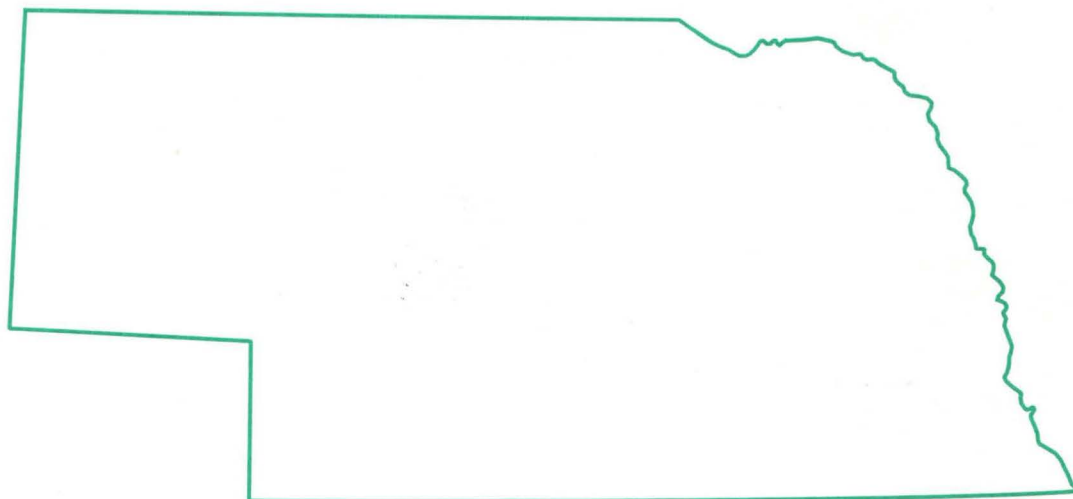
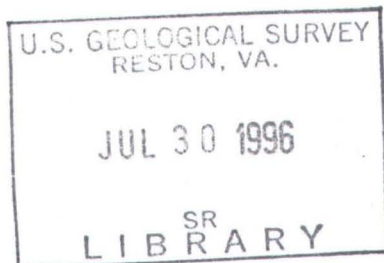


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Water Resources Data Nebraska Water Year 1995



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NE-95-1
Prepared in cooperation with the Nebraska Department of Water
Resources, the Conservation and Survey Division of the
University of Nebraska, the Nebraska Department of Environmental
Quality, and other Federal, State, and local agencies

CALENDAR FOR WATER YEAR 1995

1994

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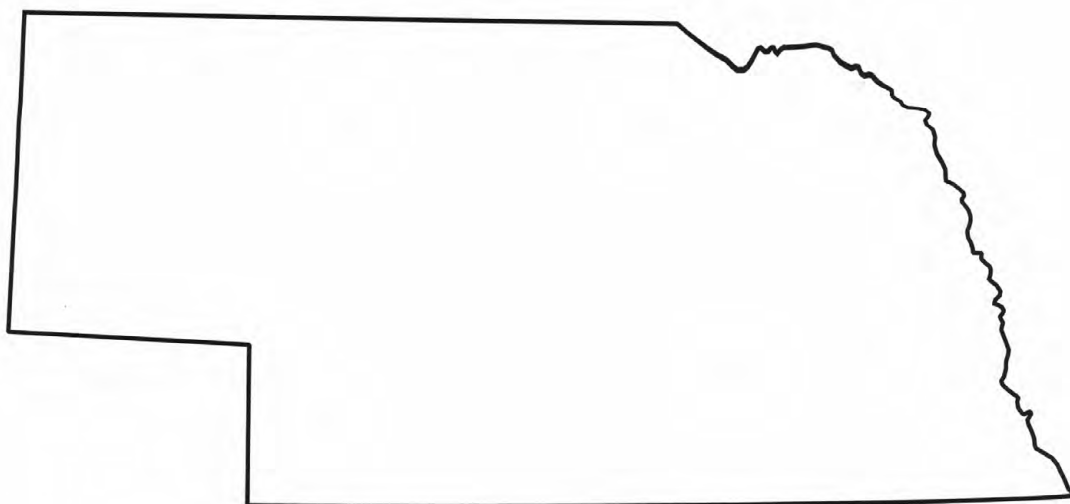
1995

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Water Resources Data Nebraska Water Year 1995

by J.A. Boochar, C.G. Hoy, and F. J. Jelinek



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NE-95-1
Prepared in cooperation with the Nebraska Department of Water
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Quality, and other Federal, State, and local agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Gordon P. Eaton, Director

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

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

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 typed, edited, and assembled the report. In addition to the authors, 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, and tabulation of the data:

G.B. Engel, P.A. Bartz, N.R. Harmon, M.C. Rowan, and G.V. Steele of the District office,
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D. E. Hitch, R.B. Swanson, D.L. Curtis, and K.A. Miller, and J.D. Miller (Twin Platte NRD),
and E. I. Richter (summer employee) of the North Platte field office.

This report was prepared in cooperation with the State of Nebraska and with other agencies under the general supervision of L.S. Weiss, District Chief, Nebraska.

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13. ABSTRACT (Maximum 200 words) Water resources data for the 1995 water year for Nebraska consists of water-quality records for records of stage, discharge, and water quality of stream; stage and contents in lakes and reservoirs; and water levels and water quality in wells. This report contains discharge records for 94 streamflow-gaging stations, 6 partial-record or miscellaneous stream-flow stations, and 2 crest-stage, partial-record streamflow stations; stage and contents record for 7 lakes and reservoirs; water-quality records for 17 streamflow-gaging stations, for 35 ungaged streamsites, and for 563 wells; and water levels for 57 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.				
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CONTENTS

v

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 or independent city, 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-----	xx
List of discontinued surface-water quality stations-----	xxvi
Introduction-----	1
Cooperation-----	1
Summary of Hydrologic Conditions-----	2
Precipitation-----	2
Streamflow-----	5
Water quality-----	6
Ground-water levels-----	7
Water use-----	10
Special networks and programs-----	12
Explanation of the records-----	13
Station identification numbers-----	13
Downstream order system-----	13
Latitude-longitude system-----	14
Records of stage and water discharge-----	14
Data collection and computation-----	14
Data presentation-----	17
Station manuscript-----	17
Data table of daily mean values-----	18
Statistics of monthly mean data-----	18
Summary statistics-----	19
Identifying estimated discharge-----	20
Accuracy of the records-----	20
Other records available-----	21
Records of surface-water quality-----	21
Classification of records-----	21
Arrangement of records-----	23
Onsite measurements and sample collection-----	23
Water temperature-----	24
Sediment-----	24
Laboratory measurements-----	24
Data presentation-----	24
Records of ground-water levels-----	25
Data collection and computation-----	25
Data presentation-----	27
Records of ground-water quality-----	27
Data collection and computation-----	28
Data presentation-----	28
Access to WATSTORE-----	29
Definition of terms-----	30
Publications on Techniques of Water-Resources Investigations-----	38
Remark codes-----	42
Station records, surface water-----	43
Discharge at partial-record stations and miscellaneous sites-----	193
Low-flow investigations-----	195
Analyses of samples collected at water-quality partial-record stations-----	197
Analyses of samples collected at miscellaneous stations-----	198
Lincoln Storm Runoff-----	198
Special Protection Areas (SPA)--Hitchcock-Red Willow Counties-----	201
Holmes Lake Inflow-----	206
North Platte Basin Ground-water/ Surface-water Interaction study-----	212

CONTENTS--Continued

	<i>Page</i>
Analyses of samples collected at miscellaneous stations--Continued	
North Platte River Basin Irrigation Drainage-----	218
Streambed Sediment Study-----	227
Station records, ground water	
Ground-water levels -----	239
Chemical analyses of ground water	
Papio-Missouri -----	268
Special Protection Areas (SPA)	
Middle Republican -----	273
Big Blue River Basin -----	297
Nemaha Basin Reconnaissance -----	305
Lower Platte South Reconnaissance -----	309
Index -----	317

ILLUSTRATIONS

Figure 1. Graph showing streamflow and precipitation data for water year 1995 and the long-term record -----	3
2. Graph showing precipitation for water years 1993, 1994, 1995, and normal for the eight National Weather Service divisions in Nebraska -----	4
3. Hydrographs of water levels in representative observation wells, water years 1994 and 1995-----	8
4. Diagram showing estimated (a) total water use in Nebraska, 1990-----	10
(b) total surface-water use in Nebraska, 1990 -----	11
(c) total ground-water use in Nebraska, 1990-----	11
5. Map showing location of active surface-water gaging stations -----	16
6. Map showing location of active surface-water quality stations-----	22
7. Map showing location of selected observation wells -----	26

TABLES

Table 1. Precipitation and departures from normal, water year 1995 -----	2
2. Selected water-quality constituents in NAWQA samples collected during periods of high and low discharges, water year 1995-----	7

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

vii

[Letter after station name designates type of data: (d) discharge, (e) elevation and/or contents, (c) chemical, (b) biological, (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-digit number.

	<i>Station number</i>	<i>Page</i>
MISSOURI RIVER BASIN		
<u>PONCA CREEK BASIN</u>		
Ponca Creek at Verdel (d) -----	4536	43
<u>NIOBRARA RIVER BASIN</u>		
Box Butte Reservoir near Hemingford (e) -----	4550	44
Merritt Reservoir near Burge (e) -----	4593	45
Niobrara River near Sparks (dc) -----	4615	46
Long Pine Creek near Riverview (dc) -----	4635	49
Keya Paha River at Wewela, SD (d) -----	4645	52
Niobrara River near Spencer (d) -----	4650	53
Niobrara River near Verdel (d) -----	4655	55
<u>BAZILE CREEK BASIN</u>		
Bazile Creek near Niobrara (d) -----	4665	56
MISSOURI RIVER:		
Lewis and Clark Lake Yankton, SD (e) -----	4670	57
Missouri River at Yankton, SD (d) -----	4675	58
MISSOURI RIVER:		
Missouri River at Sioux City, IA (d) -----	4860	60
<u>OMAHA CREEK BASIN</u>		
Omaha Creek at Homer (d) -----	6010	62
Missouri River at Decatur (d) -----	6012	63
Missouri River at Omaha (d) -----	6100	64
<u>PLATTE RIVER BASIN</u>		
North Platte River (head of Platte River) at Wyoming-Nebraska State line (dc) -----	6745	66
Lake McConaughy near Keystone (e) -----	6900	68
South Platte River:		
South Platte River at Julesburg, CO (d) -----	7640	69
South Platte River at Roscoe (d) -----	764880	71
South Platte River at North Platte (c) -----	7655	72
Tri-County Canal (1.25 mi below diversion) near North Platte (cs) -----	765698	74
Platte River near Overton (cm) -----	7680	76
Platte River near Kearney (d) -----	7702	79
Platte River near Grand Island (dcs) -----	7705	80
Wood River near Gibbon (d) -----	7715	84
Prairie Creek near Ovina (d) -----	773050	85
Silver Creek at Ovina (d) -----	773150	86
Platte River near Duncan (d) -----	7740	87
Middle Loup River (head of Loup River) at Dunning (d) -----	7755	88
Dismal River near Thedford (dcms) -----	7759	89
Dismal River at Dunning (d) -----	7765	93
South Loup River at St. Michael (dc) -----	7840	94
Sherman Reservoir near Loup City (e) -----	7842	98

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

	<i>Station number</i>	<i>Page</i>
MISSOURI RIVER BASIN--Continued		
<u>PLATTE RIVER BASIN--Continued</u>		
Middle Loup River at St. Paul (dc)-----	7850	99
North Loup River at Taylor (d)-----	7860	102
Calamus River near Harrop (d)-----	7870	103
Calamus Reservoir near Burwell (e)-----	7873	104
Calamus River near Burwell (d)-----	7875	105
North Loup River near St. Paul (dc)-----	7905	106
Loup River near Palmer (cs)-----	791150	109
Cedar River near Fullerton (dcms)-----	7920	111
Loup River Power Canal near Genoa-----	7925	114
Loup River near Genoa (d)-----	7930	115
Beaver Creek at Genoa (d)-----	7940	116
Shell Creek near Columbus (d)-----	7955	117
Platte River at North Bend (d)-----	7960	118
Platte River near Leshara (d)-----	7965	119
Elkhorn River at Ewing (d)-----	7975	120
Elkhorn River at Norfolk (d)-----	7990	121
North Fork Elkhorn River:		
North Fork Elkhorn River near Pierce (d)-----	7991	122
Elkhorn River at West Point (d)-----	799350	123
Logan Creek near Uehling (d)-----	7995	124
Maple Creek near Nickerson (dcs)-----	8000	125
Elkhorn River at Waterloo (dcms)-----	8005	128
Platte River near Ashland (d)-----	8010	131
Salt Creek at Roca (d)-----	8030	133
Salt Creek at Pioneers Boulevard at Lincoln (d)-----	803080	134
Haines Branch at SW 56th St. at Lincoln (d)-----	8030	135
Middle Creek at SW 40th St at Lincoln (d)-----	803170	136
Salt Creek at Lincoln (d)-----	8035	137
Little Salt Creek near Lincoln (d)-----	803510	138
Salt Creek at 70th St. at Lincoln (d)-----	803513	139
Stevens Creek near Lincoln (d)-----	803520	140
Salt Creek below Stevens Creek near Waverly (cm)-----	803525	141
Rock Creek near Ceresco (d)-----	803530	144
Salt Creek at Greenwood (d)-----	803555	145
Cottonwood Creek above Czechland Lake near Rescue (d)-----	803920	146
Cottonwood Creek Tributary above Dam 6B near Prague(d)----	803935	147
Wahoo Creek at Ithaca (d)-----	8040	148
Wahoo Creek at Ashland (d)-----	8047	149
Johnson Creek near Memphis (d)-----	8049	150
Platte River at Louisville (dcms)-----	8055	151
<u>WEEPING WATER CREEK BASIN</u>		
Weeping Water Creek at Union (d)-----	8065	154
MISSOURI RIVER:		
Missouri River at Nebraska City (d)-----	8070	155

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

ix

	<i>Station number</i>	<i>Page</i>
MISSOURI RIVER BASIN--Continued		
<u>LITTLE NEMAHA RIVER BASIN</u>		
Little Nemaha River at Auburn (d) -----	8115	157
MISSOURI RIVER:		
Missouri River at Rulo (d) -----	8135	158
<u>BIG NEMAHA RIVER BASIN</u>		
Big Nemaha River:		
Turkey Creek near Seneca, KS (d)-----	8140	160
North Fork Big Nemaha River at Humboldt (d) -----	8145	162
Big Nemaha River at Falls City (d)-----	8150	163
<u>KANSAS RIVER BASIN</u>		
Arikaree River (head of Kansas River) at Haigler (d)-----	8215	164
North Fork Republican River at Colorado-Nebraska State line (d) -----	8230	165
Republican River (continuation of Arikaree River):		
Buffalo Creek near Haigler (d)-----	8235	166
Rock Creek at Parks (d)-----	8240	167
South Fork Republican River near Benkelman (d) -----	8275	168
Republican River at Stratton (d)-----	8285	169
Enders Reservoir near Enders (e)-----	8320	170
Frenchman Creek at Palisade (d) -----	8340	171
Frenchman Creek at Culbertson (d) -----	8355	172
Driftwood Creek near McCook (d)-----	8365	173
Republican River at McCook (d)-----	8370	174
Red Willow Creek near Red Willow (d) -----	8380	175
Republican River at Cambridge (d)-----	8435	176
Republican River near Orleans (d)-----	8445	177
Sappa Creek:		
Beaver Creek at Cedar Bluffs, KS (d)-----	8465	178
Sappa Creek near Stamford (d) -----	8475	180
Prairie Dog Creek near Woodruff, KS (d) -----	8485	181
Republican River below Harlan County Dam (d)-----	8495	182
Courtland Canal at Nebraska-Kansas State line (d) -----	8525	183
Republican River at Guide Rock (d)-----	853020	184
Republican River near Hardy (d)-----	8535	185
Kansas River (continuation of Republican River):		
Big Blue River:		
West Fork Big Blue River near Dorchester (d)-----	8808	187
Big Blue River near Crete (d) -----	8810	188
Big Blue River at Barneston (d) -----	8820	189
Little Blue River near Deweese (d)-----	8830	190
Little Blue River near Fairbury (d) -----	8840	191
Little Blue River at Hollenberg, KS (d)-----	884025	192

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

	<i>Page</i>
<u>ADAMS COUNTY</u>	
Well 403403098244001 Local number 7N 10W 23AB -----	239
<u>BLAINE COUNTY</u>	
Well 414958100061501 Local number 22N 24W 33CA -----	239
<u>BOONE COUNTY</u>	
Well 413323098074501 Local number 18N 7W 4CA -----	240
<u>BOX BUTTE COUNTY</u>	
Well 420945102551501 Local number 25N 48W 4DDD -----	240
<u>BROWN COUNTY</u>	
Well 423307099494501 Local number 30N 21W 19CC -----	241
<u>BUFFALO COUNTY</u>	
Well 404618198504401 Local number 9N 14W 1DC -----	241
Well 404345098560001 Local number 9N 14W 19DD -----	242
<u>BUTLER COUNTY</u>	
Well 411420097173002 Local number 15N 1E 27DD2 -----	242
<u>CHASE COUNTY</u>	
Well 403220101384001 Local number 7N 38W 28CC -----	243
Well 403235101395501 Local number 7N 38W 29CBB -----	243
<u>CHERRY COUNTY</u>	
Well 423205100321501 Local number 30N 28W 36AAA -----	244
<u>COLFAX COUNTY</u>	
Well 412810097054501 Local number 17N 3E 4CC -----	244
<u>DAWES COUNTY</u>	
Well 424100103243501 Local number 31N 52W 3DC -----	245
<u>DAWSON COUNTY</u>	
Well 404949099445701 Local number 10N 21W 18DDD -----	245
<u>DUNDY COUNTY</u>	
Well 400155101521302 Local number 1N 40W 29BB2 -----	246
<u>FILLMORE COUNTY</u>	
Well 402504097432201 Local number 5N 4W 12BDC -----	246
Well 403800097300701 Local number 8N 2W 26AD -----	247
<u>GARFIELD COUNTY</u>	
Well 414718099083201 Local number 21N 16W 14CB -----	247

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

xi

Page

GOSPER COUNTY

Well 403626099451401 Local number 7N 21W 6BC ----- 248

HALL COUNTY

Well 405315198304302 Local number 11N 11W 25CC2 ----- 248

HAMILTON COUNTY

Well 404836097584101 Local number 10N 6W 27ACAA ----- 249

Well 405514097573901 Local number 11N 6W 13CB ----- 249

HARLAN COUNTY

Well 400920099215501 Local number 2N 18W 9BCC ----- 250

HOLT COUNTY

Well 421605098203001 Local number 27N 9W 34DA ----- 250

Well 423148098300601 Local number 30N 10W 32DAA ----- 251

Well 423730098560001 Local number 31N 14W 27DDD ----- 251

KEARNEY COUNTY

Well 402625098594501 Local number 6N 15W 34DC ----- 252

Well 403354098553702 Local number 7N 14W 20BA2 ----- 252

KIMBALL COUNTY

Well 411416103361101 Local number 15N 55W 26CCC ----- 253

LANCASTER COUNTY

Well 403929096401001 Local number 8N 7E 18DDB ----- 253

Well 403833096385501 Local number 8N 7E 20DDA ----- 254

Well 404706096413001 Local number 10N 6E 36CDD ----- 254

MORRILL COUNTY

Well 414058103054001 Local number 20N 50W 28BBC ----- 255

NUCKOLLS COUNTY

Well 400240098111301 Local number 1N 8W 23AB ----- 255

PHELPS COUNTY

Well 403123099261501 Local number 6N 19W 2AA ----- 256

PLATTE COUNTY

Well 412955097192001 Local number 18N 1E 28CD ----- 256

SALINE COUNTY

Well 403855097072501 Local number 8N 3E 19ADA ----- 257

SARPY COUNTY

Well 410308096190701 Local number 13N 10E 32DBBA ----- 257

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

Page

SAUNDERS COUNTY

Well 410558096210601	Local number 13N 9E 13ADBA -----	258
Well 410428096211001	Local number 13N 9E 24DDCC -----	258
Well 410334096211601	Local number 13N 9E 36ABAA -----	259
Well 410527096203201	Local number 13N 10E 18CDBD -----	259
Well 410427096202501	Local number 13N 10E 19CDDD -----	260
Well 410340096202201	Local number 13N 10E 30CDDA -----	260
Well 410401096195201	Local number 13N 10E 30DAAB -----	261
Well 410314096201101	Local number 13N 10E 31ACDB -----	261
Well 410303096192901	Local number 13N 10E 32CABC -----	262
Well 410307096193801	Local number 13N 10E 32CBAB -----	262
Well 411005096281502	Local number 14N 8E 24ACD2-----	263

SCOTTS BLUFF COUNTY

Well 415325103392801	Local number 22N 55W 11DDC -----	263
----------------------	----------------------------------	-----

SEWARD COUNTY

Well 405406097115001	Local number 11N 2E 21DD -----	264
----------------------	--------------------------------	-----

SHERIDAN COUNTY

Well 423034102415001	Local number 29N 46W 10AA -----	264
----------------------	---------------------------------	-----

THOMAS COUNTY

Well 415845100334001	Local number 23N 28W 9DA-----	265
----------------------	-------------------------------	-----

VALLEY COUNTY

Well 412955099123201	Local number 18N 16W 30CC -----	265
----------------------	---------------------------------	-----

WEBSTER COUNTY

Well 400423098314001	Local number 1N 11W 11AB -----	266
----------------------	--------------------------------	-----

YORK COUNTY

Well 404618097482201	Local number 9N 4W 5CCC-----	266
Well 405305097351503	Local number 11N 2W 31BA3-----	267

DISCONTINUED SURFACE-WATER GAGING STATIONS

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 preceeding the number has been left off as well as the 00 following 4-digit number.

Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
White River Basin			
White River near Crawford (d)	4435	1163	* 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	1400	1947-94
Niobrara River below Box Butte Reservoir (d)	4555	1460	1947-91
Niobrara River near Dunlap (d)	4559	1580	1931-42, 1962-71
Niobrara River near Hay Springs (d)	4565	1790	1950-64
Niobrara River near Colclessner (d)	4570	2220	1948
Niobrara River near Gordon (d)	4575	4290	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	5570	1948-57
Snake River at Doughboy (d)	459175	405	1982-93
Snake River above Merritt Res. (d)	4592	440	1963-81
Snake River near Burge (d)	4595	646	1947-94
Gordon Creek near Simeon (d)	4600		* 1948

WATER RESOURCES DATA - NEBRASKA, 1995

DISCONTINUED SURFACE-WATER GAGING STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Niobrara River Basin--continued			
Niobrara River near Valentine (d)	4605	6160	1901-06, 1928-32
Minnechaduzza Creek near Kilgore (d)	4609	85.0	1958-74
Minnechaduzza Creek at Valentine (d)	4610	390	1948-93
Niobrara River near Norden (d)	4620	8390	1953-83, 1986
Plum Creek at Meadville (d)	4625	536	1948-75, 1977-94
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	9810	1986-91
Keya Paha River near Naper	4649	1690	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
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 at WY-NE State Line (d)	6771		1969-70
Horse Creek near Lyman (d)	6775	1707	1931-94
Sheep Creek near Morrill (d)	6780	362	1932-91

DISCONTINUED SURFACE-WATER GAGING STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Platte River Basin--continued			
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	24300	1920-94
Tub Springs near Scottsbluff (d)	6800		1949-79
North Platte River at Scottsbluff (d)	6805	24500	1887-1900, 1912, 1917-18
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	24700	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		1932-79
North Platte River at Bridgeport (d)	6845	25300	1917-91
Pumpkin Creek near Bridgeport (d)	6850	1020	1932-91
North Platte River at Broadwater (d)	6855		1917-23
North Platte River at Lisco (d)	6860	26700	1932-94
North Platte River at Oshkosh (d)	6865	31300	1916-17, 1928-60
Blue Creek near Lewellen (d)	6870	1190	1931-91
North Platte River at Lewellen (d)	6875	28600	1941-91
North Platte River at Belmar (d)	6880	29100	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	29400	1942-94
North Platte River near Sutherland (d)	6910	29800	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	30900	1895-1994
Lodgepole Creek at Bushnell (upper station)	7620	1090	1931-32
Lodgepole Creek at Bushnell (d)	7625	1350	1932-91

DISCONTINUED SURFACE-WATER GAGING STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Platte River Basin--continued			
Lodgepole Creek at Sidney (d)	7630	2190	1931-32
Lodgepole Creek at Ralton (d)	7635	3307	1931, 1951-79
South Platte River at Big Springs (d)	7645	23200	* 1903
South Platte River at Paxton (d)	7650	24000	1923-24, 1931-33, 1937-70
South Platte River at North Platte (d)	7655	24300	1917-94
Platte River at Brady (d)	7660	56200	1939-91
Platte River near Cozad (d)	7665	56500	1938-91
Platte River near Lexington (d)	7670	57300	1902-06, 1916-24
Plum Creek near Smithfield (d)	7675	229	1946-53, 1969-75
Platte River near Overton (d)	7680	56300	1915-94
Buffalo Creek near Darr (d)	7685	63.0	1947-69
Buffalo Creek near Overton (d)	7690	175	1949-58
Elm Creek near Overton (d)	7695	31.0	1947-58
Platte River near Odessa (d)	7700	58100	1938-91
North Dry Creek near Kearney (d)	770190		1969-71
Platte River near Grand Island (South Channel) (d)	770478		1984-87
Wood River near Riverdale (d)	7710	379	1946-73
Wood River near Alda (d)	7720	599	1954-94
Dry Creek near Cairo (d)7730	25		1949-53
Prairie Creek near Silver Creek (d)	7735	406	1949-53
Middle Loup River near Mullen (d)	7745	1120	1947-48
Middle Loup River near Seneca (d)	7750	1140	1948-53
Dismal River near Gem (d)	7760	1360	1947-53
Middle Loup River near Milburn (d)	7770	3690	1952-56, 1958 1960-64
Middle Loup River at Walworth (d)	7775	4650	1941-60
Middle Loup River at Sargent (d)7780	4480		1937-38, 1953-70
Middle Loup River near Comstock (d)	7785	4960	* 1937
Middle Loup River at Arcadia (d)	7790	5040	1937-93
Middle Loup River at Loup City (d)	7795	4860	1936-38, 1949-56
Middle Loup River at Rockville (d)	7800	5310	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)	7815		1937-38
South Loup River near Cumro (d)	7820	1340	1946-53
South Loup River at Ravenna (d)	7825	1660	1941-58, 1968-75

DISCONTINUED SURFACE-WATER GAGING STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Platte River Basin--continued			
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	1890	1945-51
North Loup River at Burwell (d)	7865	2510	1953-60
North Loup River near Burwell (d)	7880		1937-38, 1952-60
North Loup River at Ord (d)	7885	3760	1952-94
Mira Creek near North Loup (d)	788988	65.8	1980-93
North Loup River at Scotia (d)	7890	3960	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	1060	1960-65
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	15200	1895-1915, 1931, 1934-78
Shell Creek at Newman Grove (d)	7950	122	1949-67
Platte River near Fremont (d)	7965		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	2200	1931-93
Elkhorn River at Meadow Grove (d)	7988	2500	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

DISCONTINUED SURFACE-WATER GAGING STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Platte River Basin--continued			
Salt Creek subwatershed No. 3 near Sprague	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
Silver Creek at Ithaca (d)	8045	80.0	1950-58
Salt Creek near Ashland (d)	8050	1640	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			
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	4880	1947-94
Republican River at Max (d)	8280	7740	1928-45
Muddy Creek at Stratton (d)	828490	157	1978
Swanson Lake near Trenton (e)	8290	8620	1953-94
Republican River at Trenton (d)	8295	8340	1947-93
Republican River at Culbertson (d)	8300	8450	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	1050	1941-94
Frenchman Creek near Enders (d)	8325	1140	1947-93
Frenchman Creek near Hamlet (d)	8335	1270	1929-56
Stinking Water Creek near Wauneta (d)	8345	1330	1941-50
Stinking Water Creek near Palisade (d)	8350	1500	1950-94
Hugh Butler Lake near McCook (e)	837390	730	1961-94

DISCONTINUED SURFACE-WATER GAGING STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Kansas River Basin--continued			
Little Blue River near Alexandria (d)	883570	607	1980-92
Blackwood Creek near Culbertson (d)	8360	320	1946-86
Red Willow Creek abpve Hugh Butler Lake (d)	8373	582	1961-94
Red Willow Creek near McCook (d)	8375	740	1941-47, 1961-93
Dry Creek at Bartley (d)	838550	42	1960-93
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-
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	1480	1937-72
Beaver Creek near Beaver City (d)	8470	2080	1937-94
Harlan County Lake near Republican City (e)	8490	20750	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	21020	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	22040	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	1107	1954-94
Turkey Creek near Wilber (d)	8812	461	1960-94
Big Blue River at Beatrice (d)	8815	3900	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	1568	1960-72, 1975-92
Big Sandy Creek at Alexandria (d)	883940	607	1980-93

* Partial year only

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS

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. The asterik (*) denotes a current continuous-record streamflow station.

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
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

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Bow Creek Basin			
West Bow Creek near Fordyce	478520	52.8	1964-65, 1968-78
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

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Platte River Basin--continued			
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
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

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Platte River Basin--continued			
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
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

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
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
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	8341	17.9	1970-78
Bobtail Creek near Palisade	8351	41	1966-78
Ash Creek near Red Willow	8371	22	1966-78
Coon Creek at Indianola	8382	69	1960-93
Dry Creek at Bartley	838550	42	1960-93
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	20800	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

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Drainage area (mi²)</i>	<i>Period of record (water years)</i>
Kansas River Basin--continued			
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	223	1961-68
Elm Creek at Amboy	8520	39.2	1954-78
Beaver Creek near Rosemont	8531	.752	1971-78
Republican River at Superior	8534	22300	1971-75, 1977
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 Ohioa	883955	11.6	1968-78
Dry Branch tributary near Fairbury	884005	4.51	1968-78

WATER RESOURCES DATA - NEBRASKA, 1995
DISCONTINUED SURFACE-WATER QUALITY STATIONS

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 preceding the number has been left off as well as the 00 following a 4-digit number.

Type of record:

c	chemical
m	microbiological
s	sediment
t	temperature

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
White River Basin			
White River at Crawford	4440	* 1957	c
White River near Whitney	4450	1969-72	c m t
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 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 Colclessner	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 at Valentine	4605	* 1948	c
Minnehaduzza Creek at Valentine	4610	* 1948-49	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Niobrara River Basin--continued			
** 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
South Branch Verdigre Creek near Royal	465650	* 1967	c
Verdigre River near Verdigre	4657	1948-49	c
		1948-50	s
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

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
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 S of Henry	6750	* 1938	c
South Horse Creek lateral at WY-NE State Line near Lyman	6771	* 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 1970-73	c t
Lane Drain near Lyman	677550	* 1964	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
Sheep Creek near Morrill	6780	* 1964	c
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	884450	* 1964	c

WATER RESOURCES DATA - NEBRASKA, 1995

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
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	1970-81	c t
		1970-94	ms
North Platte River at Oshkosh	6865	1951	c
Kingsley Reservoir (McConaughy Lake)	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
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	* 1948	c
		* 1948-51	s
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
Buffalo Creek near Darr	7685	* 1948	c
Buffalo Creek near Overton	7690	* 1947	c
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
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

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
Unnamed Drain 2.3 miles SE of Platte River bridge S of Odessa	770002	* 1968	c
North Dry Creek near Kearney	770190	1969-71	c m t
North Dry Creek 2.0 miles SW of Platte River bridge S of Kearney	770195	* 1968	c
Whiskey Slough 3.2 miles SW of Platte River bridge S 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
Crooked Creek Drain 0.8 mile NW of Newark	770250	* 1968	c
Lost Creek 7.7 miles NE of Axtell	770340	* 1968	c
** Platte River near Grand Island	7705	1972-80	t
		1972-89	c m
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	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
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	* 1965-66	c
Middle Loup River near Seneca	7750	* 1949-51	s
** Middle Loup River at Dunning	7755	* 1947-66	c
		1950-52, 1954, *1977	s
		1950-56, 1966-89	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

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
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
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

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
Unnamed Creek south of Elba	790255	1977-83	c 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
** 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
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

WATER RESOURCES DATA - NEBRASKA, 1995

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
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
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
		* 1976	c t
Middle Fork Maple Creek near Schuyler	7999	* 1968	c
** Maple Creek near Nickerson	8000	* 1968	c
Bell Creek at Arlington	800250	* 1968-69	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
** Platte River near Ashland	8010	* 1946, 1950-53, *1969	c
East inlet to Olive Creek Lake near Kramer	801148	* 1967	c
Olive Creek near Kramer	801150	* 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
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
South tributary to Yankee Hill Reservoir near Denton	803069	* 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	813114	* 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

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
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 1951-54	c m t s
Dead Man's Run at 66th Street at Lincoln	803501	1983	c t
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 1971-72, 1974-77	c 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 1971-72, 1981-84 1972-76	c m t 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
latte River near South Bend	805010	* 1960-65 1960, 1965, 1970	c 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 * 1971	c m s t c m t

WATER RESOURCES DATA - NEBRASKA, 1995

xxxvii

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Platte River Basin--continued			
Platte River near Plattsmouth	805550	1969-72	cmt
Fourmile Creek near Plattsmouth	805565	1974-81	c m s t
Platte River at La Platte	805570	1974	c m t
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	

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>	
Kansas River Basin--continued				
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	
Frenchman Creek near Enders	8325	1947-49	c	
		1946-47, 1962, 1964		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 at Wauneta	8331	1962		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
Dry Creek near Curtis	8405	* 1953-56	c	
		1951-58		s
Medicine Creek above Harry Strunk Lk	8410	* 1951-56	c	
		1953-58		t
		1951-58		s
		1951-57		t
		1946-49, 1951-57		s

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Kansas River Basin--continued			
** Republican River at Cambridge	8435	1947-53	c
		1951-53	s
Turkey Creek near Edison	8442	* 1968	c
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 Lk	8415	* 1951-56	c
		1951-57	s
Harry Strunk Lake	8420	1952-56	c
Medicine Creek below Harry Strunk Lk	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
West Fork Big Blue River below Hastings	805555	* 1968-69	c
		1973-78	c m t

WATER RESOURCES DATA - NEBRASKA, 1995

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Kansas River Basin--continued			
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
** Big Blue River at Barneston	8820	1967-68	
		1981-93	c m t

WATER RESOURCES DATA - NEBRASKA, 1995

xli

DISCONTINUED SURFACE-WATER QUALITY STATIONS--continued

<i>Station name</i>	<i>Station number</i>	<i>Period of record (water years)</i>	<i>Type of record</i>
Kansas River Basin--continued			
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 1979-81 1953, 1955-61	c m t 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	* 1968-69	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 1952-63, *1960-61, * 1968	s 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.

*** Surface-water gaging station run by Nebraska USGS.

**** Current reservoir stations.

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 94 streamflow-gaging stations, for 6 partial-record or miscellaneous streamflow stations, and for 2 crest-stage, partial-record streamflow stations; (2) stage and contents for 7 lakes and reservoirs; (3) water-quality records for 17 streamflow-gaging stations, for 35 ungaged streamsites, and for 563 wells; and (4) water-level records for 57 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 contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only 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. A limited number of CD-ROM discs are available for sale by the U.S. Geological Survey, Information Services, MS 517, Box 25046, Denver, CO 80225 for water years 1990-94. Starting from water year 1995, the CD-ROM will no longer be available.

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 Water Resources, J. Michael Jess, Director; Conservation and Survey Division, University of Nebraska-Lincoln, Perry B. Wigley, Director; Nebraska Natural Resources Commission, Dayle Williamson, Director; Big Blue River Compact Administration; City of Lincoln; City of Omaha; 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 23 streamflow-gaging stations and 2 crest-stage gages, and by the U.S. Bureau of Reclamation in collecting records for 1 streamflow-gaging station, 1 lake station, and in providing elevations or capacity tables for 5 reservoir stations.

The following organizations aided in collecting records: Central Nebraska Public Power and Irrigation District, Nebraska Public Power District, and Loup River Public Power District.

WATER RESOURCES DATA - NEBRASKA, 1995

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow, chemical quality of streamflow, and ground-water levels are directly related to precipitation. The relation of these hydrologic characteristics to precipitation during water year 1995 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, for the eight National Weather Service divisions in Nebraska (fig. 1) are listed in table 1. Precipitation and departures from normal are shown for each quarter of the year to emphasize temporal as well as spatial variations of precipitation during water year 1995.

The precipitation totals for each division in Nebraska during water year 1995, 1994, 1993, and normal precipitation are shown in figure 2. Precipitation during water year 1995 was generally greater-than-normal.

All divisions showed greater-than-normal precipitation during the first and third quarters of water year 1995. Two divisions (North Central and Northeast) also showed greater-than-normal precipitation during the second and fourth quarters. Two divisions (Central and Southwest) showed greater-than-normal precipitation during the second quarter but less-than-normal precipitation during the fourth quarter. Because of the reduced precipitation during the last quarter, the East Central division actually had less-than-normal precipitation for the water year.

Table 1. -- Precipitation and departures from normal, water year 1995 [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]

National Weather Service division	Precipitation											
	First quarter (October-December)			Second quarter (January-March)			Third quarter (April-June)			Fourth quarter (July-September)		
	Normal	Water year 1995	Departure	Normal	Water year 1995	Departure	Normal	Water year 1995	Departure	Normal	Water year 1995	Departure
Panhandle	1.80	4.58	2.78	1.77	1.33	-0.44	7.80	12.18	4.38	5.39	4.43	-0.96
North Central	2.59	3.69	1.10	2.34	2.89	.55	9.03	14.21	5.18	7.68	7.98	.30
Northeast	3.60	3.94	0.34	3.10	3.85	.75	10.48	13.00	2.52	8.66	11.26	2.60
Central	3.05	4.31	1.26	2.77	3.30	.53	10.12	13.35	3.23	8.48	5.95	-2.53
East Central	4.40	5.11	.71	3.46	3.45	-.01	11.20	12.35	1.15	10.11	6.58	-3.53
Southwest	2.17	4.53	2.36	2.11	2.14	.03	8.58	10.98	2.40	6.72	5.50	-1.22
South Central	2.93	5.04	2.11	2.70	2.66	-.04	9.86	13.30	3.44	8.85	6.21	-2.64
Southeast	4.62	5.48	.86	3.68	3.66	-.02	11.02	14.68	3.66	11.02	8.57	-2.45

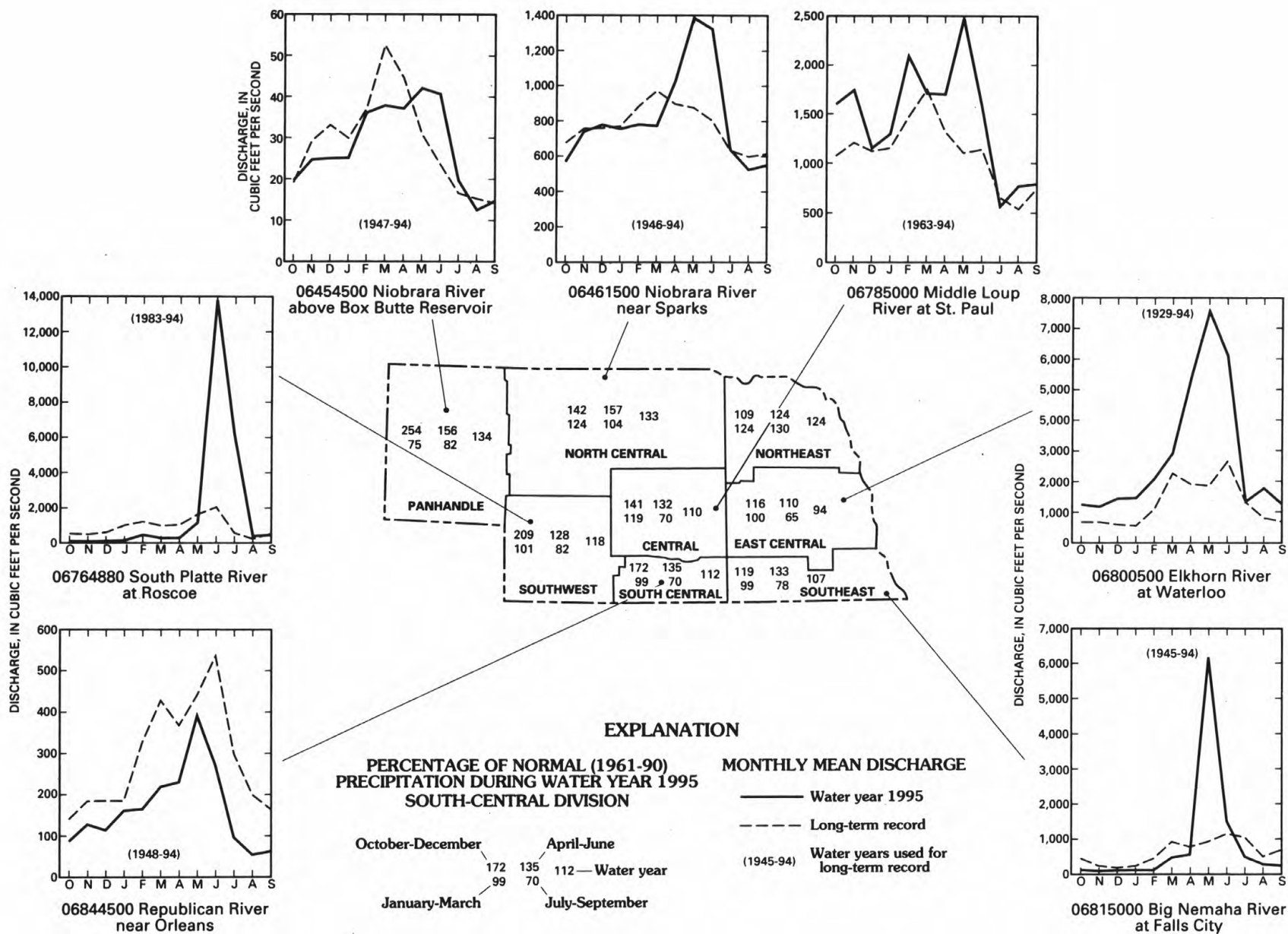


Figure 1.--Streamflow and precipitation data for water year 1995 and the long-term record.

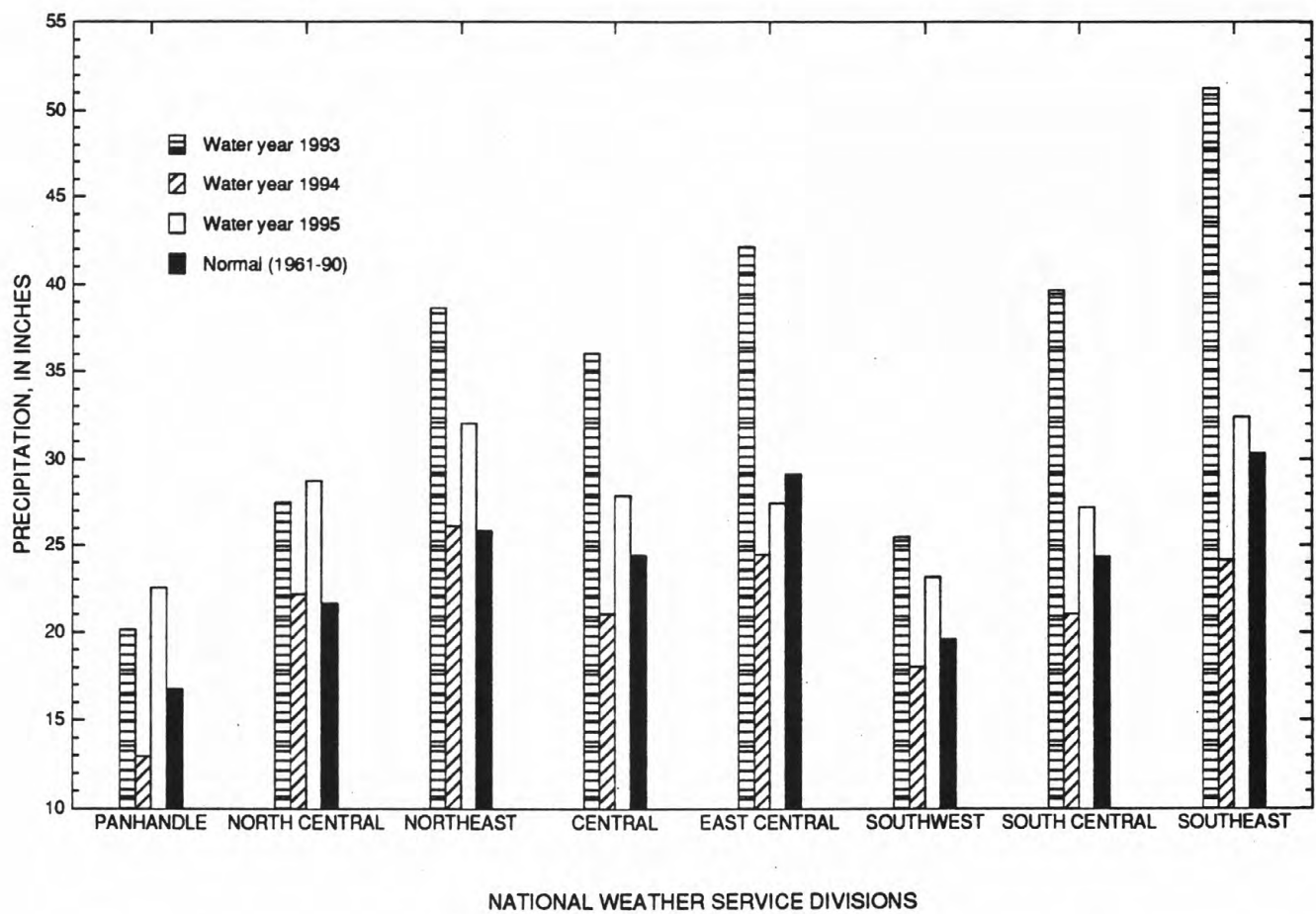


Figure 2.--Precipitation for water years 1993, 1994, 1995, and normal for the eight National Weather Service divisions in Nebraska.

Streamflow

Monthly mean discharges during water year 1995 and long-term monthly mean discharges at representative streamflow-gaging stations are shown in figure 1. The period of record used for the long-term mean at some stations is from the completion of the last known storage structure or from the latest change in streamflow regulation upstream from the gage. The individual graphs demonstrate the varied streamflow conditions in the State during water year 1995.

Flows for station 06844500, Republican River near Orleans, in the South Central division, were less than the long-term means for the entire water year. The South Central division received only slightly greater-than-normal amounts of precipitation during the water year and much of the flow for this station is regulated by upstream reservoirs.

Station 06764880, South Platte River at Roscoe, in the Southwest division, shows smaller monthly means than the long-term means for the first 8 months of the water year. This station receives a good part of its flow from the South Platte River Basin in the Rocky Mountains. A decrease in snowmelt accounted for the smaller monthly means during the first 8 months. Greater-than-normal precipitation during the third quarter accounted for more than six times the long-term mean for June.

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. Flows were generally less than the long-term means for the first 7 months of the water year. The increases in February and March were due to snowmelt runoff. Flows were greater than the long-term means starting in May due to increased precipitation, and were considerably smaller in July because precipitation was less-than-normal during the fourth quarter.

Flows for station 06461500, Niobrara River near Sparks, in the North Central division, were slightly lower than the long-term mean during most of the first quarter of the water year. Flows were actually increasing during this time, because of greater-than-normal precipitation, but remained smaller than the long-term means. Flow remained steady, though less than the long-term mean during the second quarter. Precipitation during January and February was less-than-normal but greater-than-normal during March, which accounted for the increase in flow. This increase continued into the third quarter, when precipitation almost doubled during April and more than doubled during May. Precipitation was less-than-normal in June and during July and August of the fourth quarter, which accounted for the decrease in flow during the latter part of water year 1995. Greater-than-normal precipitation during September kept the flow slightly higher than August for the remainder of the water year.

Station 06785000, Middle Loup River at St. Paul, is located near the eastern edge of the Sandhills region of the State, where most of the flow is derived from ground-water discharge. Flow, generally, is more uniform and extremes in runoff are not as great as for other regions of the State. However, during water year 1995, increased precipitation in the Central division during the first quarter and the first two months of the third quarter accounted for greater-than-normal flow at this station. This division recorded more than twice the normal amount of precipitation during May.

Station 06800500, Elkhorn River at Waterloo, in the East Central division of the State, showed streamflow greater than the long-term mean for most of the water year. Although the East Central division received less-than-normal precipitation during water year 1995, much of the drainage area of the Elkhorn River lies in the Northeast division, which received greater-than-normal amounts of precipitation during the water year.

Station 06815000, Big Nemaha River at Falls City, showed smaller monthly means compared with the long-term means for the first and second quarters of the water year. This station is located in the Southeast division, which received slightly greater-than-normal amounts of precipitation during that time. The low flow was a carry-over from the very low flow during most of water year 1994. Flow started to increase in April as a result of greater-than-normal amounts of precipitation in April and continued to increase in May when precipitation more than doubled the normal. Falls City recorded more than 9 inches of precipitation in May as a result of heavy storms, more than two times the amount of normal precipitation for May. Flow started decreasing after May due to decreased precipitation in the Southeast division.

Water Quality

The National Water-Quality Assessment (NAWQA) Program is a long-term multidisciplinary program that seeks to describe the status and trends of water quality in the Nation. The program focuses on the integration of physical, chemical, and biological information about the Nation's water resources, and the human factors affecting those water resources. It also assesses the quality of surface and ground water that affects 60 to 70 percent of the Nation's water use. This is accomplished by investigative activities in 60 study units geographically distributed throughout the Nation and representing large watersheds and aquifer systems.

Investigations are underway in two-thirds of the NAWQA study units. Two units include parts of Nebraska: Central Nebraska Basins Study Unit, which lies entirely in Nebraska; and South Platte Study Unit, which lies partially in Nebraska. Study of these units began in 1991. The program currently operates eight Basic Fixed Site (BFS) monitoring stations in the State, where water-quality information is collected on a regular basis.

These fixed sites are:

06765500 South Platte River at North Platte,
06765698 Tri-County Canal 1.25 mi. below Diversion,
06770500 Platte River near Grand Island,
06775900 Dismal River near Thedford,
06791150 Loup River at Palmer,
06800000 Maple Creek near Nickerson,
06800500 Elkhorn River at Waterloo, and
06805500 Platte River at Louisville.

This report includes field parameters, major ions, nutrients, and dissolved organic carbon concentrations data collected at these sites. Data, including trace elements, pesticides, industrial compounds, bed and inorganic and organic fish tissue contaminants, biological habitat, and geomorphological characteristics, will be published separately.

Selected water-quality constituents from four of the basic fixed sites are listed in table 2. The constituents listed are from samples collected during periods of high and low discharges and, in general, show the effect of streamflow on concentration.

Generally, the concentration of dissolved solids (and major ions) in streams is related inversely to streamflow. High streamflows resulting from snowmelt and rainfall runoff have smaller dissolved-solids concentrations per unit volume, whereas low 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 is recognized as a major factor in growth of aquatic plants. The presence of excessive nitrogen concentrations, commonly resulting from application of agricultural fertilizers, can result in biological enrichment from algae and other aquatic plant growth. Dissolved oxygen in streams sustains most aquatic organisms and is an important constituent that allows for the purification of wastes. Suspended-sediment concentration is directly related to turbidity and generally increases with stream discharge as a result of eroded sediment transported by runoff.

Table 2.--Selected water-quality constituents in NAWQA samples collected during periods of high and low discharges, water year 1995

[mi², square miles; ft³/s, cubic feet per second; μ s/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; --, not determined]

Station name	Drainage area (mi ²)	Discharge (ft ³ /s) (month)		Specific conductance (μ s/cm)	Solids, residue, dissolved, (mg/L)	Nitrogen, organic total as N (mg/L)	Dissolved oxygen (mg/L)	Sediment suspended (mg/L)
		High	Low					
Platte River near Grand Island	57,650	15,600 (Jun.)		970	681	0.80	6.8	802
			1,360 (Mar.)	916	627	.67	10.3	74
Dismal River near Thedford	966	245 (Jun.)		190	164	.58	8.2	---
			210 (Nov.)	180	155	.20	10.8	435
Elkhorn River at Waterloo	6,900	18,800 (Jun.)		383	238	---	6.2	6,120
			1,380 (Jul.)	546	345	1.90	11.5	397
Platte River at Louisville	85,800	47,700 (Jun.)		412	307	2.80	6.8	2,060
			3,740 (Sep.)	664	471	1.50	6.8	657

Ground-Water Levels

Water-level changes during water year 1995 were determined from a statewide network of observation wells measured by 36 Federal, State, and local agencies. The network consists of more than 3,900 wells measured annually, semiannually, or monthly and 109 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 pumped. Water-level fluctuations in representative observation wells located in various parts of the State are shown in figure 3.

Although precipitation generally was greater than the 30-year normal for Nebraska for water year 1995, precipitation during the three most critical months of the 1995 irrigation season (June, July, and August) was less than normal except for two divisions: the Panhandle in June and the Northeast division in August. Precipitation during April and May in the third quarter was greater than normal in all divisions, providing significant amounts of recharge to aquifers. Ground-water levels reached a peak in June, then started declining when precipitation fell below normal in June and July during the fourth quarter in all but two divisions. Water levels in 13 wells with continuous recorders of the 55 observation wells published in this report had an average water-level decrease of 0.13 foot from the end of water year 1994 to the end of water year 1995.

The hydrograph for the observation well in Seward County (fig. 3) is representative of water-level fluctuations that occurred in the east-central part of the State during water years 1994 and 1995. The water level in this well was 3.32 feet lower at the end of water year 1995 than at the end of water year 1994. This decrease is typical of most wells in the east-central region of the State and probably can be attributed to the decreased precipitation and increased ground-water irrigation during the growing season.

Throughout much of the Central and South Central divisions of Nebraska, precipitation during the first month of the growing season (April) was slightly above normal and more than double the normal during the second month (May). The hydrograph for the Buffalo County well (fig. 3) is generally representative of wells in central and south-central Nebraska and shows rising water levels until June, and falling water levels the remainder of the water year. At the end of water year 1995, the water level in the Buffalo County well was 1.20 feet lower than at the end of water year 1994. This probably can be attributed directly to increased ground-water irrigation during the growing season of water year 1995, and to the less-than-normal amount of precipitation that fell from June through September 1995.

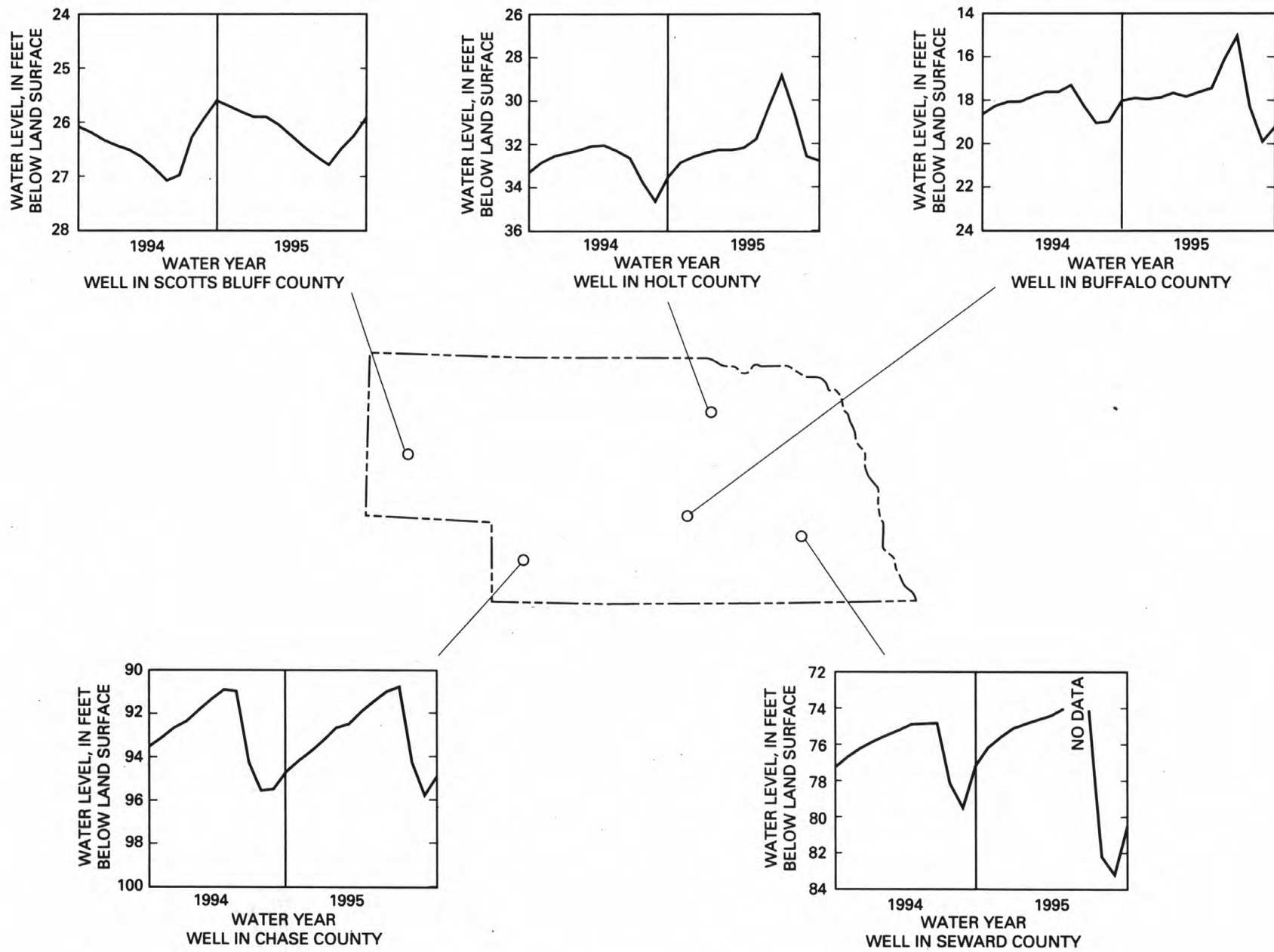


Figure 3.--Water levels in representative observation wells, water years 1994 and 1995.

In the Southwest division of the State, precipitation during the water year was much greater than normal. Water levels in the southwestern part of Nebraska were similar to water levels in the Central and South Central divisions of Nebraska. Water-level fluctuations shown for an observation well in Chase County (fig. 3) are representative of those that occurred in irrigated areas in the southwestern part of the State during water years 1994 and 1995. The hydrograph shows that the water level at the end of water year 1995 was 0.24 foot lower than at the end of water year 1994.

Precipitation in the North Central and Northeast divisions of Nebraska was greater than normal during the first two months of the growing season of water year 1995 (April and May) resulting in greater-than-normal recharge to surficial aquifers. The hydrograph for an observation well in Holt County (fig. 3) is representative of water-level fluctuations that occurred in North Central Nebraska during water years 1994 and 1995. This hydrograph shows that water levels recovered during water year 1995 and that ground-water withdrawals for irrigation began later in 1995 than in 1994. The water level in this well at the end of water year 1995 was 0.78 foot higher than at the end of water year 1994.

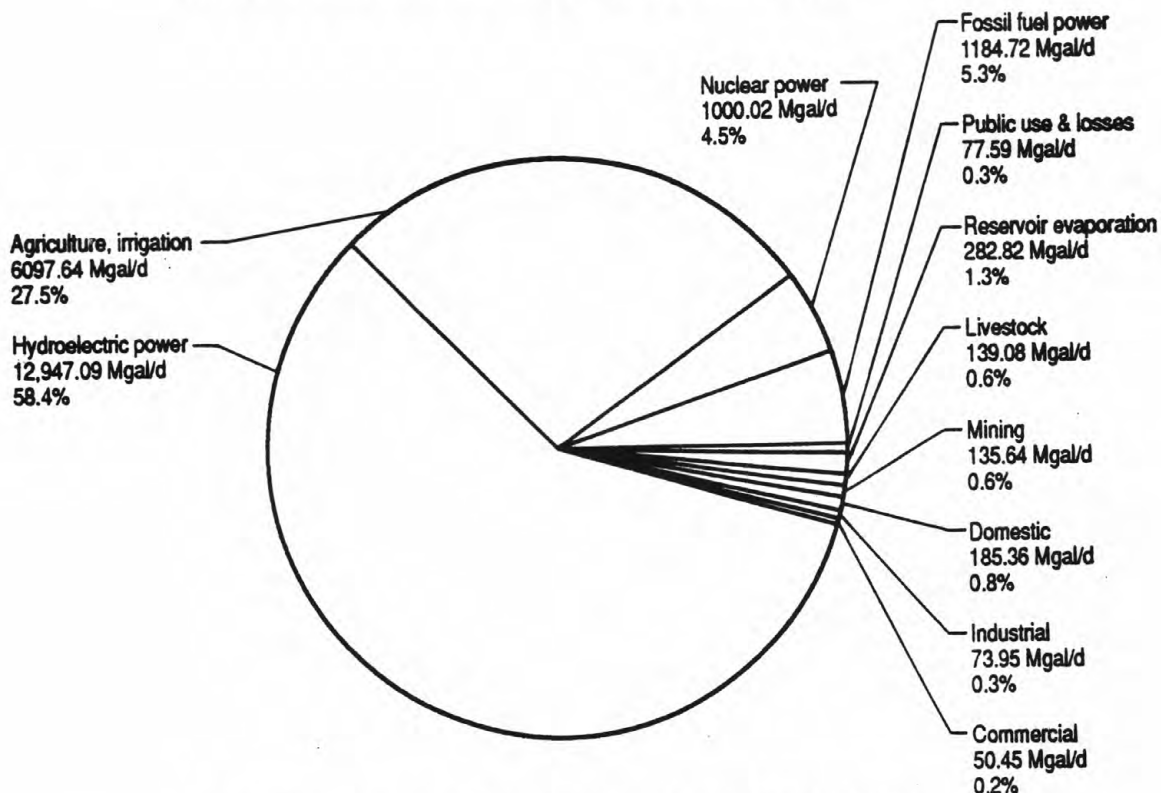
In areas of Nebraska where ground water is used only for domestic and stock supplies, most water-level fluctuations are caused by variations in natural recharge to and discharge from the aquifers. Commonly, water levels rise during the fall and winter months when recharge from precipitation exceeds discharge 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. The hydrograph for the observation well in Scotts Bluff County (fig. 3) shows these annual fluctuations during water year 1995. The decline during the growing season can be attributed to smaller amounts of precipitation received during the growing season. The water level in the Scotts Bluff County well at the end of water year 1995 was 0.31 foot lower than at the end of water year 1994.

WATER USE

General water-use facts for the State of Nebraska for the year 1990 are listed below. Water-use information is collected and published every 5 years.

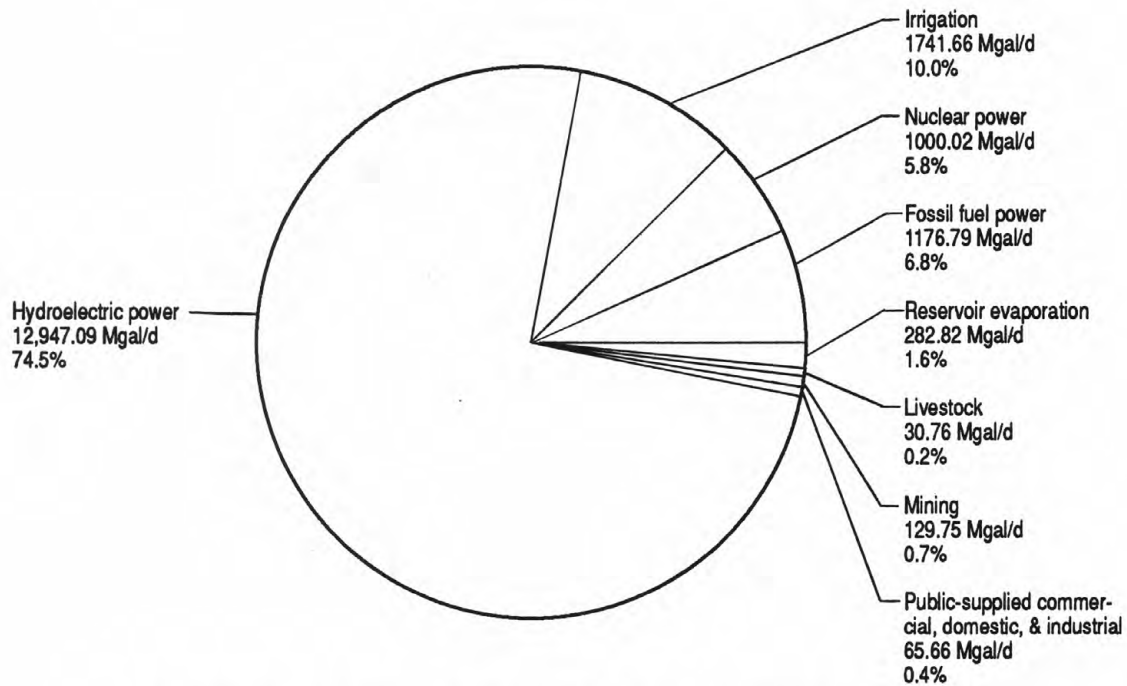
- Total water use in Nebraska was 22,174.36 million gallons per day (Mgal/d).
- Surface-water use was 17,376.92 Mgal/d, or 78.4 percent of total water use.
- Ground-water use was 4,797.44 Mgal/d, or 21.6 percent of total water use, of which 4,355.98 Mgal/d or 90.8 percent was used for irrigation.
- The largest use of water in Nebraska was for power generation, with 15,131.83 Mgal/d or 68.2 percent of all water use, of which greater than 99.9 percent was from surface water.
- Excluding power production, total water use was 7,042.53 Mgal/d, of which 4,789.51 Mgal/d or 68.0 percent was from ground water.
- Total population was 1.6 million, no net change in population since 1985.
- Total per capita use of all water was 13,859 GPD (gallons per day).
- Domestic water use was 185.36 Mgal/d, an average of 115.85 GPD per capita.
- Commercial water use was 50.45 Mgal/d, with 99.6 percent from public supply.
- Industrial water use was 73.95 Mgal/d, with 44.7 percent supplied from surface water and used primarily for quarrying and gravel washing.
- Irrigation water use was 6,097.64 Mgal/d, or 27.5 percent of all water use. This is 68.2 percent of all offstream water use.
- Livestock water use was 139.08 Mgal/d, or 1.6 percent of all offstream use.
- Total power generation was 21,306 Gwh (giga watt hours).

(Z.D. Hill, U.S. Geological Survey, written commun., 1991).



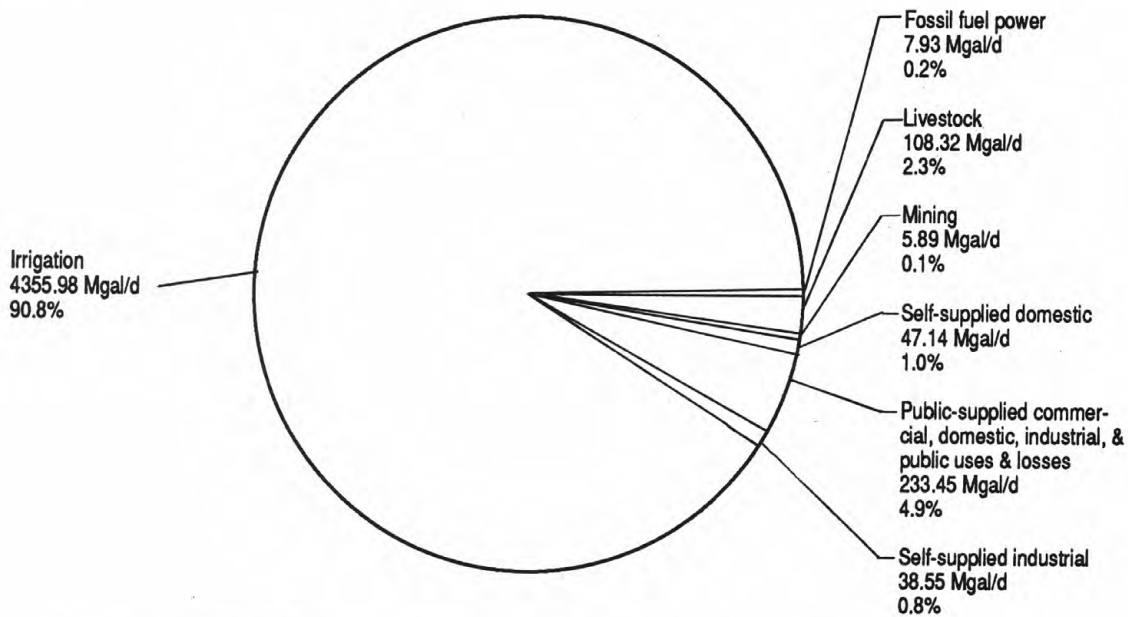
Total water use: 22,174.36 million gallons per day

Figure 4.--(a) Estimated total water use in Nebraska, 1990.



Total surface-water use: 17,376.92 million gallons per day

Figure 4.--(b) Estimated total surface-water use in Nebraska, 1990.



Total ground-water use: 4,797.44 million gallons per day

Figure 4.--(c) Estimated total ground-water use in Nebraska, 1990.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 53 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.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

NASQAN was redesigned in 1995 and will be known as NASQAN II beginning in 1996. NASQAN II will focus on four of the largest river basins in the Nation-- the Mississippi, the Columbia, the Colorado, and the Rio Grande. The objective of NASQAN II 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 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, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 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.

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 1995 water year that began October 1, 1994, and ended September 30, 1995. 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 5, 6, and 7. 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.

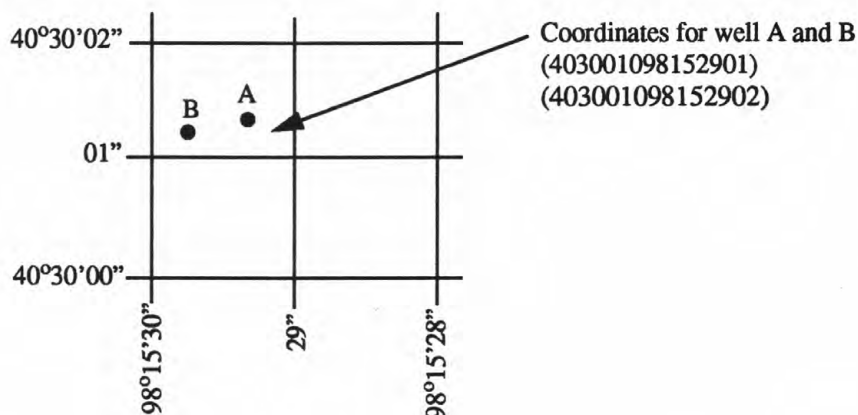
Downstream Order System

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 indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation 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 below.)



16 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.

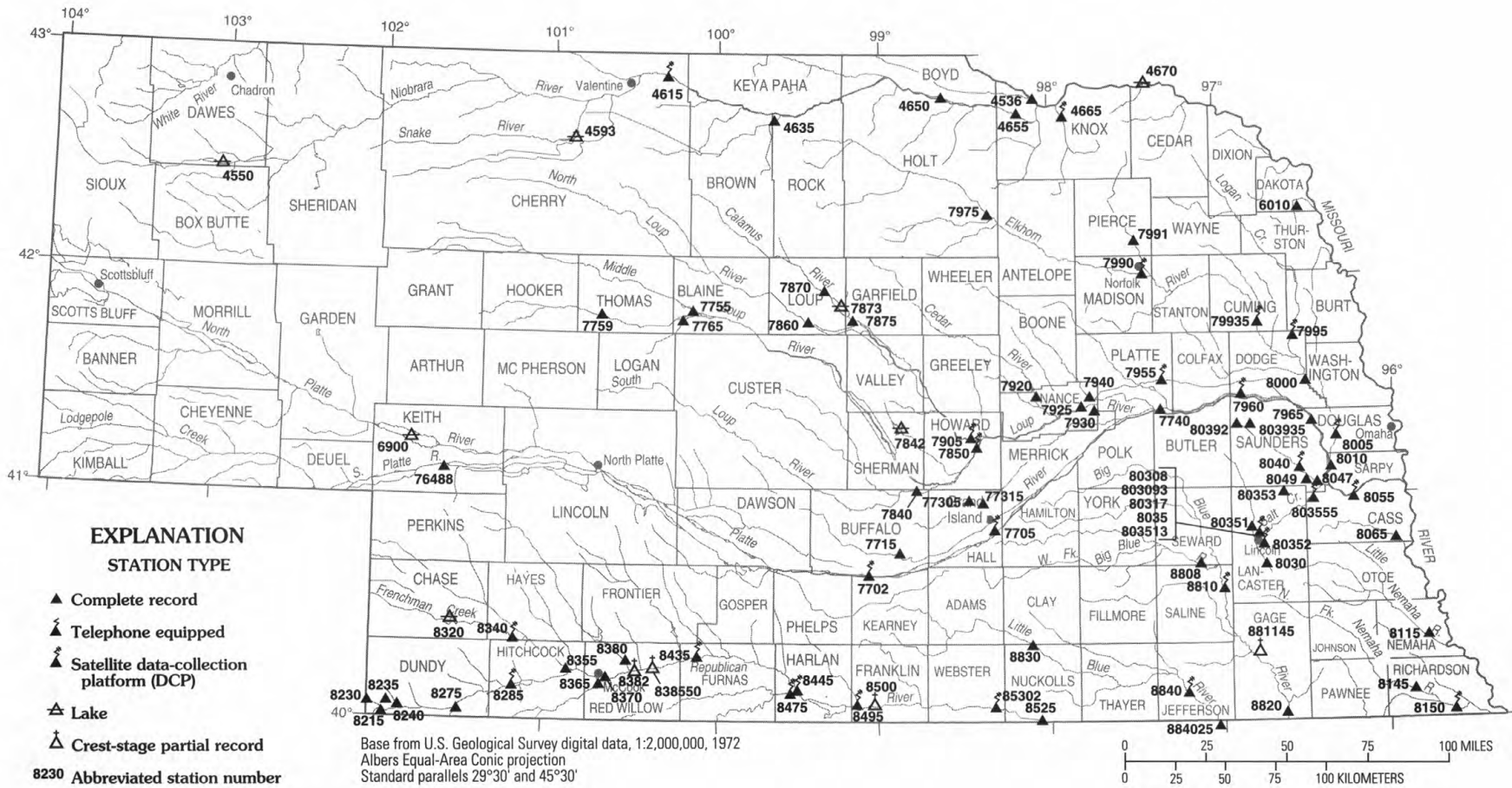


Figure 5--Location of active surface-water gaging stations.

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 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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/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 22092, 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 6.

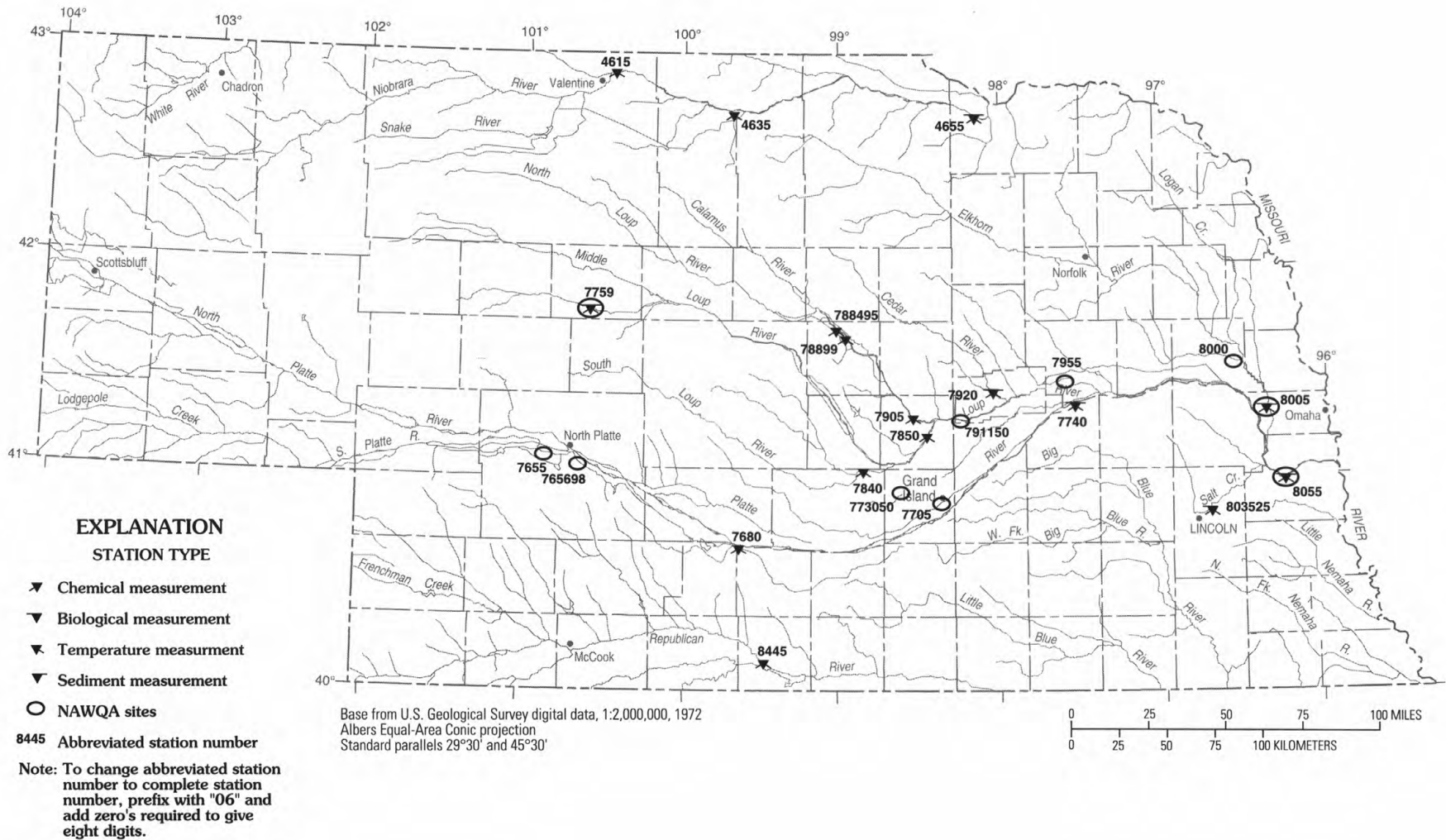


Figure 6.--Location of active surface-water quality stations.

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 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 (1995) 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 7.

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.

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).

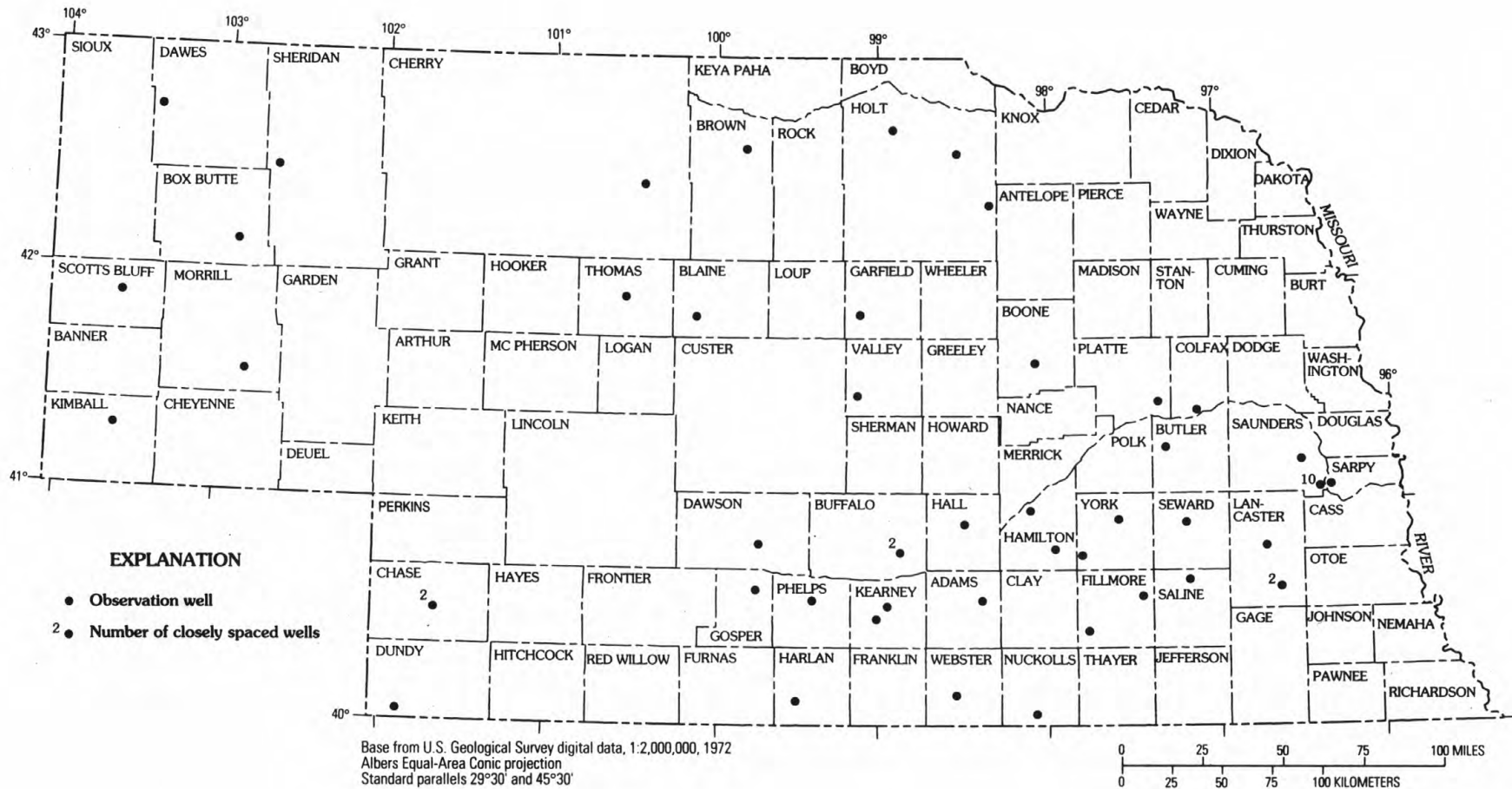


Figure 7.--Location of selected observation wells.

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 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 WATSTORE

The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey. A variety of useful products ranging from data tables to complex statistical analyses such as Log Pearson Type III statistics can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.

Daily Values File - Contains more than 220 million daily values of stream flow, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.

Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.

Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radiochemical characteristics of both surface and ground water.

Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requester will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, the National Water Data Exchange (NAWDEX) services include data-search assistance, data dissemination, and data referrals. Data can be provided in various machine-readable formats on magnetic tape or 5¹/₄-inch floppy disc, and, as noted in the introduction, on CD-ROM discs. However, starting with water year 1995, CD-ROM discs will no longer be available. The request for water data should be forwarded to the local Geological Survey district office.

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

Past water-data reports (water years 1990-94) may still be available on Compact Disc - Read Only Memory (CD-ROM). Data reports for the water year for the entire Nation, including Puerto Rico and the Trust Territories, have been reproduced on a single CD-ROM disc. 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's District offices. A limited number of CD-ROM discs are available for sale by the U.S. Geological Survey, Information Services, MS 517, Box 25046, Denver, CO 80225. If the district office does not have the facility to fulfill the request, it will be referred to the National Water Data Exchange (NAWDEX) office in Reston, Virginia.

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.

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

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.

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. 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 warmblooded 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 which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35° C plus or minus 1.0° C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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 micro-organisms, 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.

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.

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

Contents 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.

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 (ft³/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.

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 μ m 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.

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.

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).

Hydrologic Bench-Mark Network is a network of 57 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 eight-digit number.

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

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.

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 ($\mu\text{g/g}$) 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 ($\mu\text{G/L}$, $\mu\text{g/L}$) 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.

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.

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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 142 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Water-Quality Assessment (NAWQA) Program of the Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

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 (m², 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, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE 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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
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.

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.

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.

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) 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).

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

Suspended-sediment discharge (tons/day) 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 (ft³/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.

Total sediment discharge (tons/day) 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 Q₁₀) 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. 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 about 65 percent of the specific conductance (in microsiemens). 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 emerged 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 U.S.G.S. 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 recoverable concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical 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.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

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) 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.

Water year in 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, 1993, is called the "1993 water year."

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.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey 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. Geological Survey, Branch of 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 sent by 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 "U.S. Geological Survey Techniques of Water-Resources Investigations."

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- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
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- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter 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, Chapter B3. 1980. 106 pages.
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- 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, Chapter 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, Chapter C2. 1978. 90 pages.
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WATER RESOURCES DATA - NEBRASKA, 1995
SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
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 1 dominant

NOTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ 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.

PONCA CREEK BASIN

43

06453600 PONCA CREEK AT VERDEL, NE

LOCATION.--Lat 42°48'40", long 98°10'35", in NE1/4 NE1/4 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 mi².

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

REVISED RECORDS.--WSP 2117: Drainage area.

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.

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

REVISIONS.--The maximum discharge for the water year 1994 has been revised to 1,380 ft³/s, June 18, 1994, gage height, 8.11 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	23	e25	e24	e40	e66	96	954	1410	91	38	63
2	15	23	e29	e24	e42	e64	109	1260	961	88	40	59
3	17	23	e29	e24	e46	e66	129	1020	698	85	46	55
4	18	23	e27	e23	e45	e72	148	1020	563	83	48	52
5	19	25	e25	e23	e45	e66	136	912	517	95	78	166
6	19	25	e23	e24	e45	e62	119	769	485	102	212	921
7	18	26	e22	e23	e44	e58	115	1030	435	95	105	323
8	18	25	e22	e24	e43	e56	118	1790	395	86	71	156
9	18	25	e23	e25	e46	e62	128	1790	393	77	55	107
10	18	24	e23	e27	e50	e80	124	2880	397	70	47	84
11	18	24	e21	e30	e47	e110	121	1750	394	65	41	67
12	18	25	e22	e32	e46	161	126	1380	357	60	49	70
13	18	26	e22	e31	e48	152	134	2210	323	54	52	75
14	18	24	e23	e30	e48	105	260	2060	301	51	53	67
15	19	24	e23	e30	e49	82	954	1210	284	63	48	59
16	20	24	e23	e31	e49	72	740	911	266	57	45	52
17	21	26	e23	e30	e58	63	610	793	235	51	43	46
18	25	24	e22	e30	e68	72	1240	668	207	48	39	48
19	25	23	e22	e31	e66	77	1290	591	184	48	35	66
20	28	26	e22	e31	e70	76	1400	525	165	49	33	75
21	28	29	e22	e30	e76	67	1690	471	150	47	33	74
22	25	25	e23	e30	91	57	1120	430	138	50	2400	74
23	23	e25	e23	e30	114	52	1120	447	128	87	1490	66
24	23	e26	e24	e31	98	45	1060	434	122	66	375	63
25	23	25	e25	e32	104	49	1310	393	118	52	217	59
26	23	e25	e28	e32	95	105	1200	375	113	46	146	56
27	24	e26	e30	e36	75	257	917	1160	110	42	115	55
28	23	e24	e29	e36	e70	235	716	5690	106	38	98	54
29	22	e23	e27	e35	---	154	648	4720	102	35	85	55
30	22	e24	e27	e35	---	114	711	2200	96	32	76	59
31	23	---	e27	e38	---	99	---	1720	---	32	68	---
TOTAL	642	740	756	912	1718	2856	18589	43563	10153	1945	6281	3226
MEAN	20.7	24.7	24.4	29.4	61.4	92.1	620	1405	338	62.7	203	108
MAX	28	29	30	38	114	257	1690	5690	1410	102	2400	921
MIN	13	23	21	23	40	45	96	375	96	32	33	46
AC-FT	1270	1470	1500	1810	3410	5660	36870	86410	20140	3860	12460	6400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	MEAN	17.3	20.1	13.6	12.4	45.8	231	185	169	141	87.2	38.7	24.0
MAX	83.4	73.4	71.0	57.9	229	1333	818	1405	1237	742	327	213	
(WY)	1974	1994	1994	1973	1973	1960	1984	1995	1962	1993	1962	1986	
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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1958 - 1995

ANNUAL TOTAL	29587	91381	
ANNUAL MEAN	81.1	250	82.3
HIGHEST ANNUAL MEAN			343
LOWEST ANNUAL MEAN			3.75
HIGHEST DAILY MEAN	900	5690	14800
LOWEST DAILY MEAN	12	13	.00
ANNUAL SEVEN-DAY MINIMUM	13	17	.00
INSTANTANEOUS PEAK FLOW		6760	15700
INSTANTANEOUS PEAK STAGE		14.26	***17.30
ANNUAL RUNOFF (AC-FT)	58690	181300	59620
10 PERCENT EXCEEDS	189	840	170
50 PERCENT EXCEEDS	36	56	17
90 PERCENT EXCEEDS	19	23	.06

e Estimated.

* No flow for many days in 1957-60, 1965-72, 1974-77, 1979-81, 1989, 1991.

** Site and datum then in use.

*** From floodmark, ice jam..

NIOBRARA RIVER BASIN

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 mi², 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, 21,740 acre-ft July 4, elevation, 4,000.56 ft; minimum observed, 6,240 acre-ft Sept. 15, elevation, 3,984.60 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep 30	3,984.46	6,160	--
Oct. 31	3,986.96	7,830	+1,670
Nov. 30	3,989.01	9,420	+1,590
Dec. 31	3,990.61	10,810	+1,390
CAL YR 1994.....	--	--	-2,880
Jan. 31	3,992.25	12,340	+1,530
Feb. 28	3,994.03	14,100	+1,760
Mar. 31	3,995.66	15,830	+1,730
Apr. 30	3,997.30	17,680	+1,850
May 31	3,999.33	20,160	+2,480
June 30	4,000.50	21,640	+1,480
July 31	3,996.50	16,760	-4,880
Aug. 31	3,989.00	9,420	-7,340
Sept. 30	3,986.00	7,150	-2,270
WTR YR 1995.....	--	--	+990

* Elevations read on or near last day of month.

NIOBRARA RIVER BASIN

45

06459300 MERRITT RESERVOIR NEAR BURGE, NE

LOCATION.--Lat 42°38'06", long 100°2'18", in SW1/4 NW1/4 sec. 29, T. 31 N., R. 30 W., Cherry County, Hydrologic Unit 10150005, in control house of outlet works of Merritt Dam, 8.1 mi southwest of Burge and 23 mi southwest of Valentine.

DRAINAGE AREA.--640 mi², approximately, of which about 44 mi² 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 Ainsworth 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 76,550 acre-ft May 31, elevation, 2,946.7 ft; minimum observed 35,710 acre-ft Sept. 13, elevation, 2,928.6 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	2,937.8	53,230	--
Oct. 31.....	2,943.0	66,120	+12,890
Nov. 30.....	2,944.0	68,830	+2,710
Dec. 31.....	2,944.0	68,830	0
CAL YR 1994	--	--	0
Jan. 31.....	2,944.0	68,830	0
Feb. 28.....	2,944.0	68,830	0
Mar. 31.....	2,944.5	70,230	+1,400
Apr. 30.....	2,946.2	75,080	+4,850
May 31.....	2,946.7	76,550	+1,470
June 30.....	2,946.0	74,490	-2,060
July 31.....	2,939.6	57,450	-17,040
Aug. 31.....	2,931.7	40,930	-16,520
Sept. 30.....	2,932.1	41,640	+710
WTR YR 1995.....	--	--	-11,590

* Elevations read on or near last day of month.

NIOBRARA RIVER BASIN

06461500 NIOBRARA RIVER NEAR SPARKS, NE

LOCATION.--Lat 42°54'10", long 100°21'40", in SE 1/4 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 Minnechaduzza Creek, 6.5 mi southwest of Sparks, and at mile 342.

DRAINAGE AREA.--7150 mi².

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	600	765	e740	670	e740	776	1290	1550	921	608	491
2	507	601	805	e700	808	e700	824	1260	1520	866	570	491
3	544	593	794	e700	890	e720	832	1310	1440	852	561	491
4	538	600	781	e640	866	727	786	1310	1420	850	598	491
5	534	599	e740	e600	871	740	810	1260	1470	834	580	517
6	552	597	e700	e620	855	e680	813	1290	1480	758	570	508
7	571	603	e640	e620	846	e640	814	1330	1490	715	552	500
8	570	655	e660	e660	831	610	819	1300	1650	688	552	500
9	541	775	e680	e680	814	757	837	1510	1550	666	561	526
10	539	806	e700	e740	824	753	887	1470	1730	598	526	517
11	535	802	e700	e780	e780	828	887	1410	1610	591	517	508
12	517	790	e706	e800	e720	835	820	1390	1500	589	517	508
13	518	799	e700	e800	e660	825	825	1500	1500	561	517	508
14	535	807	e680	804	602	797	921	1610	1490	552	500	508
15	561	799	e700	793	655	821	1030	1500	1400	570	508	500
16	586	791	e720	804	767	843	1080	1440	1330	627	500	500
17	611	788	e740	e780	716	825	1100	1430	1230	598	483	500
18	618	796	e780	817	758	859	1300	1350	1150	608	474	627
19	622	784	e820	797	768	827	1080	1280	1090	598	474	608
20	611	771	e860	809	742	824	1200	1250	1040	580	483	598
21	593	805	895	833	757	814	1250	1190	998	580	483	617
22	596	741	851	814	796	818	1250	1190	1090	598	500	617
23	596	787	865	810	812	802	1340	1160	1430	580	508	608
24	588	776	859	806	812	782	1350	1200	1230	570	508	598
25	588	779	864	782	810	826	1270	1170	1130	561	508	598
26	592	778	871	786	817	821	1210	1190	1080	543	534	598
27	595	816	868	789	809	832	1160	1450	1050	526	526	589
28	604	e800	858	793	e780	728	1120	1900	1020	517	517	589
29	603	764	852	781	---	708	1180	1680	1010	508	517	608
30	599	771	846	772	---	715	1170	1640	979	500	491	666
31	599	---	e820	745	---	744	---	1670	---	646	491	---
TOTAL	17644	22173	24120	23395	21836	23941	30741	42930	39657	19751	16234	16485
MEAN	569	739	778	755	780	772	1025	1385	1322	637	524	549
MAX	622	816	895	833	890	859	1350	1900	1730	921	608	666
MIN	481	593	640	600	602	610	776	1160	979	500	474	491
AC-FT	35000	43980	47840	46400	43310	47490	60970	85150	78660	39180	32200	32700

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	671	755	759	769	877	967	899	882	810	631	593	612
MAX	879	877	950	1208	1403	1464	1214	1385	1470	1122	858	993	
(WY)	1966	1963	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	261551	298907	
ANNUAL MEAN	717	819	768
HIGHEST ANNUAL MEAN			911
LOWEST ANNUAL MEAN			598
HIGHEST DAILY MEAN	1400	1900	5000
LOWEST DAILY MEAN	465	474	100
ANNUAL SEVEN-DAY MINIMUM	470	485	327
INSTANTANEOUS PEAK FLOW (STAGE)		2140	10200 (6.73)
INSTANTANEOUS PEAK STAGE		3.97	10.06
ANNUAL RUNOFF (AC-FT)	518800	592900	556400
10 PERCENT EXCEEDS	943	1310	1030
50 PERCENT EXCEEDS	706	776	760
90 PERCENT EXCEEDS	521	517	500

NIOBRARA RIVER BASIN

47

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. (FT ³ /S) (00061)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH	TEMPER- ATURE WATER (° C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE-	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	
				WATER WHOLE FIELD (STAND- ARD UNITS) (00400)					SIUM, DIS- SOLVED (MG/L AS Mg) (00925)			
NOV												
01...	1550	609	230	8.7	8.5	8	89	29	4.0	9.0	0.4	
DEC												
12...	1430	706	238	8.4	0.5	8	92	30	4.1	8.8	0.4	
JAN												
19...	1410	778	227	8.3	1.0	10	91	30	4.0	8.6	0.4	
MAR												
09...	0920	714	237	8.4	0.5	13	94	31	4.1	8.9	0.4	
APR												
14...	0910	926	225	8.5	7.5	13	91	30	4.0	8.3	0.4	
MAY												
31...	1010	1670	283	8.3	16.5	50	110	35	6.0	13	0.5	
JUL												
11...	0920	592	268	8.7	25.5	45	100	32	5.5	12	0.5	
AUG												
16...	0930	505	239	8.6	22.5	43	93	30	4.4	9.4	0.4	
SEP												
25...	1320	604	237	8.5	15.0	10	96	31	4.6	10	0.4	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV												
01...	6.1	114	5.4	1.3	0.40	54	180	0.24	295	--	<0.010	
DEC												
12...	6.4	107	5.8	1.1	0.30	55	178	0.24	340	--	<0.010	
JAN												
19...	5.3	104	4.8	1.1	0.40	54	174	0.24	364	--	<0.010	
MAR												
09...	5.9	107	5.2	1.6	0.40	54	178	0.24	343	--	<0.010	
APR												
14...	6.1	108	5.1	1.3	0.40	48	170	0.23	425	--	<0.010	
MAY												
31...	8.2	141	4.4	1.9	0.50	41	196	0.27	882	--	<0.010	
JUL												
11...	7.9	133	6.5	1.7	0.50	51	197	0.27	315	--	<0.010	
AUG												
16...	6.5	117	--	--	--	--	--	--	--	--	<0.010	
SEP												
25...	6.4	114	5.8	1.5	0.30	55	186	0.25	303	0.580	0.010	

NIOBRARA RIVER BASIN

06461500 NIOBRARA RIVER NEAR SPARKS, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (µ G/L AS B) (01020)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)
NOV 01...	0.400	<0.015	--	<0.20	--	0.080	0.050	0.050	30	9	2
DEC 12...	0.550	<0.015	--	0.20	0.75	0.090	0.070	0.060	30	15	4
JAN 19...	0.590	0.020	0.18	0.20	0.79	0.140	0.060	0.090	20	22	3
MAR 09...	0.590	0.020	--	<0.20	--	0.140	0.070	0.070	30	25	3
APR 14...	0.400	<0.015	--	0.20	0.60	0.100	0.040	0.050	30	22	2
MAY 31...	0.190	0.030	0.47	0.50	0.69	0.080	0.040	0.060	40	35	4
JUL 11...	0.070	0.020	0.28	0.30	0.37	0.120	0.020	0.020	30	13	2
AUG 16...	0.120	<0.015	--	0.20	0.32	0.080	0.030	0.030	--	12	2
SEP 25...	0.590	<0.015	--	<0.20	--	0.080	0.060	0.060	30	20	10

49

**** 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE INST. (FT ³ /S (00061)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER	TEMPER- ATURE WATER (°C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM ADSORP- TION RATIO (00931)	
				WHOLE FIELD (STAND- ARD UNITS) (00400)								
NOV	02...	1110	159	204	8.4	9.5	7	74	24	3.5	7.8	0.4
DEC	13...	1100	160	219	8.2	2.0	15	77	25	3.6	8.0	0.4
JAN	20...	1020	177	214	8.3	4.5	15	80	26	3.6	8.1	0.4
MAR	09...	1330	155	197	8.3	7.0	10	77	25	3.5	7.4	0.4
APR	13...	1415	203	213	8.2	10.5	18	83	27	3.9	8.3	0.4
MAY	30...	1625	483	214	8.1	18.5	72	85	27	4.2	8.8	0.4
JUL	10...	1400	186	203	8.2	25.5	27	77	25	3.6	7.5	0.4
AUG	15...	1300	193	204	8.3	21.0	40	75	24	3.6	8.2	0.4
SEP	26...	1110	177	212	8.3	12.0	7	78	25	3.8	8.9	0.4

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV 02...	6.1	87	4.4	2.3	0.30	57	167	0.23	71.8	--	<0.010
DEC 13...	5.7	87	4.5	2.5	0.20	57	169	0.23	73.1	2.29	0.010
JAN 20...	4.7	86	3.5	2.4	0.30	56	166	0.23	79.5	--	<0.010
MAR 09...	5.4	83	3.7	2.4	0.30	56	164	0.22	68.5	--	<0.010
APR 13...	5.9	90	4.7	3.1	0.30	51	169	0.23	92.4	2.19	0.010
MAY 30...	7.0	100	2.3	3.1	0.30	34	151	0.21	197	0.750	0.020
JUL 10...	5.8	86	5.0	2.1	0.30	57	166	0.23	83.4	--	<0.010
AUG 15...	6.2	89	4.8	2.6	0.30	54	165	0.22	86.1	1.69	0.010
SEP 26...	6.7	90	4.8	2.8	0.20	56	173	0.24	82.7	2.28	0.020

NIOBRARA RIVER BASIN

51

06463500 LONG PINE CREEK NEAR RIVERVIEW, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (µ G/L AS B) (01020)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)
NOV 02...	2.10	<0.015	--	<0.20	--	0.170	0.140	0.150	20	13	2
DEC 13...	2.30	<0.015	--	<0.20	--	0.150	0.130	0.120	20	16	4
JAN 20...	2.20	0.030	0.17	0.20	2.4	0.140	0.110	0.140	20	27	2
MAR 09...	2.20	<0.015	--	<0.20	--	0.180	0.140	0.130	20	20	3
APR 13...	2.20	0.030	0.17	0.20	2.4	0.200	0.160	0.170	30	33	4
MAY 30...	0.770	0.050	0.65	0.70	1.5	0.340	0.210	0.230	30	120	10
JUL 10...	1.70	0.020	0.18	0.20	1.9	0.170	0.180	0.170	20	34	3
AUG 15...	1.70	<0.015	--	<0.20	--	0.240	0.200	0.210	50	36	3
SEP 26...	2.30	0.020	--	<0.20	--	0.180	0.180	0.180	20	30	10

NIOBRARA RIVER BASIN

06464500 KEYA PAHA RIVER AT WEWELA, SD

LOCATION.--Lat 43°01'44", long 99°46'49", in NW1/4SW1/4SE1/4 sec.24, T.9S 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 mi², 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. 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 Mar. 12 to Apr. 5 and Apr. 15 to May 16, which are fair, and those for estimated daily discharges, which are poor. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	39	e50	e48	e42	51	e84	685	713	186	77	45
2	35	39	e50	e42	e50	e67	153	765	569	167	81	44
3	36	39	e47	e39	e62	e68	192	780	494	154	74	42
4	37	39	e47	e37	e68	e66	220	739	450	148	69	41
5	38	39	e29	e37	e68	e66	209	617	434	142	75	43
6	40	39	e40	e35	e63	e63	189	558	423	131	84	43
7	39	39	e44	e33	e57	e61	163	610	451	123	80	44
8	37	39	e44	e32	e50	e60	144	661	435	117	71	44
9	36	39	e44	e33	e50	e63	e110	1030	423	110	63	46
10	36	38	e44	e33	e51	e70	e100	1490	467	102	57	45
11	36	39	e44	e36	e41	e90	e91	1320	456	97	55	45
12	35	39	e45	e37	e36	118	94	902	439	92	53	50
13	34	39	e48	e40	e35	92	114	886	391	85	54	45
14	34	38	e47	e40	e40	84	293	927	347	80	53	43
15	35	37	e48	e40	e41	81	530	850	305	78	53	43
16	39	37	e47	e39	e40	79	587	682	266	78	51	42
17	48	38	e48	e38	e44	75	590	536	233	77	49	42
18	47	37	e48	e33	e57	80	423	446	208	75	48	47
19	49	36	e47	e32	e75	87	205	397	209	72	47	64
20	47	e37	e46	e29	e98	92	305	347	186	70	45	65
21	44	e37	e46	e31	e116	89	700	315	171	72	45	67
22	42	e37	e47	e31	e125	82	1300	289	161	73	46	63
23	39	e30	e48	e33	e102	80	1510	275	234	73	51	62
24	38	e37	e49	e31	89	82	1340	263	438	72	51	61
25	37	e37	e51	e31	83	91	1090	255	524	67	49	60
26	38	e37	e58	e31	80	104	819	263	411	62	49	59
27	39	e37	e64	e35	79	92	613	496	346	60	52	57
28	39	e26	e63	e34	69	59	500	1640	292	56	52	56
29	38	e36	e63	e34	---	61	555	1810	245	54	52	57
30	37	e44	e62	e32	---	62	527	1540	214	53	50	74
31	38	---	e54	e38	---	e64	---	1010	---	67	48	---
TOTAL	1200	1124	1512	1094	1811	2379	13750	23384	10935	2893	1784	1539
MEAN	38.7	37.5	48.8	35.3	64.7	76.7	458	754	364	93.3	57.5	51.3
MAX	49	44	64	48	125	118	1510	1810	713	186	84	74
MIN	33	26	29	29	35	51	84	255	161	53	45	41
AC-FT	2380	2230	3000	2170	3590	4720	27270	46380	21690	5740	3540	3050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

	MEAN	35.0	39.6	31.8	26.5	58.0	177	157	135	98.0	60.9	33.7	28.3
MAX	82.2	77.6	64.5	85.5	304	598	605	754	512	607	143	69.5	
(WY)	1983	1983	1983	1983	1994	1960	1952	1995	1962	1962	1962	1986	
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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1939 - 1995

ANNUAL TOTAL	35657	63405	
ANNUAL MEAN	97.7	174	^a 73.4
HIGHEST ANNUAL MEAN			175
LOWEST ANNUAL MEAN			19.5
HIGHEST DAILY MEAN	1800	May 29	4930
LOWEST DAILY MEAN	20	Feb 8	.00
ANNUAL SEVEN-DAY MINIMUM	25	Feb 7	.00
INSTANTANEOUS PEAK FLOW (STAGE)		1940	5430 (13.08)
INSTANTANEOUS PEAK STAGE		6.77	13.50
ANNUAL RUNOFF (AC-FT)	70730	125800	53190
10 PERCENT EXCEEDS	159	510	143
50 PERCENT EXCEEDS	47	60	39
90 PERCENT EXCEEDS	30	37	14

e Estimated

a Median of annual mean discharges, 59 ft³/s.

b Also Jan. 11 to Feb. 15, 1949, and Aug. 19 to Sept. 14, 1976.

c Backwater from ice.

NIOBRARA RIVER BASIN

53

06465000 NIOBRARA RIVER NEAR SPENCER, NE

LOCATION.--Lat 42°48'33", long 98°39'22", in SE1/4 NW1/4 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 mi².

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 as 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 good. 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 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1380	1910	1350	1800	1250	1950	4980	4400	2000	1770	954
2	1150	1320	2460	1080	2100	1100	1980	3330	3560	1880	1340	951
3	1300	1320	1820	841	2120	1500	2170	4040	3350	1760	1210	978
4	1240	1410	1650	872	2030	1750	2330	4510	3370	1980	1260	971
5	1230	1380	1000	828	2000	1160	2270	4210	3500	1870	1620	1350
6	1190	1360	790	685	1980	899	2050	3680	3430	1630	1860	1130
7	1380	1340	414	519	1810	448	3160	4120	3600	1420	1460	1040
8	1220	1290	648	789	1680	490	2190	4550	3680	1430	1260	1050
9	1260	1420	1010	990	1660	671	2780	4840	3900	1340	1250	1000
10	1220	1460	1330	1190	1760	1440	2880	6420	4090	1230	1170	1000
11	1180	1540	1240	1500	1550	4770	3080	5660	4050	1210	1100	1070
12	1150	1530	1100	1800	1150	2300	3210	4870	3710	1160	1050	1180
13	1160	1510	1080	1980	1090	1790	3210	5130	3420	1130	1110	1160
14	1100	1540	1190	1950	1170	1760	3590	5240	3160	1050	1150	1080
15	1060	1430	1160	1920	1100	1660	4210	4660	3050	1170	1110	1070
16	1460	1600	1320	1940	1270	1680	2900	4040	2850	1170	1050	1010
17	1910	1540	1480	1580	1340	1690	4050	3750	2660	1190	1010	1030
18	1710	1490	1550	1490	1600	1920	6090	3410	2460	1190	999	1200
19	1700	1570	1570	1530	1940	1890	5700	3170	2390	1150	1050	2120
20	1360	1680	1570	1540	2200	1900	5510	2990	2280	1240	1030	1770
21	1390	791	1610	1470	2550	1760	6620	2900	2190	1220	1020	1700
22	1380	1530	1640	1520	2820	1740	7520	2800	2150	1400	1760	1960
23	1400	1470	1650	1480	2750	1690	7950	2990	2360	1270	1200	1600
24	1360	1520	1650	1550	2260	1620	6550	2780	2670	1240	1070	1520
25	1380	1480	1710	1510	1880	1880	5480	2690	2670	1230	992	1820
26	1300	1530	1860	1480	1680	2790	4340	2810	2730	1150	991	1370
27	1300	1710	1950	1560	1700	3010	3620	5260	2480	1090	1080	1060
28	1300	1510	1940	1640	1360	2330	3560	10800	2460	1030	1060	1150
29	1290	1420	1870	1590	---	2020	3870	10500	2330	1030	1010	1150
30	1350	1510	1880	1570	---	1860	4340	7450	2140	980	995	1860
31	1380	---	1690	1630	---	1830	---	5550	---	1200	948	---
TOTAL	40840	43581	45742	43374	50350	54598	119160	144130	91090	41040	36985	38304
MEAN	1317	1453	1476	1399	1798	1761	3972	4649	3036	1324	1193	1277
MAX	1910	1710	2460	1980	2820	4770	7950	10800	4400	2000	1860	2120
MIN	1030	791	414	519	1090	448	1950	2690	2140	980	948	951
AC-FT	81010	86440	90730	86030	99870	108300	236400	285900	180700	81400	73360	75980

NIOBRARA RIVER BASIN

06465000 NIOBRARA RIVER NEAR SPENCER, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1995, BY WATER YEAR (WY)

MEAN	1249	1311	1149	1204	1585	2244	1925	1836	1613	1138	1026	1098
MAX	1865	1771	1881	1749	2687	3941	3972	4649	3972	4156	2167	2143
(WY)	1947	1987	1994	1990	1984	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1927 - 1995

ANNUAL TOTAL	581310		749194			
ANNUAL MEAN	1593		2053			1449
HIGHEST ANNUAL MEAN						2066
LOWEST ANNUAL MEAN						1096
HIGHEST DAILY MEAN	6300	Mar 6	10800	May 28	19000	Mar 27 1960
LOWEST DAILY MEAN	414	Dec 7	414	Dec 7	5.0	Nov 14 1940
ANNUAL SEVEN-DAY MINIMUM	919	Dec 5	789	Jan 3	168	Dec 8 1932
INSTANTANEOUS PEAK FLOW					27400	Mar 12 1955
INSTANTANEOUS PEAK STAGE					12.16	Mar 12 1955
ANNUAL RUNOFF (AC-FT)	1153000		1486000		1049000	
10 PERCENT EXCEEDS	2230		3880		2220	
50 PERCENT EXCEEDS	1470		1570		1290	
90 PERCENT EXCEEDS	1040		1030		767	

NIOBRARA RIVER BASIN

55

06465500 NIOBRARA RIVER NEAR VERDEL, NE

LOCATION.--Lat 42°44'23", long 98°13'26", in NW1/4NW1/4 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 mi².

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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	1500	1770	e1800	e2000	e1500	2530	4910	5660	2380	1640	1060
2	1460	1460	1760	e1600	e2200	e1300	2590	5540	4750	2220	1620	1070
3	1530	1380	1610	e1300	e2400	e1600	2850	5520	3780	2230	1580	1110
4	1420	1480	1780	e1000	e2300	e2000	2590	5690	3510	2200	1530	1160
5	1430	1550	1480	e940	e2200	e1800	2440	4830	e3700	2090	1870	1300
6	1350	1500	1250	e860	e2150	e1200	2470	4660	e3900	2030	1890	1540
7	1470	1500	1210	e740	e2100	e800	2020	4790	e4000	1830	1740	1410
8	1300	1600	1140	e800	e2000	e600	2160	5870	e4100	1770	1610	1270
9	1340	1550	e1180	e1000	e1950	e900	2830	6260	e4300	1660	1560	1170
10	1310	1550	e1250	e1200	e1900	e1700	3360	7590	e4500	1530	1480	1140
11	1300	1570	e1400	e1500	e1850	e3000	3450	6930	e4800	1430	1480	1140
12	1280	1490	e1300	e1800	e1700	e3800	4360	5410	e4700	1440	1450	1130
13	1290	1500	e1220	e2000	e1400	e2330	3740	5990	4670	1440	1450	1110
14	1360	1700	e1250	e2050	e1300	e2000	4750	6660	4080	1430	1460	1080
15	1340	1570	e1300	e2100	e1300	e1900	6110	5560	4310	1500	1380	1060
16	1450	1540	e1400	e2000	e1400	e1850	5940	5560	4120	1500	1290	1120
17	1580	1530	e1500	e1800	e1600	e1800	5620	4880	4040	1480	1240	1230
18	1720	1530	e1600	e1700	e1800	e1950	7170	4380	3350	1480	1210	1430
19	1490	1450	e1700	e1750	e2100	e2100	7200	3430	3230	1490	1200	1750
20	1310	1420	e1700	e1700	e2300	2040	6540	3040	2910	1500	1200	1870
21	1470	1320	e1700	e1700	e2600	2090	7390	3000	3370	1570	1190	1730
22	1450	1350	e1750	e1650	e2800	2140	7560	2890	3590	1610	2240	1600
23	1410	1390	e1800	e1650	e3000	2160	8120	3150	3220	1520	1150	1590
24	1410	1690	e1750	e1600	e2600	2100	7380	2820	3380	1430	1070	1510
25	1390	1800	e1850	e1600	e2200	2440	7540	2920	3440	1430	1070	1480
26	1420	1770	e1900	e1650	e1800	3070	5930	2760	3290	1390	1080	1460
27	1470	1720	e2000	e1700	e1900	3400	4910	4400	3310	1370	1090	1420
28	1500	1580	e2050	e1750	e1800	2550	3180	11600	3170	1340	1110	1450
29	1540	1490	e2150	e1750	---	2360	3630	9960	2690	1320	1120	1480
30	1550	1670	e2000	e1800	---	2660	4420	7030	2710	1290	1120	1520
31	1550	---	e1950	e1900	---	2380	---	5970	---	1320	1080	---
TOTAL	44300	46150	49700	48390	56650	63520	140780	164000	114580	50220	43200	40390
MEAN	1429	1538	1603	1561	2023	2049	4693	5290	3819	1620	1394	1346
MAX	1720	1800	2150	2100	3000	3800	8120	11600	5660	2380	2240	1870
MIN	1280	1320	1140	740	1300	600	2020	2760	2690	1290	1070	1060
AC-FT	87870	91540	98580	95980	112400	126000	279200	325300	227300	99610	85690	80110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	1363	1459	1320	1375	1793	2558	2235	2077	1771	1346	1091	1215
MAX	1913	2142	2022	1858	2910	4425	4693	5290	4442	5370	2049	2094
(WY)	1974	1974	1994	1990	1984	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	633135	861880	
ANNUAL MEAN	1735	2361	
HIGHEST ANNUAL MEAN			1640
LOWEST ANNUAL MEAN			2461
HIGHEST DAILY MEAN	6620	11600	25100
LOWEST DAILY MEAN	619	600	104
ANNUAL SEVEN-DAY MINIMUM	1040	934	210
INSTANTANEOUS PEAK FLOW			39000
INSTANTANEOUS PEAK STAGE			*10.62
ANNUAL RUNOFF (AC-FT)	1256000	1710000	1188000
10 PERCENT EXCEEDS	2450	4750	2500
50 PERCENT EXCEEDS	1580	1700	1450
90 PERCENT EXCEEDS	1140	1200	860

e Estimated.

* Backwater from ice.

BAZILE CREEK BASIN

06466500 BAZILE CREEK NEAR NIOBRARA, NE

LOCATION.--Lat 42°45'26", long 97°56'50", in SW1/4 sec.7, T.32 N., R.5 W., Knox County, Hydrologic Unit 10170101, on left bank 60 ft shoreward and 20 ft downstream from centerline of bridge on State Highway 12, 2.3 mi upstream from mouth and 4.5 mi east of Niobrara.

DRAINAGE AREA.--440 mi², approximately.

PERIOD OF RECORD.--May 1952 to current year. Records for October 1931 to September 1932, published in WSP 731, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1279: 1952. WSP 1729: 1958(M). WDR NE-81-1: 1977,1979-80. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,210.81 ft above sea level. Prior to Dec. 16, 1952, nonrecording gage only, and Dec. 16, 1952, to June 16, 1957, water-stage recorder at downstream end of right pier, above 4.2 ft, at present site at datum 4 ft higher. June 17, 1957, to Sept. 14, 1958, water-stage recorder above 8.2 ft at present datum. Sept. 15, 1958, to Oct. 17, 1978, water-stage recorder at downstream end of left pier, above 4.3 ft, at present site and datum.

REMARKS.--Records fair except for period of estimated record, which is poor. Minor diversions for irrigation above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	69	74	e88	e190	e98	172	303	e450	100	71	96
2	59	69	76	e88	e220	e94	167	e350	e410	101	71	95
3	63	66	84	e88	e195	e90	154	e390	e360	101	71	95
4	64	63	83	e84	e170	e92	136	e450	e350	116	71	93
5	62	63	70	e86	e170	e88	132	e400	e340	247	125	94
6	65	65	e66	e90	e160	69	131	e380	e310	258	198	110
7	65	68	e64	e84	e150	e66	127	e380	e290	183	142	105
8	63	68	e66	e88	e130	e62	123	e420	e270	131	105	80
9	60	68	e68	e90	e140	e74	133	e460	e270	117	88	71
10	58	65	e72	e98	e150	e98	159	e580	e290	109	81	69
11	57	66	e68	e110	e125	e140	168	e500	e250	107	80	68
12	56	70	e70	e120	e110	175	172	e470	e220	106	77	e81
13	55	68	e70	e112	e116	152	222	e460	e200	99	75	78
14	56	65	e72	e110	e112	128	287	e460	e177	91	75	73
15	57	64	e74	e108	e112	119	268	e440	e170	104	73	68
16	62	66	e80	e112	e112	116	214	e400	e160	121	77	63
17	71	67	e84	e110	e120	111	204	e370	e150	116	78	60
18	98	67	e84	e106	e130	133	1360	e340	e140	102	78	74
19	106	67	e90	e110	e125	166	1200	e320	e130	100	100	140
20	89	72	e95	e108	e125	156	574	e290	e120	109	81	164
21	77	75	e92	e102	e125	139	486	e270	e110	132	73	152
22	72	70	e94	e104	e140	133	378	e250	e105	163	1480	129
23	67	69	e94	e104	136	124	314	e390	e150	111	2210	109
24	65	71	e98	e108	118	123	283	e340	e140	98	637	106
25	63	68	e100	e112	113	124	262	e300	e135	93	331	e92
26	64	69	e108	e118	112	233	244	e320	e125	84	226	e96
27	65	76	e106	e140	109	347	225	e500	e115	82	183	e128
28	67	76	e106	e140	105	288	215	e1000	e110	79	159	e132
29	66	72	e100	e135	---	234	235	e800	104	77	125	e126
30	64	71	e100	e140	---	196	256	e640	98	75	110	e130
31	67	---	e96	e160	---	178	---	e520	---	69	99	---
TOTAL	2060	2053	2604	3353	3820	4346	9001	13493	6249	3581	7450	2977
MEAN	66.5	68.4	84.0	108	136	140	300	435	208	116	240	99.2
MAX	106	76	108	160	220	347	1360	1000	450	258	2210	164
MIN	55	63	64	84	105	62	123	250	98	69	71	60
AC-FT	4090	4070	5170	6650	7580	8620	17850	26760	12390	7100	14780	5900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	MEAN	48.7	52.4	45.8	45.7	78.7	155	134	128	161	75.7	57.8	45.1
	MAX	108	96.4	96.3	108	213	621	587	469	933	388	326	118
	(WY)	1985	1994	1994	1995	1971	1962	1960	1960	1957	1993	1960	1992
	MIN	24.4	25.9	24.5	18.4	26.0	48.0	37.9	30.6	24.6	8.44	7.95	9.48
	(WY)	1990	1990	1990	1979	1978	1981	1981	1981	1956	1980	1991	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1952 - 1995

ANNUAL TOTAL	43603	60987	
ANNUAL MEAN	119	167	85.8
MEDIAN OF ANNUAL MEANS			70.9
HIGHEST ANNUAL MEAN			194
LOWEST ANNUAL MEAN			34.9
HIGHEST DAILY MEAN	2070	2210	12300
LOWEST DAILY MEAN	43	55	.00
ANNUAL SEVEN-DAY MINIMUM	48	57	.77
INSTANTANEOUS PEAK FLOW (STAGE)		5900	68600
INSTANTANEOUS PEAK STAGE		18.28	*20.25
ANNUAL RUNOFF (AC-FT)	86490	121000	62190
10 PERCENT EXCEEDS	171	340	142
50 PERCENT EXCEEDS	78	109	51
90 PERCENT EXCEEDS	53	66	22

e Estimated.

* Backwater from ice.

MISSOURI-LEWIS AND CLARK RIVER BASIN

57

06467000 LEWIS AND CLARK LAKE NEAR YANKTON, SD

LOCATION.--Lat 42°50'56", long 97°28'54", in SW1/4 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 mi², 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 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 ft³/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 ft³/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.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 474,000 acre-ft, May 30; minimum contents, 339,000 acre-ft, Mar. 9.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,206.70	396,000	--
Oct. 31.....	1,207.02	405,000	+9,000
Nov. 30.....	1,207.14	408,000	+3,000
Dec. 31.....	1,207.90	428,000	+20,000
CAL YR 1994.....	--	--	+44,000
Jan. 31.....	1,207.45	418,000	-10,000
Feb. 28.....	1,205.94	376,000	-42,000
Mar. 31.....	1,206.52	392,000	+16,000
Apr. 30.....	1,207.20	410,000	+18,000
May 31.....	1,209.23	468,000	+58,000
June 30.....	1,206.51	391,000	-77,000
July 31.....	1,205.83	375,000	-16,000
Aug. 31.....	1,206.62	394,000	+19,000
Sept. 30.....	1,206.44	415,000	+21,000
WTR YR 1995.....	--	--	+19,000

NOTE.--Lake frozen over Jan. 17 to Mar. 20

MISSOURI-LEWIS AND CLARK RIVER BASIN

06467500 MISSOURI RIVER AT YANKTON, SD

LOCATION.--Lat 42°51'58", long 97°23'37", in SW1/4SW1/4 sec.18, T.93 N., R.55 W., Yankton County, Hydrologic Unit 10170101, near left bank in downstream end of left pier of Meridian Highway Bridge on U.S. Highway 81, 5.2 mi downstream from Gavins Point Dam, 6.0 mi upstream from James River, and at mile 805.8.

DRAINAGE AREA.--279,500 mi², approximately.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1309. Gage-height records collected at same site March 1873 to November 1886, March 1905 to May 1908 (fragmentary), August 1921 to September 1950 (except winter months prior to 1932), are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 1,139.68 ft above sea level. Prior to Sept. 20, 1932, nonrecording gage, and Sept. 20, 1932, to Mar. 9, 1967, water-stage recorder at present site and at datum 20.0 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow on Missouri River main-stem completely regulated by a series of 6 dams with the most downstream being Gavins Point Dam (5.2 mi upstream from gage). Many diversions for irrigation and water supply above station. The last main-stem reservoir to reach maximum pool elevation was Oahe Reservoir on Aug. 22, 1975. Maximum discharge prior to Sept. 30, 1975, 480,000 ft³/s, Apr. 13, 1952, maximum gage height, 35.5 ft, Apr. 13, 14, 1952 (present datum); minimum daily discharge, 2,700 ft³/s, Nov. 15, 16, 1940. U.S. Army Corps of Engineers gage-height telemeter and 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 50.5 ft, Apr. 5, 1881, ice jam, present datum.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31600	30800	17400	16700	16700	16700	21400	13000	30400	37900	41300	58800
2	31500	30800	17400	16700	17000	16500	21400	13100	29800	37900	43000	58900
3	31400	30800	17400	16800	16900	16500	21400	16600	29200	38000	43000	58900
4	31500	30900	17300	16800	18100	16700	23300	19100	28700	38200	42900	e58600
5	31500	30800	17400	16600	18100	16600	23600	16200	28400	37600	43100	e58400
6	31600	30900	17500	16300	18000	16500	23400	15800	28000	37700	44700	e58200
7	31100	30900	17400	16400	17900	16400	23400	18900	27800	37900	48300	e58000
8	31400	31000	17400	16400	17900	17000	23900	16900	27700	37900	49500	e57700
9	31500	30900	17400	16600	17800	16900	24700	16100	27600	37900	49400	e57300
10	31700	30900	17200	16500	17700	16600	24100	20000	28000	37800	49400	e56900
11	31600	30800	17600	16400	18200	16700	23300	17500	29000	38300	51100	e56800
12	32200	30900	17400	16400	18000	16800	22600	18700	29600	37200	52600	e56800
13	32200	30600	16800	16500	17700	16700	22400	20700	30800	36800	52600	e56900
14	32100	30500	17000	16400	17900	16700	21900	20900	32300	38700	54600	e57000
15	32400	30700	16900	16500	17800	16800	19100	21300	33400	38800	57200	e57000
16	31900	30800	16800	16400	17700	16800	17500	22500	34100	38500	58500	e57200
17	31500	30800	16800	16200	17700	17200	16400	22700	36700	38600	58900	e57500
18	31200	30300	16900	16400	17700	20400	17100	22200	36600	38500	57600	e58000
19	31000	30800	16900	16400	17700	23400	15000	22600	36700	38600	58000	e58000
20	30900	30800	16900	16300	17800	26400	11700	23500	36800	38300	58900	e58000
21	30800	30300	16900	16600	17300	27400	11800	23600	38800	38500	59100	e58000
22	30800	30400	16800	16500	16600	27500	12100	24000	39000	38500	57200	e57600
23	30700	30400	16600	16400	16500	27400	12500	24200	38700	38300	53300	e57000
24	30700	27500	16600	16500	16500	27600	13200	24300	38500	39700	50000	e56500
25	31000	24500	16700	16500	16600	27700	13700	24400	38300	41900	52200	e56000
26	31000	21600	16700	16600	16700	27000	13800	24500	38400	41800	56300	e56000
27	30900	17900	16800	16500	16700	24200	13400	24800	38200	41500	58600	e56000
28	30800	17100	17000	16500	16600	21900	13400	25800	38100	41000	58700	e56000
29	30900	17200	16900	16500	---	21200	13300	26000	37900	41200	58800	e56000
30	30900	17400	16800	16600	---	21200	13200	27900	38100	40700	58700	e56000
31	30900	---	16700	16400	---	21400	---	31000	---	40900	58800	---
TOTAL	971200	850000	528300	511300	487800	628800	548000	658800	1005600	1205100	1636300	1720000
MEAN	31330	28330	17040	16490	17420	20280	18270	21250	33520	38870	52780	57330
MAX	32400	31000	17600	16800	18200	27700	24700	31000	39000	41900	59100	58900
MIN	30700	17100	16600	16200	16500	16400	11700	13000	27600	36800	41300	56000
AC-FT	1926000	1686000	1048000	1014000	967600	1247000	1087000	1307000	1995000	2390000	3246000	3412000

e Estimated.

MISSOURI-LEWIS AND CLARK RIVER BASIN

59

06467500 MISSOURI RIVER AT YANKTON, SD--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR, 1976 - 1995, BY WATER YEAR (WY)

MEAN	35190	30680	20060	17380	17240	18760	24720	28190	29500	31960	34050	35040
MAX	62570	62180	36790	26490	24320	31630	36470	38490	40900	46970	52780	57330
(WY)	1976	1976	1987	1987	1976	1976	1976	1979	1979	1978	1995	1995
MIN	17960	7723	12390	11510	10300	10930	11500	17520	17100	9006	11040	19200
(WY)	1993	1993	1991	1990	1991	1991	1993	1993	1984	1993	1993	1993

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

*WATER YEARS 1976 - 1995

ANNUAL TOTAL	9193300	107512i00	
ANNUAL MEAN	25190	29460	26940
HIGHEST ANNUAL MEAN			38220 1976
LOWEST ANNUAL MEAN			13640 1993
HIGHEST DAILY MEAN	32400 Sep 20	59100 Aug 21	63400 Nov 5 1975
LOWEST DAILY MEAN	16500 Jan 1	11700 Apr 20	5070 Mar 6 1992
ANNUAL SEVEN-DAY MINIMUM	16700 Dec 21	12700 Apr 20	5740 Mar 1 1992
INSTANTANEOUS PEAK FLOW (STAGE)		59600 Aug 21	63700 (23.07) Nov 5 1975
INSTANTANEOUS PEAK STAGE		18.61 Aug 21	23.17 Oct 6 1975
ANNUAL RUNOFF (AC-FT)	18230000	21330000	19510000
10 PERCENT EXCEEDS	31500	56600	38900
50 PERCENT EXCEEDS	27400	27400	27700
90 PERCENT EXCEEDS	17500	16500	13300

* Period of record since main-stem reservoirs reached maximum pool elevation (1976-95). See REMARKS.

MISSOURI RIVER MAIN STEM

06486000 MISSOURI RIVER AT SIOUX CITY, IA

LOCATION.--Lat. 42°29'09", long 96°24'49", in NW1/4 SE1/4 sec.16, T.29 N., R.9 E., sixth principal 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 mi², approximately. The 3,959 mi² 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 encoder. 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.--Estimated daily discharges: Dec. 3, 4, 13, Jan. 4, and Apr. 25. Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. U.S. Army Corps of Engineers rain-gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441,000 ft³/s Apr. 14, 1952, gage height, 24.28 ft, datum then in use; minimum, 2,500 ft³/s Dec. 29, 1941; minimum gage height, 7.83 ft Jan. 9, 1989.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31600	31100	19500	18200	18700	18000	33300	39400	65300	44600	44000	59000
2	31700	30900	19800	18100	18600	17900	32400	37700	63600	43900	43800	58200
3	32100	30700	e19700	18100	18800	18300	31800	37100	59100	43500	45900	58200
4	31800	30600	e19600	e17800	18300	18000	31300	39300	56600	43700	45800	58000
5	31800	30500	19600	17400	18700	18100	32000	41600	54800	44900	46200	58400
6	32000	30500	18800	18000	19500	17800	32300	39300	52100	44500	47000	58800
7	31900	30500	18400	17700	19200	16300	31900	38400	50400	43700	48700	58000
8	31900	30600	19200	17400	17900	16400	31800	40200	49000	44300	53800	57900
9	31700	30600	19300	17100	19600	17500	32100	38800	48200	44800	57100	57400
10	31600	30500	19000	17500	19500	18900	32800	38300	48500	44400	56200	57100
11	31700	30500	18100	19100	17800	18800	32700	41000	47700	44100	54300	56900
12	31700	30600	17700	20700	13900	19400	32200	40500	46600	44000	54300	57000
13	32000	30700	e19500	19300	20200	20400	31700	43500	46200	42900	55500	57100
14	32200	31000	18800	18400	18800	22500	31800	50800	45900	41600	55900	57200
15	32100	30700	18100	18000	17800	23900	32000	52100	45800	42700	58000	57200
16	32400	30700	19900	18200	18400	23900	31700	51900	45700	42800	60300	57500
17	32400	30800	19400	18400	19200	23600	31200	52800	45100	42400	60700	57700
18	32100	31200	18600	17400	19300	23800	32800	51800	46200	42200	61000	58500
19	32100	30700	18500	18200	19500	25500	38700	49100	45300	42000	59800	59800
20	31900	30900	18700	18000	19200	28200	40000	47800	44300	42200	59400	58600
21	31800	31400	18700	17300	19600	30900	37200	47300	43500	41600	59500	58200
22	31800	31000	18700	17100	20000	32300	41800	46900	44300	42000	59900	57800
23	31700	30800	18600	17000	19200	32800	46600	46900	44600	43900	58800	57200
24	31500	30700	18600	17900	19100	32200	48600	46100	44600	44500	54500	56800
25	31400	28700	18700	19000	19300	32200	e49200	44600	44800	44300	50800	56300
26	31400	26000	18800	17700	19700	33400	49400	43500	45300	46500	52200	56200
27	31400	24000	19000	19600	19500	34800	48800	43400	45200	45800	56300	56000
28	31300	21300	19100	18700	18600	34700	47000	50300	45400	45000	58600	56000
29	31300	19400	19100	18300	---	33800	44700	54900	45300	44300	58200	56400
30	31400	19200	19000	17700	---	34400	42100	56400	44700	44100	58000	57700
31	31400	---	18900	18700	---	34500	---	60700	---	43700	58800	---
TOTAL	985100	876800	587400	562000	527900	773200	1111900	1412400	1454100	1354900	1693300	1727100
MEAN	31780	29230	18950	18130	18850	24940	37060	45560	48470	43710	54620	57570
MAX	32400	31400	19900	20700	20200	34800	49400	60700	65300	46500	61000	59800
MIN	31300	19200	17700	17000	13900	16300	31200	37100	43500	41600	43800	56000
AC-FT	1954000	1739000	1165000	1115000	1047000	1534000	2205000	2801000	2884000	2687000	3359000	3426000

e Estimated

MISSOURI RIVER MAIN STEM

61

06486000 MISSOURI RIVER AT SIOUX CITY, IA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	34960	30310	18470	15930	16840	22130	32610	32770	34320	35670	36350	36270
MAX	63260	62930	36770	27720	27730	36270	50970	46250	54190	53720	63090	63290
(WY)	1976	1976	1987	1987	1983	1983	1969	1986	1971	1975	1975	1975
MIN	14350	6951	8271	7316	6293	10130	23480	23820	23270	26890	24270	25790
(WY)	1962	1962	1962	1964	1963	1958	1961	1962	1960	1958	1993	1962

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

*WATER YEARS 1958 - 1995

ANNUAL TOTAL	10994900		13066100			
ANNUAL MEAN	30120		35800			28930
HIGHEST ANNUAL MEAN						40750
LOWEST ANNUAL MEAN						20030
HIGHEST DAILY MEAN	49200	Jun 17	65300	Jun 1	103000	Jun 25 1984
LOWEST DAILY MEAN	13200	Jan 8	13900	Feb 12	3000	Dec 11 1961
ANNUAL SEVEN-DAY MINIMUM	17900	Jan 4	17500	Mar 3	5430	Feb 22 1963
INSTANTANEOUS PEAK FLOW			65900	Jun 1	101000	Apr 3 1960
INSTANTANEOUS PEAK STAGE			25.14	Jun 1	30.65	Feb 19 1971
INSTANTANEOUS LOW FLOW			12500	Feb 12		
ANNUAL RUNOFF (AC-FT)	21810000		25920000		20960000	
10 PERCENT EXCEEDS	37800		57200		44100	
50 PERCENT EXCEEDS	31400		32200		30000	
90 PERCENT EXCEEDS	19400		18300		12100	

a Post-regulation period.

OMAHA CREEK BASIN

06601000 OMAHA CREEK AT HOMER, NE

LOCATION.--Lat 42°19'29", long 96°29'43", in SW1/4 SE1/4 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 mi².

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

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

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 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	65	e70	e64	e66	e44	71	e96	e380	e98	68	41
2	67	66	84	e60	e70	e38	72	e100	e320	e96	61	41
3	137	63	82	e58	e68	e40	70	e104	e300	e94	61	42
4	86	65	75	e56	e62	e44	67	e120	e260	e92	59	41
5	80	66	e62	e52	e54	e38	70	e130	e250	e94	60	41
6	95	64	e54	e45	e52	e36	72	e125	e220	e104	64	43
7	82	64	e50	e36	e52	e34	71	e120	e190	e92	57	41
8	73	64	e48	e30	e48	e30	74	e110	e180	e88	55	40
9	71	65	e50	e38	e44	e40	104	e130	e190	e86	50	41
10	70	63	e45	e44	e48	e70	110	e170	e180	e84	49	40
11	68	62	e40	e50	e44	249	122	e150	e170	82	48	39
12	68	63	e41	e56	e36	136	127	e145	e165	80	46	44
13	68	64	e48	e62	e44	86	110	e140	e160	73	45	43
14	68	61	e50	e64	e42	79	106	e135	e150	70	48	39
15	68	59	e54	e66	e48	81	105	e130	e145	73	47	37
16	83	60	e56	e66	e52	76	104	e125	e140	75	50	36
17	89	63	e58	e64	e55	71	119	e120	e135	70	50	35
18	95	71	e62	e62	e70	81	229	e116	e130	67	47	88
19	78	60	e66	e60	e84	83	191	e110	e125	66	46	196
20	72	67	e68	e58	e80	81	199	e104	e124	66	44	83
21	71	119	e72	e58	e70	75	224	e100	e122	65	43	63
22	70	77	e70	e60	e60	72	e170	e96	e120	67	58	54
23	67	70	e68	e62	e54	70	e140	e116	e118	66	155	52
24	69	70	e66	e64	e56	67	e120	e106	e116	65	85	50
25	67	66	e68	e66	e52	73	e110	e100	e112	63	52	50
26	67	66	e70	e68	e50	95	e104	e98	e110	61	49	48
27	73	77	e70	e70	e46	86	e96	e200	e108	60	48	47
28	70	75	e76	e72	e40	76	e94	e800	e105	57	47	46
29	67	72	e78	e70	---	73	e92	e700	e102	56	45	47
30	66	e66	e70	e64	---	71	e94	e500	e100	54	43	54
31	66	---	e64	e60	---	71	---	e430	---	56	40	---
TOTAL	2332	2033	1935	1805	1547	2266	3437	5726	5027	2320	1720	1562
MEAN	75.2	67.8	62.4	58.2	55.2	73.1	115	185	168	74.8	55.5	52.1
MAX	137	119	84	72	84	249	229	800	380	104	155	196
MIN	61	59	40	30	36	30	67	96	100	54	40	35
AC-FT	4630	4030	3840	3580	3070	4490	6820	11360	9970	4600	3410	3100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	20.6	18.8	16.3	16.2	46.9	72.4	53.8	56.8	85.8	50.7	29.5	24.4
MEAN	20.6	18.8	16.3	16.2	46.9	72.4	53.8	56.8	85.8	50.7	29.5	24.4
MAX	89.6	75.2	62.4	82.0	472	315	426	248	356	271	181	131
(WY)	1994	1994	1995	1973	1971	1993	1985	1984	1967	1993	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	30758	31710	
ANNUAL MEAN	84.3	86.9	40.9
MEDIAN OF ANNUAL MEANS			32.3
HIGHEST ANNUAL MEAN			130
LOWEST ANNUAL MEAN			6.20
HIGHEST DAILY MEAN	1450	800	6840
LOWEST DAILY MEAN	28	30	.10
ANNUAL SEVEN-DAY MINIMUM	37	37	.16
INSTANTANEOUS PEAK FLOW		2970	18100
INSTANTANEOUS PEAK STAGE		**8.57	**28.47
ANNUAL RUNOFF (AC-FT)	61010	62900	29650
10 PERCENT EXCEEDS	112	135	73
50 PERCENT EXCEEDS	64	68	16
90 PERCENT EXCEEDS	44	44	4.0

e Estimated.

* Sometime during period May 16 to June 28, but most likely occurred this day after comparison with nearby station and checking the precipitation record.

** From floodmark.

MISSOURI MAIN STEM

63

06601200 MISSOURI RIVER AT DECATUR, NE

LOCATION.--Lat 42°00'26", long 96°14'29", in NE1/4 SW1/4 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 mi², approximately. The 3,959 mi² in Great Divide basin are not included.

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

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

REMARKS.--Records good. Flow regulated by upstream main-stem reservoirs. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32100	31800	20000	19000	19300	18900	34000	41000	62900	45900	44300	60300
2	32300	31500	20000	18500	19000	18600	32800	39200	64500	45400	44300	60000
3	32600	31400	19900	18700	19300	18800	32100	38300	61500	44600	45200	59500
4	32700	31300	20000	18300	19200	19000	31500	39000	58200	44500	46100	59300
5	32300	31400	19900	17900	18500	19100	31700	42100	57300	45200	46000	59000
6	32600	31200	19300	17900	19600	19300	32700	41500	55300	45600	47300	59200
7	32400	31200	18800	18800	20000	18400	32300	38900	52700	44500	47600	59000
8	32500	31200	18700	18000	19100	17300	32100	39500	51200	44600	52200	58400
9	32400	31200	19400	18100	18900	17900	32200	40300	49800	45100	56500	58400
10	32100	31300	19300	17800	20500	19200	33100	38600	49800	45000	57400	58000
11	32000	31200	18900	18300	19500	20700	33600	40200	49200	44800	55800	57800
12	32200	31300	18200	20300	16600	20900	33000	42300	47700	44700	54800	57700
13	32300	31400	18400	20600	17100	21800	32400	41700	46900	44400	56500	57300
14	32700	31400	20000	19100	20400	22900	32300	48900	46900	42900	57000	57100
15	32700	31500	18700	18700	18900	24400	32400	52900	47000	43000	58800	57300
16	33000	31500	19500	18500	18900	24800	32700	52800	47300	44000	60700	57700
17	33400	31500	20400	18700	19400	24100	31900	52800	46800	43600	61300	57700
18	32900	31600	19300	18500	20300	23700	32200	53500	47600	43400	61300	58700
19	32900	31600	18600	17900	20700	24400	36500	51200	47700	43000	61200	60100
20	32600	31400	18900	18800	20800	26500	41700	49000	46700	42900	60300	59200
21	32300	31800	19100	18100	20800	29100	39400	48300	46200	42800	60200	58200
22	32200	31500	19100	17600	21500	31500	40200	47700	46400	42400	60900	58000
23	32200	31000	19100	17500	21000	32400	45700	47400	47500	43600	61800	57400
24	32100	30900	19000	17600	20400	32800	49100	47500	47300	45000	58400	56900
25	31800	30200	19000	18500	20300	32600	49600	45700	46900	44600	53900	56500
26	31900	27900	19200	18700	20300	34400	49600	44600	47000	46000	52600	56400
27	32000	25800	19400	18400	20500	36300	49100	44300	47200	47000	55500	56400
28	31900	23900	19300	19700	20000	37800	47300	49900	47300	46200	58900	56400
29	31900	21100	19400	18700	---	36600	45000	55500	47000	45500	59600	57000
30	31800	20200	19400	18200	---	35600	43200	57500	46400	45100	59300	58100
31	31800	---	19400	18100	---	35400	---	59000	---	44700	59700	---
TOTAL	1002600	902200	597600	573500	550800	795200	1121400	1431100	1506200	1380000	1715400	1743000
MEAN	32340	30070	19280	18500	19670	25650	37380	46160	50210	44520	55340	58100
MAX	33400	31800	20400	20600	21500	37800	49600	59000	64500	47000	61800	60300
MIN	31800	20200	18200	17500	16600	17300	31500	38300	46200	42400	44300	56400
AC-FT	1989000	1790000	1185000	1138000	1093000	1577000	2224000	2839000	2988000	2737000	3402000	3457000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

MEAN	29410	19560	16040	16050	16910	20810	30140	33150	34740	35250	32680	34040
MAX	33830	32870	20390	20750	24220	33740	37380	46160	50210	51480	55340	58100
(WY)	1989	1988	1988	1994	1994	1994	1995	1995	1995	1993	1995	1995
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1988 - 1995

ANNUAL TOTAL	11383400	13319000	
ANNUAL MEAN	31190	36490	26600
HIGHEST ANNUAL MEAN			36490
LOWEST ANNUAL MEAN			21450
HIGHEST DAILY MEAN	48300	Jun 18	75600
LOWEST DAILY MEAN	14100	Jan 8	7130
ANNUAL SEVEN-DAY MINIMUM	18800	Jan 4	9660
INSTANTANEOUS PEAK FLOW			64900
INSTANTANEOUS PEAK STAGE		30.10	76400
INSTANTANEOUS LOW FLOW		14400	32.10
ANNUAL RUNOFF (AC-FT)	22580000	26420000	19270000
10 PERCENT EXCEEDS	39200	57700	37500
50 PERCENT EXCEEDS	32400	32700	27300
90 PERCENT EXCEEDS	20000	18800	12800

MISSOURI MAIN STEM

06610000 MISSOURI RIVER AT OMAHA, NE

LOCATION.--Lat 41°15'32", long 95°55'20", in SE1/4 NW1/4 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 mi², approximately. The 3,959 mi² 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 encoder. 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.--Estimated daily discharges: July 19. Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. U.S. Army Corps of Engineers rain-gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 396,000 ft³/s Apr. 18, 1952, gage height, 40.20 ft, present datum; minimum, about 2,200 ft³/s Jan. 6, 1937; minimum gage height, 6.85 ft, present datum, Feb. 5, 1989, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35900	35700	23600	22000	20500	24400	41100	49700	74000	54700	49600	62000
2	36100	35500	23900	21400	21700	22300	39600	47800	76900	54200	49300	62900
3	36200	35000	24100	20700	22000	21800	38100	47200	80300	53300	49300	62500
4	36500	35000	24200	20800	22500	22200	37700	47600	77300	52400	49900	61500
5	36600	34700	24300	20500	22100	22800	37800	50100	72000	52700	50400	61100
6	36200	34800	24000	20000	21200	22700	37700	53000	70400	53200	50300	60900
7	36600	34400	22800	19900	21900	22600	38200	51100	67400	53100	51200	61100
8	36800	34300	21800	20600	22100	20900	37500	51000	64200	51600	52100	60700
9	36400	34200	21900	20100	21300	19900	37500	54400	61700	51200	56000	59900
10	36300	34200	23100	19900	21100	20600	38700	54300	59900	51200	59900	59800
11	35900	34400	23100	19800	22600	22600	39900	50200	59800	51100	61200	59400
12	35700	34300	22600	20400	21600	31200	40600	50600	58200	50600	59400	59700
13	36000	34500	21600	22500	18900	30700	40300	52200	56100	50500	58300	59800
14	36400	34500	21800	23300	18700	30800	39700	53600	55000	49800	59500	59400
15	36900	34600	23500	21900	22400	31300	39400	60700	55500	48800	60300	59000
16	37100	34700	22400	21200	21200	32300	40200	65500	55800	51000	62600	59600
17	37700	35000	22800	21100	20900	32900	40800	65600	55600	50700	65400	59800
18	38100	35200	23900	21400	21500	31800	40800	65000	54700	48800	65900	60700
19	37600	35500	23000	21400	22600	31300	42400	64600	55000	47600	65000	62800
20	37200	35500	22100	20700	23900	31900	47900	62200	54400	47600	64300	64500
21	37000	36000	22300	21500	25800	34200	52600	59600	53300	47800	63100	64600
22	36800	36400	22500	20900	27800	36800	50900	58700	52500	48000	62500	62600
23	36500	35900	22500	20400	28700	38900	50700	57500	52600	47800	63700	61200
24	36400	35200	22400	20300	27600	39200	54700	57200	53500	49700	65100	60000
25	36300	35000	22200	20500	26200	38900	57600	56500	53100	51000	63000	59600
26	36100	33800	22100	21600	25600	38800	59700	54400	53100	50400	58600	58900
27	36000	32000	22100	22300	25500	40200	58600	53800	54700	52000	57200	58700
28	36000	30200	22200	21600	25500	42100	56700	57800	56500	52400	59200	58400
29	35700	28200	22300	22700	---	43100	54600	70400	56200	51200	61800	58600
30	35500	25100	22300	21600	---	42400	52000	74600	55300	50300	62100	59900
31	35600	---	22300	20900	---	41600	---	73800	---	49700	61700	---
TOTAL	1130100	1023800	705700	653900	643400	963200	1344000	1770700	1805000	1574400	1817900	1819600
MEAN	36450	34130	22760	21090	22980	31070	44800	57120	60170	50790	58640	60650
MAX	38100	36400	24300	23300	28700	43100	59700	74600	80300	54700	65900	64600
MIN	35500	25100	21600	19800	18700	19900	37500	47200	52500	47600	49300	58400
MED	36400	34700	22500	20900	22100	31300	40700	54400	55900	51000	59900	59900
AC-FT	2242000	2031000	1400000	1297000	1276000	1911000	2666000	3512000	3580000	3123000	3606000	3609000
CFSM	.11	.10	.07	.06	.07	.10	.14	.17	.18	.16	.18	.19
IN.	.13	.12	.08	.07	.07	.11	.15	.20	.21	.18	.21	.21

e Estimated

MISSOURI MAIN STEM

65

06610000 MISSOURI RIVER AT OMAHA, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	37320	33160	20460	17470	19420	27400	38480	37630	40370	39930	38690	38710
MAX	64410	66130	42800	33250	36590	53980	66320	60430	75730	78560	64830	65020
(WY)	1976	1976	1987	1987	1983	1983	1969	1986	1984	1993	1975	1975
MIN	16920	8324	8296	8425	8162	12090	24630	26450	26890	27150	27280	28290
(WY)	1962	1962	1962	1964	1963	1958	1959	1961	1961	1958	1958	1958

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		*WATER YEARS 1958 - 1995	
ANNUAL TOTAL	13120400		15251700			
ANNUAL MEAN	35950		41790		32460	
HIGHEST ANNUAL MEAN					46090	
LOWEST ANNUAL MEAN					20790	
HIGHEST DAILY MEAN	62100	Jun 27	80300	Jun 3	116000	Apr 4 1960
LOWEST DAILY MEAN	17900	Jan 9	18700	Feb 14	2440	Dec 14 1961
ANNUAL SEVEN-DAY MINIMUM	22000	Jan 16	20100	Jan 6	4650	Dec 10 1961
INSTANTANEOUS PEAK FLOW			81100	Jun 3	120000	Apr 1 1960
INSTANTANEOUS PEAK STAGE			26.31	Jun 3	30.26	Jul 10 1993
INSTANTANEOUS LOW FLOW			17200	Feb 14		
ANNUAL RUNOFF (AC-FT)	26020000		30250000		23520000	
ANNUAL RUNOFF (CFSM)	.11		.13		.099	
ANNUAL RUNOFF (INCHES)	1.49		1.74		1.35	
10 PERCENT EXCEEDS	46400		61700		50700	
50 PERCENT EXCEEDS	36400		38900		32600	
90 PERCENT EXCEEDS	23000		21600		1440	

a Post-regulation period.

PLATTE RIVER BASIN

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'19", long 104°03'10", in SE¹/₄ SE¹/₄ SE¹/₄ 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 mi², of which 1,929 mi² is probably non-contributing.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Sheet-piling control since 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.--Estimated daily discharges: Dec. 10, Dec. 31 to Jan. 8, and Feb. 11-16. Records fair 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. Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	296	252	200	202	184	163	202	3220	1810	1290	1300
2	366	290	251	205	205	184	167	202	2970	1980	1230	1290
3	364	288	247	197	197	182	167	201	2990	1940	1200	1260
4	366	285	248	189	195	183	165	196	3150	1700	1240	1240
5	395	283	240	191	193	178	166	193	3640	1450	1240	1210
6	388	282	239	178	193	178	166	202	3830	1270	1250	1190
7	446	281	238	186	193	175	166	214	3730	1100	1270	1190
8	416	281	239	197	191	175	161	433	3880	991	1250	1190
9	388	279	237	204	188	176	160	354	4670	1270	1250	1110
10	377	279	222	212	186	172	163	285	5210	1310	1270	1050
11	369	279	231	217	180	176	162	294	5480	1360	1290	1080
12	373	279	231	214	173	178	166	315	5490	1370	1300	1010
13	359	277	231	210	170	175	173	339	5270	1370	1260	913
14	344	272	234	209	167	176	175	336	5120	1400	1240	856
15	370	271	230	210	171	177	173	341	4750	1390	1260	843
16	370	271	226	212	178	175	173	248	4520	1360	1270	846
17	366	269	225	204	183	174	176	311	4570	1430	1290	848
18	355	261	228	201	191	177	176	256	4690	1480	1300	860
19	340	262	231	200	188	177	180	224	4500	1500	1290	845
20	332	262	225	203	189	179	183	248	4390	1410	1300	842
21	325	260	223	201	193	178	183	272	4270	1280	1320	811
22	319	258	226	198	191	174	184	249	3890	1290	1330	715
23	316	255	224	196	189	169	182	239	3690	1320	1200	796
24	310	255	222	196	189	171	184	289	3480	1340	1280	787
25	307	256	223	198	188	168	181	933	3050	1310	1280	686
26	306	257	223	200	190	165	180	1630	2870	1280	1260	624
27	305	254	223	206	187	163	196	2290	2410	1260	1260	576
28	305	248	222	210	186	159	196	2910	2500	1190	1240	657
29	299	244	222	203	---	158	195	3340	2020	1270	1250	758
30	299	246	221	199	---	160	197	3460	1790	1110	1240	804
31	299	---	210	199	---	159	---	3420	---	1230	1260	---
TOTAL	10842	8080	7144	6245	5246	5375	5259	24426	116040	42771	39210	28187
MEAN	350	269	230	201	187	173	175	788	3868	1380	1265	940
MAX	446	296	252	217	205	184	197	3460	5490	1980	1330	1300
MIN	299	244	210	178	167	158	160	193	1790	991	1200	576
AC-FT	21510	16030	14170	12390	10410	10660	10430	48450	230200	84840	77770	55910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

MEAN	513	431	383	338	345	497	600	1166	1633	1528	1274	874
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1929 - 1995

ANNUAL TOTAL	177882	298825	--
ANNUAL MEAN	487	819	781
HIGHEST ANNUAL MEAN	--	--	2863
LOWEST ANNUAL MEAN	--	--	388
HIGHEST DAILY MEAN	1750	Jul 15	5490
LOWEST DAILY MEAN	142	Apr 21	158
ANNUAL SEVEN-DAY MINIMUM	146	Apr 18	161
INSTANTANEOUS PEAK FLOW	--	--	5660
INSTANTANEOUS PEAK STAGE	--	--	5.72
ANNUAL RUNOFF (AC-FT)	352800	592700	565600
10 PERCENT EXCEEDS	1160	1860	1440
50 PERCENT EXCEEDS	279	277	488
90 PERCENT EXCEEDS	166	176	210

a Maximum observed.

b Site and datum then in use.

PLATTE RIVER BASIN

67

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	TEMPER- ATURE WATER (°C)	TEMPER- ATURE AIR (°C)
OCT					
06...	0930	390	935	13.0	4.0
NOV					
15...	1620	265	976	6.0	7.0
DEC					
02...	1710	225	994	4.0	9.5
JAN					
24...	1715	206	1010	5.0	1.5
FEB					
28...	1740	187	993	5.0	-7.0
APR					
06...	1110	162	986	12.5	11.5
JUN					
26...	0930	2960	699	18.0	19.0
AUG					
03...	1630	1260	732	21.5	26.5
SEP					
13...	0930	920	627	16.0	17.0

PLATTE RIVER BASIN

06690000 LAKE MCCONAUGHY NEAR KEYSTONE, NE

LOCATION.--Lat 41°12'45", long 101°40'03", in NW1/4SW1/4 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 mi², approximately, of which about 25,800 mi² 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, 1,783,000 acre-ft July 4, elevation, 3,266.3 ft; minimum observed, 1,235,000 acre-ft Oct. 1, elevation, 3,246.4 ft.

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	3,246.3	1,233,000	--
Oct. 31.....	3,249.0	1,299,000	+66,000
Nov. 30.....	3,250.6	1,339,000	+40,000
Dec. 31.....	3,252.2	1,380,000	+41,000
CAL YR 1994	--	--	-39,000
Jan. 31.....	3,253.5	1,414,000	+34,000
Feb. 29.....	3,254.8	1,449,000	+35,000
Mar. 31.....	3,256.1	1,484,000	+35,000
Apr. 30.....	3,257.4	1,520,000	+36,000
May 31.....	3,259.7	1,586,000	+66,000
June 30.....	3,266.1	1,777,000	+191,000
July 31.....	3,262.6	1,670,000	-107,000
Aug. 31.....	3,256.7	1,501,000	-169,000
Sept. 30.....	3,254.0	1,427,000	-74,000
WTR YR 1995.....	--	--	+194,000

PLATTE RIVER BASIN

69

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION.--Lat 40°58'46", long 102°15'15", in NW1/4 NE1/4 and NE1/4 SE1/4 (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, 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 mi².

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.--Two 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.

REMARKS.--Estimated daily discharges: Nov. 19-25, Jan. 2-20, May 29-31, June 1-7, and July 14-17. 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 collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	82	87	135	269	249	142	226	6540	7270	1110	65
2	76	86	149	136	261	232	178	205	7250	7380	996	66
3	90	86	205	136	252	253	199	190	7870	8090	922	65
4	107	88	215	141	247	263	209	175	10400	8570	909	58
5	160	86	215	141	236	274	225	174	13500	8040	775	56
6	287	84	221	141	231	297	219	201	12700	7670	666	58
7	350	84	260	151	224	277	192	218	11700	7360	573	59
8	289	84	294	177	220	263	196	248	11400	6980	508	61
9	199	88	250	202	214	261	200	256	11400	6410	408	66
10	174	100	251	227	212	237	215	289	12300	5810	270	89
11	183	104	257	252	214	209	211	289	13800	5160	212	115
12	184	104	263	277	216	193	214	278	13500	4730	183	181
13	194	98	273	302	221	156	237	265	12700	4410	162	304
14	237	92	279	327	221	136	263	241	14000	4210	156	455
15	263	90	261	352	231	126	253	235	13800	4880	146	584
16	190	92	262	332	244	117	243	235	12000	4090	135	598
17	162	89	268	322	256	134	257	241	10600	3910	119	612
18	140	84	257	312	325	126	298	221	10200	4170	98	629
19	131	89	244	308	365	124	300	193	10400	4050	88	685
20	130	88	234	291	328	107	336	209	10900	3820	86	767
21	123	70	227	281	297	109	337	211	11300	3570	86	827
22	116	64	234	260	293	108	348	1020	11700	3520	83	897
23	107	76	234	243	277	100	344	2490	12600	3630	81	1030
24	100	77	236	239	267	97	321	3130	11800	3430	78	1250
25	94	79	236	246	285	94	297	3440	10700	3060	72	1520
26	94	76	234	257	274	109	284	3500	10200	2570	68	1640
27	92	71	240	253	274	101	230	3630	9740	2250	68	1500
28	84	70	244	253	257	104	216	4080	8980	1880	70	1370
29	84	73	247	249	---	101	193	4430	8230	1570	64	1340
30	86	81	258	257	---	99	222	4850	7630	1330	61	1250
31	83	---	239	260	---	100	---	5540	---	1220	62	---
TOTAL	4679	2535	7374	7460	7211	5156	7379	40910	329840	145040	9315	18197
MEAN	151	84.5	238	241	258	166	246	1320	10990	4679	300	607
MAX	350	104	294	352	365	297	348	5540	14000	8570	1110	1640
MIN	70	64	87	135	212	94	142	174	6540	1220	61	56
AC-FT	9280	5030	14630	14800	14300	10230	14640	81140	654200	287700	18480	36090

PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 1995, BY WATER YEAR (WY)

MEAN	289	346	403	512	601	553	556	1070	1469	313	153	225
MAX	2427	2358	1371	1566	1864	2200	2808	9922	12200	5059	1346	1964
(WY)	1985	1985	1985	1970	1930	1939	1983	1980	1983	1983	1983	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1902 - 1995	
ANNUAL TOTAL	90311	585096				
ANNUAL MEAN	247	1603	544			
HIGHEST ANNUAL MEAN	2882	1983				
LOWEST ANNUAL MEAN	76.3	1956				
HIGHEST DAILY MEAN	1150	Jan 21	14000	Jun 14	30800	Jun 16 1921
LOWEST DAILY MEAN	12	Sep 9	56	Sep 5	^a .00	Aug 18 1902
ANNUAL SEVEN-DAY MINIMUM	13	Sep 6	60	Sep 2	.00	Jul 25 1903
INSTANTANEOUS PEAK FLOW			14800	Jun 14	37600	Jun 20 1965
INSTANTANEOUS PEAK STAGE			^b 9.47	Jun 14	^c 10.44	Jun 20 1965
ANNUAL RUNOFF (AC-FT)	179100		1161000		394200	
10 PERCENT EXCEEDS	793		7090		1130	
50 PERCENT EXCEEDS	100		243		222	
90 PERCENT EXCEEDS	17		84		28	

a Also occurred Aug. 19-20, 1902, and July 25 to Aug. 7, 1903.

b For stage recorded on channel no. 2.

c From floodmarks in gage well.

PLATTE RIVER BASIN

71

06764880 SOUTH PLATTE RIVER AT ROSCOE, NE

LOCATION.--Lat 41°07'33" long 101°34'35", in NW1/4SW1/4 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.

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

GAGE.--Water-stage recorder. Elevation of gage is 3,150 ft, from topographic map.

REMARKS.--Record poor from Oct. 1 to Apr. 3 and good thereafter. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	63	92	e110	289	e1100	148	279	6260	9600	1280	64
2	.00	63	94	e98	278	e950	163	257	7480	9320	1160	72
3	1.5	63	e92	e88	264	e800	196	244	8250	10300	1070	73
4	26	70	e88	e100	255	e620	218	230	10700	12200	1050	69
5	29	72	e84	e110	243	e500	238	221	16100	11900	970	61
6	47	71	e78	e120	235	e420	246	222	18100	10300	844	58
7	39	77	e76	e125	224	e280	261	235	16300	9580	730	56
8	91	73	e74	e130	231	e190	249	260	15300	8930	630	58
9	175	74	e72	e130	236	e150	254	299	15300	7890	533	60
10	176	78	e70	e125	230	e130	256	290	14700	6780	460	59
11	139	79	e74	e125	214	e140	259	315	16500	5800	362	79
12	130	82	e76	e130	e190	e155	260	337	17000	4960	278	96
13	136	83	e80	e130	e175	e165	272	328	15500	4670	229	123
14	125	80	e86	e130	e150	e170	268	303	14800	4610	233	148
15	167	77	e88	e130	e140	e155	272	290	17700	6160	258	237
16	219	77	e90	e130	e140	150	267	279	17300	5660	240	334
17	187	76	e96	e125	e160	154	272	265	14100	4960	178	394
18	157	73	e100	e125	e210	156	309	278	12300	5330	135	442
19	129	74	e110	e125	e270	150	355	281	12100	5650	114	445
20	116	84	e114	e125	e520	142	402	266	12500	5450	108	492
21	109	81	e116	e125	610	146	398	253	13500	5270	104	556
22	98	81	e118	e130	598	137	395	251	14400	4800	97	627
23	91	79	e124	e135	604	160	401	1000	15900	4850	93	698
24	84	82	e130	e140	796	162	387	2020	17000	4890	92	827
25	86	85	e135	e150	1090	166	363	2790	14800	4620	89	1020
26	89	87	e135	e165	1600	186	328	3240	13400	3690	84	1270
27	78	87	e130	e180	e1500	183	301	3680	13000	2920	82	1370
28	76	85	e125	e210	e1300	176	269	3580	12300	2450	77	1270
29	68	82	e120	e260	---	163	252	3980	11200	1960	78	1190
30	67	86	e110	e290	---	160	274	4420	10300	1570	72	1160
31	67	---	e100	304	---	151	---	5060	---	1440	65	---
TOTAL	3002.50	2324	3077	4500	12752	8467	8533	35753	414090	188510	11795	13408
MEAN	96.9	77.5	99.3	145	455	273	284	1153	13800	6081	380	447
MAX	219	87	135	304	1600	1100	402	5060	18100	12200	1280	1370
MIN	.00	63	70	88	140	130	148	221	6260	1440	65	56
AC-FT	5960	4610	6100	8930	25290	16790	16930	70920	821300	373900	23400	26590

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	491	459	561	936	1152	918	969	1597	2943	982	239	517	
MAX	2392	2183	1323	1693	2280	1519	2767	7044	13800	6081	1479	1935	
(WY)	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MIN	96.9	77.5	98.5	145	455	273	199	76.7	50.8	13.1	6.45	.12	
(WY)	1995	1995	1990	1995	1995	1995	1989	1992	1994	1990	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	76855.92	706211.50	
ANNUAL MEAN	211	1935	976
HIGHEST ANNUAL MEAN			2941
LOWEST ANNUAL MEAN			281
HIGHEST DAILY MEAN	847	18100	18100
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	20	.00
INSTANTANEOUS PEAK FLOW		20100	20100
INSTANTANEOUS PEAK STAGE		11.29	11.29
ANNUAL RUNOFF (AC-FT)	152400	401000	707300
10 PERCENT EXCEEDS	658	8030	2020
50 PERCENT EXCEEDS	85	214	408
90 PERCENT EXCEEDS	.77	75	33

PLATTE RIVER BASIN

06765500 SOUTH PLATTE RIVER AT NORTH PLATTE, NE
(National Water-Quality Assessment, NAWQA, station)

LOCATION.--Lat 41°07'05", long 100°46'22", in NE1/4 NE1/4 sec.8, T.13 N., R.30 W., Lincoln County, Hydrologic Unit 10190018, on left bank 0.5 mi downstream from bridge on U.S. Highway 83, 0.7 mi northwest of intersection of U.S. Highway 83 and Interstate 80 south of North Platte, and 5.5 mi upstream from confluence with North Platte River.

DRAINAGE AREA.--24,300 mi², approximately.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. (ft ³ /S (00061)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (° C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CaCO ₃ (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)
OCT 1994											
12...	1100	151	1300	8.4	11.5	690	10.1	440	240	120	35
NOV											
01...	1030	144	1120	8.5	8.0	682	10.8	430	230	120	31
DEC											
08...	1100	173	1470	8.4	1.5	695	13.9	470	280	130	35
JAN 1995											
20...	1030	205	--	8.5	2.0	690	11.2	520	300	140	41
FEB											
09...	1100	239	1520	8.4	2.0	688	12.4	480	--	130	38
MAR											
02...	1430	195	1310	8.4	1.5	695	12.9	440	--	120	33
APR											
11...	1130	215	1390	8.5	2.0	679	13.1	440	250	120	35
MAY											
26...	1030	534	1110	8.1	13.0	690	8.2	370	220	100	30
JUN											
09...	1130	11900	995	8.1	15.0	695	9.7	280	130	73	24
21...	1230	9750	910	8.4	23.5	690	7.2	290	140	75	25
JUL											
18...	1100	3280	952	8.3	22.0	692	7.8	310	130	81	26
AUG											
07...	1300	436	1120	8.6	25.5	685	10.4	350	180	92	30
SEP											
13...	1100	282	1100	8.0	17.5	690	10.8	350	150	93	28

DATE	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINIT- Y WAT DIS TOT IT FIELD (MG/L AS CaCO ₃) (39086)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO ₃) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO ₃) (00453)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, RESIDUE AT 180 ° C DIS- SOLVED (MG/L) (70300)
OCT 1994											
12...	110	2	15	200	0	244	410	53	0.60	34	926
NOV											
01...	100	2	14	194	5	227	340	46	0.60	36	840
DEC											
08...	110	2	15	190	2	227	410	55	0.50	33	968
JAN 1995											
20...	130	2	14	218	0	266	460	63	0.60	31	1140
FEB											
09...	120	2	14	--	--	--	460	60	0.60	32	1060
MAR											
02...	100	2	15	--	--	--	380	51	0.60	33	934
APR											
11...	110	2	13	192	0	234	430	57	0.60	30	988
MAY											
26...	90	2	12	157	0	192	320	47	0.70	22	768
JUN											
09...	64	2	11	150	0	183	280	43	0.70	23	708
21...	71	2	8.0	152	6	173	240	37	0.80	10	607
JUL											
18...	77	2	8.0	182	0	222	270	39	0.70	18	660
AUG											
07...	95	2	12	176	10	195	330	47	0.60	23	716
SEP											
13...	95	2	12	199	0	243	310	43	0.60	24	758

PLATTE RIVER BASIN

73

06765500 SOUTH PLATTE RIVER AT NORTH PLATTE, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 1994										
12...	901	1.26	378	--	<0.010	0.810	<0.015	0.70	--	0.70
NOV 01...	810	1.14	327	--	<0.010	1.30	<0.015	0.40	--	0.40
DEC 08...	910	1.32	452	1.78	0.020	1.80	0.070	0.43	0.23	0.50
JAN 1995										
20...	1020	1.55	631	2.19	0.010	2.20	0.030	0.57	0.17	0.60
FEB 09...	1000	1.44	684	2.09	0.010	2.10	0.030	0.37	--	0.40
MAR 02...	875	1.27	492	1.99	0.010	2.00	0.040	0.26	--	0.30
APR 11...	917	1.34	574	--	<0.010	1.50	<0.015	0.50	--	0.50
MAY 26...	721	1.04	1110	--	<0.010	1.00	<0.015	0.50	--	0.50
JUN 09...	611	0.96	22700	--	<0.010	0.270	0.020	1.5	0.58	1.5
21...	559	0.83	16000	--	<0.010	0.170	0.020	0.68	0.48	0.70
JUL 18...	635	0.90	5840	--	<0.010	1.30	0.020	0.38	0.28	0.40
AUG 07...	736	0.97	843	--	<0.010	<0.050	0.020	1.2	--	1.2
SEP 13...	728	1.03	577	--	<0.010	0.570	<0.015	0.50	--	0.50

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS DIS- SOLVED (µ G/L AS P) (00665)	IRON, DIS- SOLVED (µ S/CM AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ S/CM AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)
OCT 1994										
12...	0.30	1.5	1.1	0.020	0.010	0.060	3	4	4.2	1.7
NOV 01...	0.20	1.7	1.5	0.030	0.030	0.040	<3	2	2.8	0.4
DEC 08...	0.30	2.3	2.1	0.040	0.040	0.080	<3	3	2.8	0.7
JAN 1995										
20...	0.20	2.8	2.4	0.060	0.060	0.120	<60	<20	3.6	0.7
FEB 09...	<0.20	2.5	--	0.060	0.050	0.070	<3	3	3.1	1.0
MAR 02...	<0.20	2.3	--	0.050	0.060	0.070	<3	3	2.6	0.8
APR 11...	<0.20	2.0	--	<0.010	0.020	0.050	<3	6	2.7	1.6
MAY 26...	0.40	1.5	1.4	0.050	0.060	0.060	16	8	6.6	2.1
JUN 09...	0.60	1.8	0.87	0.190	0.210	0.330	22	16	10	2.3
21...	0.50	0.87	0.67	0.210	0.210	0.270	14	14	8.0	1.5
JUL 18...	0.30	1.7	1.6	0.190	0.190	0.180	<3	7	5.1	2.9
AUG 07...	<0.20	1.2	--	<0.010	<0.010	0.150	6	6	4.2	3.0
SEP 13...	<0.20	1.1	--	0.030	0.030	0.090	<3	9	3.1	0.5

PLATTE RIVER BASIN

06765698 TRI-COUNTY CANAL (1.25 MI BELOW DIVERSION) NEAR NORTH PLATTE, NE
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY RECORDS

LOCATION.--Lat 41° 05' 40", long 100° 40' 33", in NW1/4 SW1/2 sec. 17, T. 13N., R. 29W., Lincoln County, Hydrologic Unit 10200101, at bridge 900 ft south of Interstate Highway 80, 1.25 mi south of diversion dam, and 6 mi southeast of North Platte.

PERIOD OF RECORD.--Water years 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CaCO ₃ (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
MAR	13... 1600	1120	932	8.5	11.0	690	11.6	280	14	74	23
MAY	26... 1130	2200	981	8.5	13.0	690	8.8	290	140	75	26
JUN	09... 1400	13300	986	8.2	15.5	695	9.6	320	170	83	28
JUL	19... 1215	2200	931	8.4	24.0	690	8.0	280	130	71	24

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CaCO ₃ (39086)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO ₃ (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)
MAR 13...	84	2	11	265	13	297	240	31	0.50	27
MAY 26...	91	2	11	150	0	183	280	37	0.60	17
JUN 09...	77	2	12	156	0	190	280	42	0.70	19
JUL 19...	77	2	8.7	144	11	154	250	35	0.70	14

DATE	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
MAR 13...	615	653	0.84	1860	--	<0.010	0.840	0.040	0.46	0.26
MAY 26...	671	630	0.91	3990	0.570	0.010	0.580	<0.015	0.30	--
JUN 09...	700	637	0.95	25100	--	<0.010	0.300	0.030	0.97	0.57
JUL 19...	617	571	0.84	3660	--	<0.010	0.870	0.020	0.78	0.28

PLATTE RIVER BASIN

75

06765698 TRI-COUNTY CANAL (1.25 MI BELOW DIVERSION) NEAR NORTH PLATTE, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (µ G/L AS AL) (01106)	BARIUM, DIS- SOLVED (µ G/L AS BA) (01005)	COBALT, DIS- SOLVED (µ G/L AS CO) (01035)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)
MAR 13...	0.50	0.30	1.3	1.1	0.030	0.020	--	--	--	5
MAY 26...	0.30	0.30	0.88	0.88	0.020	0.020	--	--	--	5
JUN 09...	1.0	0.60	1.3	0.90	0.170	0.180	--	--	--	22
JUL 19...	0.80	0.30	1.7	1.2	0.100	0.100	7	66	<1	<3

DATE	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (µ G/L AS MO) (01060)	NICKEL, DIS- SOLVED (µ G/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (µ G/L AS SE) (01145)	SILVER, DIS- SOLVED (µ G/L AS AG) (01075)	URANIUM NATURAL DIS- SOLVED (µ G/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. %FINER THAN .062MM (70331)
MAR 13...	10	--	--	--	--	--	3.0	39	118	77
MAY 26...	8	--	--	--	--	--	4.5	68	404	68
JUN 09...	19	--	--	--	--	--	10	560	20100	72
JUL 19...	6	6	12	2	<1.0	22	5.0	158	939	94

PLATTE RIVER BASIN
06768000 PLATTE RIVER NEAR OVERTON, NE
WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952, 1958 to September 1994.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1958 to current year.

WATER TEMPERATURES: January 1958 to current year.

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.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,010 microsiemens Jan. 5 (north channel);
minimum daily, 595 microsiemens Oct. 8 (south chan.nel).

WATER TEMPERATURES: Maximum daily, 31.0 °C July 29 (south channel);
minimum daily, 2.0 °C on many days during winter period.

PLATTE RIVER BASIN

77

SPECIFIC CONDUCTANCE, $\mu\text{S}/\text{CM}$ @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
ONCE-DAILY

06767998 PLATTE RIVER NEAR OVERTON, NE (NORTH CHANNEL)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	951	942	898	902	850	841	829	799	899	879	868	916
2	919	899	898	988	776	738	835	833	937	877	866	903
3	940	810	892	944	800	809	843	825	991	890	864	903
4	986	808	883	932	843	751	838	812	984	898	870	903
5	926	880	897	1010	887	835	850	876	993	894	908	913
6	881	874	890	955	885	840	841	866	1010	862	908	864
7	925	890	936	891	853	924	839	841	990	860	903	884
8	959	858	921	911	835	892	884	871	907	867	829	891
9	965	884	933	889	871	754	843	921	896	872	841	879
10	959	883	933	892	873	788	823	935	949	870	857	870
11	962	886	945	855	877	761	812	931	992	869	848	876
12	947	876	896	807	798	806	813	925	988	896	883	880
13	959	860	923	840	988	822	824	925	990	905	890	880
14	914	857	920	825	900	825	810	912	967	909	872	862
15	900	880	897	800	860	784	816	924	969	912	897	888
16	904	895	875	851	844	822	803	912	989	888	904	879
17	890	887	886	831	864	775	793	931	989	874	913	869
18	894	896	865	855	847	830	792	973	977	873	853	870
19	798	889	880	888	825	795	761	972	989	889	896	855
20	812	817	869	887	817	756	802	960	989	889	896	846
21	804	840	859	864	839	816	802	961	986	882	891	817
22	798	879	871	826	842	841	791	946	953	873	871	834
23	945	876	859	881	846	756	794	917	910	873	866	823
24	952	863	866	884	847	807	812	937	889	870	887	839
25	952	849	865	897	845	820	826	998	852	879	928	853
26	957	884	867	877	779	782	835	940	852	890	909	856
27	954	803	872	836	817	817	839	846	847	887	909	855
28	897	862	873	821	827	832	834	789	857	899	919	868
29	952	894	867	819	---	837	845	757	860	902	900	901
30	952	899	871	842	---	793	813	773	862	907	892	904
31	963	---	1000	865	---	828	---	845	---	908	910	---
TOTAL	28517	26120	27707	27165	23735	25077	24642	27653	28263	27443	27448	26181
MEAN	920	871	894	876	848	809	821	892	942	885	885	873
MAX	986	942	1000	1010	988	924	884	998	1010	912	928	916
MIN	798	803	859	800	776	738	761	757	847	860	829	817

06767999 PLATTE RIVER NEAR OVERTON, NE (SOUTH CHANNEL)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	844	935	833	890	907	905	930	919	911	912	881	915
2	812	987	865	867	914	913	878	891	933	913	875	915
3	815	834	863	882	914	913	912	857	923	920	876	915
4	868	888	852	885	891	866	893	877	905	925	877	918
5	891	850	857	903	841	922	915	886	922	921	841	918
6	921	852	840	876	786	876	881	898	918	891	842	914
7	892	833	820	876	896	928	878	878	950	897	871	916
8	595	814	826	892	911	893	892	885	931	890	924	906
9	886	814	833	892	905	908	897	891	847	892	916	906
10	844	861	843	897	885	885	891	892	945	890	907	903
11	848	844	871	895	884	912	889	897	981	887	877	911
12	804	824	882	870	876	887	---	899	977	912	846	909
13	830	811	880	906	879	898	878	898	980	899	920	909
14	805	835	873	881	900	902	888	893	965	909	904	913
15	824	820	857	884	878	899	892	893	965	903	930	909
16	822	849	837	908	877	892	885	908	979	894	921	910
17	798	864	872	914	878	888	865	907	994	870	918	915
18	800	863	876	902	874	918	886	911	976	877	883	905
19	913	817	872	899	905	929	880	918	986	899	895	904
20	930	799	880	853	881	912	884	907	990	904	898	897
21	927	851	854	900	910	916	891	902	987	880	906	889
22	938	849	896	883	885	917	892	900	965	877	914	892
23	830	833	854	914	878	902	872	899	925	887	914	891
24	811	808	902	919	882	922	885	908	922	883	918	893
25	912	821	857	911	908	892	882	906	897	893	873	888
26	933	837	864	892	913	868	878	880	896	893	928	884
27	943	823	898	882	901	915	877	792	896	905	936	887
28	952	837	907	881	900	938	862	843	903	899	924	887
29	941	837	876	896	---	898	877	889	895	907	914	885
30	941	841	904	894	---	931	859	888	896	906	920	867
31	940	---	872	898	---	922	---	902	---	910	925	---
TOTAL	26810	25331	26816	27642	24859	28067	---	27614	28160	27845	27874	27071
MEAN	865	844	865	892	888	905	---	891	939	898	899	902
MAX	952	987	907	919	914	938	---	919	994	925	936	918
MIN	595	799	820	853	786	866	---	792	847	870	841	867

PLATTE RIVER BASIN

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
ONCE-DAILY

06767998 PLATTE RIVER NEAR OVERTON, NE (NORTH CHANNEL)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	8.0	7.0	2.0	5.0	2.0	7.0	11.0	22.0	20.0	18.0	29.0
2	19.0	10.0	3.0	2.0	5.0	2.0	18.0	11.0	19.0	20.0	25.0	29.0
3	15.0	7.0	5.0	2.0	5.0	2.0	7.0	9.0	20.0	22.0	26.0	29.0
4	17.0	6.0	6.0	2.0	9.0	2.0	12.0	14.0	21.0	22.0	27.0	28.0
5	18.0	6.0	2.0	2.0	8.0	2.0	7.0	14.0	21.0	19.0	27.0	22.0
6	20.0	6.0	2.0	2.0	7.0	2.0	18.0	14.0	20.0	26.0	29.0	29.0
7	14.0	7.0	2.0	2.0	2.0	2.0	20.0	13.0	24.0	28.0	23.0	25.0
8	16.0	9.0	2.0	2.0	2.0	2.0	13.0	18.0	18.0	28.0	30.0	24.0
9	16.0	9.0	2.0	2.0	2.0	8.0	9.0	15.0	18.0	28.0	28.0	23.0
10	8.0	5.0	2.0	2.0	2.0	10.0	4.0	10.0	18.0	26.0	23.0	19.0
11	10.0	9.0	2.0	2.0	2.0	12.0	3.0	10.0	21.0	23.0	29.0	17.0
12	16.0	9.0	2.0	3.0	2.0	17.0	9.0	15.0	17.0	27.0	28.0	18.0
13	11.0	12.0	2.0	2.0	2.0	9.0	16.0	17.0	18.0	24.0	23.0	18.0
14	16.0	6.0	2.0	4.0	2.0	9.0	10.0	21.0	26.0	28.0	23.0	18.0
15	13.0	3.0	2.0	6.0	3.0	16.0	16.0	18.0	23.0	28.0	23.0	19.0
16	15.0	2.0	3.0	4.0	6.0	17.0	10.0	20.0	26.0	28.0	23.0	19.0
17	15.0	5.0	3.0	2.0	8.0	16.0	7.0	14.0	26.0	23.0	23.0	21.0
18	14.0	6.0	3.0	2.0	9.0	11.0	6.0	12.0	22.0	24.0	30.0	20.0
19	17.0	2.0	6.0	2.0	5.0	13.0	6.0	15.0	22.0	26.0	21.0	18.0
20	17.0	3.0	3.0	6.0	12.0	8.0	10.0	16.0	22.0	22.0	20.0	15.0
21	16.0	3.0	4.0	2.0	8.0	8.0	10.0	16.0	25.0	27.0	22.0	14.0
22	15.0	3.0	2.0	2.0	14.0	11.0	12.0	17.0	25.0	27.0	29.0	17.0
23	13.0	5.0	5.0	2.0	12.0	17.0	14.0	14.0	23.0	28.0	23.0	15.0
24	11.0	7.0	2.0	2.0	12.0	11.0	9.0	10.0	23.0	24.0	28.0	17.0
25	12.0	5.0	8.0	2.0	9.0	14.0	10.0	17.0	23.0	23.0	30.0	18.0
26	14.0	6.0	8.0	4.0	8.0	6.0	11.0	15.0	23.0	28.0	25.0	14.0
27	14.0	2.0	4.0	4.0	4.0	3.0	14.0	15.0	24.0	29.0	25.0	16.0
28	10.0	2.0	3.0	3.0	2.0	4.0	15.0	16.0	23.0	29.0	23.0	18.0
29	10.0	2.0	3.0	5.0	---	5.0	14.0	19.0	20.0	29.0	30.0	20.0
30	8.0	2.0	3.0	2.0	---	8.0	10.0	18.0	19.0	29.0	29.0	18.0
31	8.0	---	2.0	3.0	---	4.0	---	19.0	---	23.0	28.0	---
TOTAL	432.0	167.0	105.0	84.0	167.0	253.0	327.0	463.0	652.0	788.0	791.0	607.0
MEAN	13.9	5.6	3.4	2.7	6.0	8.2	10.9	14.9	21.7	25.4	25.5	20.2
MAX	20.0	12.0	8.0	6.0	14.0	17.0	20.0	21.0	26.0	29.0	30.0	29.0
MIN	8.0	2.0	2.0	2.0	2.0	2.0	3.0	9.0	17.0	19.0	18.0	14.0

06767999 PLATTE RIVER NEAR OVERTON, NE (SOUTH CHANNEL)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	7.0	6.0	2.0	3.0	2.0	8.0	11.0	20.0	20.0	19.0	28.0
2	17.0	11.0	3.0	2.0	4.0	2.0	14.0	11.0	17.0	20.0	25.0	29.0
3	15.0	8.0	4.0	2.0	4.0	2.0	7.0	9.0	18.0	22.0	21.0	28.0
4	17.0	8.0	6.0	2.0	7.0	2.0	11.0	13.0	20.0	21.0	24.0	27.0
5	18.0	7.0	2.0	2.0	6.0	2.0	7.0	13.0	20.0	19.0	25.0	22.0
6	19.0	7.0	2.0	2.0	6.0	2.0	15.0	13.0	17.0	24.0	27.0	28.0
7	15.0	7.0	2.0	2.0	2.0	2.0	16.0	12.0	22.0	26.0	22.0	25.0
8	17.0	8.0	2.0	2.0	2.0	2.0	11.0	16.0	19.0	27.0	29.0	24.0
9	17.0	8.0	2.0	2.0	2.0	6.0	8.0	13.0	18.0	27.0	27.0	23.0
10	9.0	6.0	2.0	2.0	2.0	8.0	5.0	10.0	18.0	26.0	23.0	21.0
11	11.0	9.0	2.0	2.0	2.0	9.0	4.0	10.0	19.0	23.0	28.0	18.0
12	15.0	9.0	2.0	3.0	2.0	12.0	9.0	13.0	17.0	28.0	28.0	19.0
13	10.0	10.0	2.0	2.0	2.0	5.0	12.0	14.0	18.0	24.0	23.0	19.0
14	15.0	6.0	2.0	3.0	2.0	6.0	12.0	18.0	24.0	28.0	23.0	18.0
15	13.0	5.0	3.0	5.0	3.0	11.0	13.0	17.0	22.0	27.0	23.0	19.0
16	15.0	4.0	3.0	4.0	5.0	13.0	10.0	19.0	24.0	26.0	22.0	19.0
17	15.0	5.0	3.0	2.0	6.0	12.0	7.0	12.0	24.0	23.0	22.0	22.0
18	15.0	6.0	3.0	2.0	6.0	8.0	6.0	13.0	22.0	24.0	28.0	21.0
19	15.0	4.0	6.0	2.0	3.0	10.0	6.0	13.0	22.0	26.0	22.0	18.0
20	15.0	3.0	3.0	5.0	9.0	7.0	9.0	15.0	22.0	20.0	21.0	16.0
21	15.0	3.0	3.0	2.0	6.0	7.0	11.0	16.0	24.0	29.0	22.0	14.0
22	15.0	3.0	3.0	2.0	10.0	9.0	12.0	16.0	24.0	27.0	29.0	17.0
23	14.0	7.0	4.0	2.0	8.0	14.0	15.0	14.0	22.0	27.0	23.0	17.0
24	12.0	5.0	3.0	2.0	8.0	10.0	8.0	12.0	22.0	23.0	28.0	18.0
25	12.0	5.0	6.0	2.0	6.0	13.0	8.0	16.0	22.0	23.0	30.0	17.0
26	15.0	6.0	6.0	5.0	6.0	6.0	9.0	15.0	22.0	27.0	25.0	14.0
27	14.0	2.0	2.0	5.0	4.0	3.0	14.0	15.0	23.0	28.0	25.0	15.0
28	10.0	2.0	3.0	3.0	2.0	4.0	13.0	15.0	23.0	28.0	23.0	16.0
29	10.0	2.0	3.0	4.0	---	5.0	13.0	18.0	20.0	31.0	30.0	18.0
30	10.0	2.0	3.0	2.0	---	10.0	10.0	16.0	19.0	28.0	28.0	16.0
31	6.0	---	2.0	2.0	---	5.0	---	17.0	---	23.0	26.0	---
TOTAL	430.0	175.0	98.0	81.0	128.0	209.0	303.0	435.0	624.0	775.0	771.0	606.0
MEAN	13.9	5.8	3.2	2.6	4.6	6.7	10.1	14.0	20.8	25.0	24.9	20.2
MAX	19.0	11.0	6.0	5.0	10.0	14.0	16.0	19.0	24.0	31.0	30.0	29.0
MIN	6.0	2.0	2.0	2.0	2.0	2.0	4.0	9.0	17.0	19.0	19.0	14.0

PLATTE RIVER BASIN

79

06770200 PLATTE RIVER NEAR KEARNEY, NE

LOCATION.--Lat 40°39'32", long 99°05'08", in SE1/4 SE1/4 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 mi², of which about 52,540 mi² contributes directly to surface runoff.

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

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

GAGE.--Water stage recorder. Datum of gage is 2134.11 ft above sea level.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	519	1030	e1180	1350	e1000	1240	1610	5130	12400	2870	307
2	1160	484	1050	e1100	1300	e1000	1340	1590	4430	11700	2430	314
3	1180	545	1150	e960	1290	e1050	1220	2150	4440	11300	2160	332
4	1170	831	1240	e740	1270	e1070	1090	2480	4770	11000	2130	405
5	899	927	1190	e900	1310	1100	1120	2460	5710	9970	1920	424
6	856	1020	1180	e1000	1280	1140	1050	2220	6650	9400	1860	737
7	656	978	1080	e1150	1180	e1180	1020	1960	7450	9350	1680	1040
8	444	909	e1000	e1300	1250	e1200	991	2240	8400	9560	1740	811
9	465	928	e860	e1400	1370	e1300	870	2290	10100	9030	1760	821
10	566	1010	e700	e1550	1400	e1500	943	2010	16100	8050	1540	860
11	594	1050	e880	e1700	1140	1420	1010	1490	18700	7370	1370	865
12	1010	888	e920	e1800	1050	1320	1300	1590	16800	6050	1140	1420
13	1280	967	e960	e1800	e960	1260	1340	1760	14600	5050	952	1590
14	1330	898	e980	e1700	e940	1240	1320	1730	13200	4260	807	1460
15	1310	1010	e1200	e1600	e960	1210	1170	1620	12400	3730	721	1390
16	1010	1020	e1200	2120	e960	1130	1160	1220	13900	3520	783	1490
17	994	1040	e1240	1660	e980	1060	1170	1070	14100	3580	713	1460
18	1060	1010	e1280	1570	e980	1050	1420	999	13200	4010	607	1490
19	1370	989	e1300	1530	e1000	1040	1410	1090	13800	4760	554	1510
20	1580	1120	1460	1380	e1100	1040	1560	1060	14900	5050	712	1910
21	1240	1190	1310	1330	e1250	1030	1630	1070	13200	4430	763	2140
22	862	1070	1350	1340	e1300	1080	1620	1160	11300	4340	921	2310
23	857	1030	1490	1300	1230	1020	1600	1500	11000	4510	929	2410
24	973	1020	1510	1250	1200	993	1610	1550	11200	4600	785	2410
25	808	1080	1470	1250	e1150	1060	1550	1400	11900	4420	662	2440
26	610	1080	1480	1330	e1150	1630	1470	1410	12900	4030	543	2410
27	570	1120	1450	1370	e1050	1600	1340	3120	14100	3780	485	2370
28	567	1030	1380	1410	e1000	1400	1270	5560	15200	3830	500	2380
29	589	1010	1300	1350	---	1460	1360	5720	14500	3010	449	2450
30	536	987	1260	1360	---	1650	1430	5250	13300	2510	359	2230
31	532	---	e1200	1400	---	1340	---	5490	---	2510	308	---
TOTAL	28178	28760	37100	42830	32400	37573	38624	67869	347380	191110	35153	44186
MEAN	909	959	1197	1382	1157	1212	1287	2189	11580	6165	1134	1473
MAX	1580	1190	1510	2120	1400	1650	1630	5720	18700	12400	2870	2450
MIN	444	484	700	740	940	993	870	999	4430	2510	308	307
AC-FT	55890	57050	73590	84950	64270	74530	76610	134600	689000	379100	69730	87640

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1576	1591	1825	2079	2500	2760	2524	2812	3954	2197	1213	1894	1894
MAX	3859	4717	4404	4487	6612	7148	9535	11770	17660	10910	6393	7903	7903
(WY)	1987	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983	1983
MIN	464	792	734	864	1157	1132	724	289	315	123	288	230	230
(WY)	1992	1990	1990	1991	1995	1991	1989	1989	1992	1990	1991	1990	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	403341	931163	
ANNUAL MEAN	1105	2551	2239
MEDIAN OF ANNUAL MEANS			1560
HIGHEST ANNUAL MEAN			5418
LOWEST ANNUAL MEAN			797
HIGHEST DAILY MEAN	3210	18700	22300
LOWEST DAILY MEAN	311	307	3.0
ANNUAL SEVEN-DAY MINIMUM	367	350	13
INSTANTANEOUS PEAK FLOW		19200	23700
INSTANTANEOUS PEAK STAGE		7.43	8.62
ANNUAL RUNOFF (AC-FT)	800000	1847000	1622000
10 PERCENT EXCEEDS	1900	6290	4690
50 PERCENT EXCEEDS	1010	1300	1500
90 PERCENT EXCEEDS	467	784	380

PLATTE RIVER BASIN

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE
(National Water-Quality Assessment, NAWQA, station)

LOCATION.--Lat 40°52'28", long 98°16'54", in SW1/4 SW1/4 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 mi², of which about 52,940 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WSP 956: 1935. WSP 1390: 1942. WDR-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,831.90 ft above sea level (Nebraska Department of Highways bench mark). Prior to Oct. 23, 1933, nonrecording gage at bridge 68 ft downstream and Oct. 23, 1933, to Aug. 19, 1980, water-stage recorder at site 98 ft downstream, all at same datum.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	911	401	1030	e1250	e2200	e1040	1350	1730	5510	13800	3690	738
2	1040	389	1020	e1080	e2000	e1040	1330	1690	5260	13000	3820	602
3	1150	353	1060	e840	1610	e1040	1330	1700	5050	12500	3340	622
4	1100	364	1070	e800	1510	e1040	1300	2170	5290	12500	2960	604
5	1130	568	1080	e940	1510	e1000	1290	2480	5790	12200	3010	613
6	987	743	971	e1000	1490	e800	1270	2490	6380	10900	3090	686
7	679	842	e820	e1100	1450	e920	1260	2490	7080	9990	2560	642
8	718	855	e700	e1240	1430	e1100	1220	2600	7490	9800	2210	1010
9	541	884	e1000	e1400	1390	e1250	1230	2580	8410	9940	2240	1030
10	456	904	e940	e1600	1340	e1500	1220	2620	9470	9510	2340	932
11	440	985	e920	e1750	1280	e1700	1230	2390	12900	8490	1910	1020
12	477	1060	e900	e1800	e1200	e1750	1200	1840	15800	7650	1520	1100
13	635	1010	e900	e1800	e1020	1510	1360	1840	15400	6190	1200	1240
14	1030	932	e900	e1800	e1060	1400	1400	1750	14200	5100	1130	1550
15	1200	927	e900	e1800	e1100	1370	1310	1750	13300	4340	1310	1370
16	1250	980	e920	e1800	e1080	1380	1300	1690	13000	3750	1030	1310
17	1090	1070	e1040	e1800	e1080	1350	1270	1440	14100	3470	978	1420
18	954	963	e1200	e1700	e1100	1360	1410	1230	14900	3530	938	1520
19	960	919	e1350	e1750	e1180	1300	1570	1170	14800	4030	849	1560
20	1040	1070	e1450	e1750	e1300	1280	1750	1230	14300	4820	832	1610
21	1340	1220	e1350	e1650	e1400	1290	1830	1190	14900	4870	990	1890
22	1200	1180	e1400	e1600	1450	1270	1730	1230	13800	4450	1060	2150
23	973	1020	e1500	e1500	1400	1230	1650	1540	12600	4560	1080	2350
24	858	937	e1550	e1500	1230	1260	1650	1850	11900	4810	1140	2480
25	780	931	e1800	e1550	1290	1260	1690	1900	12000	5160	1030	2530
26	955	1030	1820	e1650	e1250	1410	1610	1920	12400	4880	919	2460
27	626	1210	1540	e1700	e1080	1750	1560	2790	13100	4470	853	2420
28	527	1150	1460	e1750	e1060	1680	1520	4770	14200	4190	788	2460
29	446	1060	1430	e1700	---	1460	1430	6390	15200	4250	693	2580
30	439	1010	1380	e1700	---	1510	1460	6040	15000	3540	712	2580
31	427	---	1370	e1900	---	1590	---	5500	---	3260	792	---
TOTAL	26359	26967	36771	47200	37490	40840	42730	74000	343530	213950	51014	45079
MEAN	850	899	1186	1523	1339	1317	1424	2387	11450	6902	1646	1503
MAX	1340	1220	1820	1900	2200	1750	1830	6390	15800	13800	3820	2580
MIN	427	353	700	800	1020	800	1200	1170	5050	3260	693	602
AC-FT	52280	53490	72940	93620	74360	81010	84750	146800	681400	424400	101200	89410

e Estimated

PLATTE RIVER BASIN

81

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE --Continued
(National Water-Quality Assessment, NAWQA, station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

MEAN	1190	1287	1347	1445	1999	2408	2033	2262	2480	1171	495	881
MAX	6970	5250	4607	4955	7065	7051	9906	12190	16990	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1942 - 1995

ANNUAL TOTAL	430132			985930			1579	
ANNUAL MEAN	1178			2701			1190	
MEDIAN OF ANNUAL MEANS							5380	1983
HIGHEST ANNUAL MEAN							414	1956
LOWEST ANNUAL MEAN							23500	Jun 30 1983
HIGHEST DAILY MEAN	5600	Mar 5		15800	Jun 12			
LOWEST DAILY MEAN	229	Sep 1		353	Nov 3		*.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	251	Aug 27		403	Oct 29		.00	Oct 1 1941
INSTANTANEOUS PEAK FLOW				16200	Jun 12		30000	Jun 6 1935
INSTANTANEOUS PEAK STAGE				5.42	Jun 12		**6.16	Mar 27 1960
ANNUAL RUNOFF (AC-FT)	853200			1956000			1144000	
10 PERCENT EXCEEDS	1960			6670			3120	
50 PERCENT EXCEEDS	1010			1390			1100	
90 PERCENT EXCEEDS	510			841			120	

* No flow at times in many years.

** Backwater from ice.

PLATTE RIVER BASIN

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-89, 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to September 1980.

WATER TEMPERATURES: July 1972 to September 1980.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,250 microsiemens Feb. 3, 1980; minimum daily, 575 microsiemens May 24, 1977.

WATER TEMPERATURES: Maximum, 34.5° C July 23, 1972; minimum, 0.0° C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (µ S/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	BARO-METRIC PRES-TEMPER-ATURE WATER (°C) (00010)	HARD-NESS SURE (MM OF HG) (00025)	HARD-NESS NONCARB OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM TOTAL (MG/L AS CaCO ₃) (00900)	MAGNE-SIUM, DISSOLV FLD. AS CaCO ₃ (MG/L) (00904)	DIS-SOLVED (MG/L AS Ca) (00915)	DIS-SOLVED (MG/L AS Mg) (00925)	
MAR	14...	1300	1360	916	8.5	11.0	722	10.3	300	100	81	23
MAY	30...	1830	5570	677	8.2	18.5	719	7.4	230	56	64	17
	31...	0930	5500	833	8.2	17.0	718	8.2	240	58	66	18
JUN	13...	0900	15600	970	8.3	19.5	714	6.8	320	130	87	25
JUL	27...	1500	4390	892	8.8	30.5	705	11.3	280	110	74	23
DATE		SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (AS K) (00931)	POTAS-SIUM, DIS-SOLVED (MG/L CaCO ₃) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L CO ₃) (39086)	CAR-BONATE WATER DIS IT FIELD (AS HCO ₃) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS) (00453)	SULFATE DIS-SOLVED (AS MG/L SO ₄) (00945)	CHLO-RIDE, DIS-SOLVED (AS MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L (MG/LAS SiO ₂) (00955)	
MAR	14...	80	2	13	195	4	231	220	34	0.50	28	
MAY	30...	57	2	17	174	0	212	170	24	0.50	22	
	31...	60	2	17	180	0	220	180	24	0.50	23	
JUN	13...	75	2	16	190	0	232	250	36	0.70	26	
JUL	27...	81	2	11	170	24	159	220	31	0.60	21	
DATE		SOLIDS, RESIDUE AT 180 °C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CON-STI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO ₂ +NO ₃ DIS-SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	
MAR	14...	627	607	0.85	2300	2.08	0.020	2.10	0.030	0.67	0.27	
MAY	30...	518	485	0.70	7790	1.66	0.040	1.70	0.190	1.2	0.61	
	31...	551	505	0.75	8180	1.57	0.030	1.60	0.110	0.89	0.59	
JUN	13...	681	630	0.93	28700	--	<0.010	<0.050	<0.015	0.80	--	
JUL	27...	578	564	0.79	6850	--	<0.010	<0.050	0.020	1.4	0.28	

PLATTE RIVER BASIN

83

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (µ G/L AS AL) (01106)	BARIUM, DIS- SOLVED (µ G/L AS BA) (01005)	COBALT, DIS- SOLVED (µ G/L AS CO) (01035)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)
MAR 14...	0.70	0.30	2.8	2.4	0.080	0.070	--	--	--	<3
MAY 30...	1.4	0.80	3.1	2.5	0.350	0.360	--	--	--	26
MAY 31...	1.0	0.70	2.6	2.3	0.310	0.320	--	--	--	10
JUN 13...	0.80	<0.20	0.80	--	0.100	0.100	--	--	--	22
JUL 27...	1.4	0.30	1.4	--	0.020	0.020	10	69	<1	4

DATE	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (µ G/L AS MO) (01060)	NICKEL, DIS- SOLVED (µ G/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (µ G/L AS SE) (01145)	SILVER, DIS- SOLVED (µ G/L AS AG) (01075)	URANIUM NATURAL DIS- SOLVED (µ G/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. %FINER THAN .062MM (70331)
MAR 14...	3	--	--	--	--	--	3.3	74	272	75
MAY 30...	2	--	--	--	--	--	7.5	356	5350	44
MAY 31...	3	--	--	--	--	--	6.6	334	4960	31
JUN 13...	6	--	--	--	--	--	11	802	33800	--
JUL 27...	2	6	5	2	<1.0	18	4.7	62	735	17

PLATTE RIVER BASIN

06771500 WOOD RIVER NEAR GIBBON, NE

LOCATION.-- Lat. 40° 46' 17", long. 98° 47' 51" in NW1/4 sec. 9, T.9 N., R.13 W., Buffalo County, Hydrologic Unit 10200102, on the right bank 10 ft downstream from bridge on county road. From Gibbon 2.5 mi east on U.S. Highway 30 and 0.6 mi north on the county road.

DRAINAGE AREA.--526 mi².

PERIOD OF RECORD.--April 1, 1949 to September 30, 1976. June, 1991 to September 1995 (discontinued) (irrigation season only, 1991-95.

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

GAGE.--Water-stage recorder. Datum of gage is 2,024.88 ft above sea level.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,050 ft³/s June 15, 1967, gage height, 16.79 ft; no flow for many days in 1952-1962, 1964-1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, May to September, 610 ft³/s May 28, gage height, 12.83 ft; minimum daily during period May to September, 1.2 ft³/s Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12	66	15	30	15
2	---	---	---	---	---	---	---	12	50	13	123	14
3	---	---	---	---	---	---	---	14	36	14	84	15
4	---	---	---	---	---	---	---	15	30	17	29	11
5	---	---	---	---	---	---	---	16	40	15	19	10
6	---	---	---	---	---	---	---	16	44	183	18	12
7	---	---	---	---	---	---	---	16	47	116	216	10
8	---	---	---	---	---	---	---	17	39	37	230	8.9
9	---	---	---	---	---	---	---	18	47	24	59	8.6
10	---	---	---	---	---	---	---	25	39	19	34	11
11	---	---	---	---	---	---	---	20	90	16	24	9.7
12	---	---	---	---	---	---	---	18	87	15	31	6.9
13	---	---	---	---	---	---	---	15	52	16	23	7.1
14	---	---	---	---	---	---	---	16	36	17	24	6.2
15	---	---	---	---	---	---	---	15	35	20	20	5.6
16	---	---	---	---	---	---	---	15	25	19	18	5.0
17	---	---	---	---	---	---	---	14	20	19	19	4.5
18	---	---	---	---	---	---	---	15	17	18	19	3.8
19	---	---	---	---	---	---	---	12	15	22	18	3.2
20	---	---	---	---	---	---	---	11	14	26	20	3.2
21	---	---	---	---	---	---	---	11	14	25	17	2.6
22	---	---	---	---	---	---	---	10	16	39	25	1.8
23	---	---	---	---	---	---	---	13	15	33	25	1.6
24	---	---	---	---	---	---	---	13	21	19	18	1.4
25	---	---	---	---	---	---	---	15	161	76	16	1.2
26	---	---	---	---	---	---	---	14	63	77	16	1.9
27	---	---	---	---	---	---	---	84	31	37	12	1.5
28	---	---	---	---	---	---	---	434	23	40	14	1.5
29	---	---	---	---	---	---	---	449	18	26	16	1.6
30	---	---	---	---	---	---	---	367	16	25	18	1.8
31	---	---	---	---	---	---	---	99	---	28	19	---
TOTAL	---	---	---	---	---	---	---	1821	1207	1066	1254	187.6
MEAN	---	---	---	---	---	---	---	58.7	40.2	34.4	40.5	6.25
MAX	---	---	---	---	---	---	---	449	161	183	230	15
MIN	---	---	---	---	---	---	---	10	14	13	12	1.2
AC-FT	---	---	---	---	---	---	---	3610	2390	2110	2490	372

PLATTE RIVER BASIN

85

06773050 PRAIRIE CREEK NEAR OVINA, NE

LOCATION.--Lat 40°59'03", long 98°24'59", in NW1/4 SE1/4 NW1/4, sec .26, T.12 N., R.10 W., Hall County, Hydrologic Unit 10200103, on downstream side of right pier of Hall County bridge number 18V7 on Engelman Road, 1.75 mi north of the Highway 2, Airport Road, and Engelman Road intersection.

DRAINAGE AREA.--132 mi².

PERIOD OF RECORD.--June 1991 to September 1995 (discontinued) (partial years only, 1991-93, 1995).

GAGE.--Water-stage recorder. Datum of gage is 1,873 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated period which are poor. Natural flow affected by beaver activity, small pump diversions and runoff from irrigation above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1290 ft³/s Mar. 9, 1993, gage height, 10.55 ft, maximum observed, discharge measurement; maximum gage height, 10.77 ft, June 2, 1991; no flow for many days in Sept., 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April 28 to September 30, 568 ft³/s May 29, gage height 9.02 ft; minimum daily discharge, 0.19 ft³/s Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	4.5	25	9.5	37	3.5
2	---	---	---	---	---	---	---	4.2	18	9.6	17	4.7
3	---	---	---	---	---	---	---	5.1	18	10	8.8	5.8
4	---	---	---	---	---	---	---	8.0	39	11	5.1	6.4
5	---	---	---	---	---	---	---	6.1	166	10	20	3.9
6	---	---	---	---	---	---	---	5.4	263	9.7	199	2.4
7	---	---	---	---	---	---	---	7.9	58	9.3	66	1.8
8	---	---	---	---	---	---	---	16	37	9.1	17	1.5
9	---	---	---	---	---	---	---	12	30	9.0	7.9	1.4
10	---	---	---	---	---	---	---	10	26	9.9	5.4	1.4
11	---	---	---	---	---	---	---	8.5	20	10	4.8	1.2
12	---	---	---	---	---	---	---	8.5	16	12	5.5	1.1
13	---	---	---	---	---	---	---	12	14	12	6.2	1.0
14	---	---	---	---	---	---	---	9.8	13	11	5.7	.92
15	---	---	---	---	---	---	---	7.7	13	10	7.9	.86
16	---	---	---	---	---	---	---	7.3	12	11	7.5	.78
17	---	---	---	---	---	---	---	7.0	12	11	5.5	.73
18	---	---	---	---	---	---	---	6.4	11	11	7.1	.65
19	---	---	---	---	---	---	---	5.7	11	13	6.4	.48
20	---	---	---	---	---	---	---	5.5	11	14	5.6	.37
21	---	---	---	---	---	---	---	5.4	10	10	4.3	.39
22	---	---	---	---	---	---	---	5.9	9.7	9.6	3.6	.36
23	---	---	---	---	---	---	---	19	9.6	12	3.1	.31
24	---	---	---	---	---	---	---	22	9.6	8.8	3.6	.27
25	---	---	---	---	---	---	---	15	9.4	11	5.4	.26
26	---	---	---	---	---	---	---	10	9.5	11	4.9	.25
27	---	---	---	---	---	---	---	94	9.5	9.2	4.3	.22
28	---	---	---	---	---	---	2.5	466	9.7	6.8	3.5	.19
29	---	---	---	---	---	---	2.6	451	9.6	5.2	3.6	.30
30	---	---	---	---	---	---	3.0	74	9.2	11	3.6	.31
31	---	---	---	---	---	---	---	32	---	21	2.9	---
TOTAL	---	---	---	---	---	---	---	1351.9	908.8	327.7	488.2	43.75
MEAN	---	---	---	---	---	---	---	43.6	30.3	10.6	15.7	1.46
MAX	---	---	---	---	---	---	---	466	263	21	199	6.4
MIN	---	---	---	---	---	---	---	4.2	9.2	5.2	2.9	.19
AC-FT	---	---	---	---	---	---	---	2680	1800	650	968	87

PLATTE RIVER BASIN

06773150 SILVER CREEK AT OVINA, NE

LOCATION.--Lat. 40° 57' 34", Long 98° 27' 18", in NW1/4 NW1/4 NW1/4, sec.4, T.11 N., R.10 W., Hydrologic Unit 10200103, on right bank 150 ft downstream from Hall County Bridge Number 22T9 on private property, 2 mi west of intersection of Airport and Engleman Road, then 1/8 mi south of Airport Road, Hall County.

DRAINAGE AREA.--67.6 mi².

PERIOD OF RECORD.--May, 1991 to September 1995 (discontinued) (irrigation season only, 1991-95).

GAGE.--Water-stage recorder. Datum of gage is 1,881 ft above sea level, from topographic map.

REMARKS.--Record poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 620 ft³/s June 2, 1991, gage height, 6.57 ft; no flow for many days 1991-92.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 248 ft³/s May 28, gage height, 5.32 ft; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	6.9	19	4.0	9.8	.00
2	---	---	---	---	---	---	---	11	16	3.8	10	.00
3	---	---	---	---	---	---	---	10	15	4.4	5.1	.00
4	---	---	---	---	---	---	---	18	23	4.6	2.1	.00
5	---	---	---	---	---	---	---	15	40	4.7	8.0	.00
6	---	---	---	---	---	---	---	12	50	5.3	16	.00
7	---	---	---	---	---	---	---	12	28	4.4	12	.00
8	---	---	---	---	---	---	---	28	39	3.6	6.6	.00
9	---	---	---	---	---	---	---	18	42	3.2	3.8	.00
10	---	---	---	---	---	---	---	14	25	2.9	2.1	.00
11	---	---	---	---	---	---	---	13	16	2.9	.68	.00
12	---	---	---	---	---	---	---	11	13	.42	.09	.00
13	---	---	---	---	---	---	---	14	11	.07	.05	.00
14	---	---	---	---	---	---	---	12	11	.04	.02	.00
15	---	---	---	---	---	---	---	9.5	9.8	.02	.01	.00
16	---	---	---	---	---	---	---	7.9	8.8	.32	.01	.00
17	---	---	---	---	---	---	---	7.0	7.9	.06	.01	.00
18	---	---	---	---	---	---	---	6.6	7.0	.01	.07	.00
19	---	---	---	---	---	---	---	6.1	6.5	.00	.07	.00
20	---	---	---	---	---	---	---	5.2	6.1	.00	.07	.00
21	---	---	---	---	---	---	---	3.4	5.8	.01	.05	.00
22	---	---	---	---	---	---	---	3.8	5.2	.09	.01	.00
23	---	---	---	---	---	---	---	11	5.1	1.6	.00	.00
24	---	---	---	---	---	---	---	36	5.4	2.0	.00	.00
25	---	---	---	---	---	---	---	21	5.8	6.0	.00	.00
26	---	---	---	---	---	---	---	13	5.3	3.3	.00	.00
27	---	---	---	---	---	---	---	56	4.9	2.9	.00	.00
28	---	---	---	---	---	---	---	216	4.6	2.8	.00	.00
29	---	---	---	---	---	---	---	131	4.2	1.9	.00	.00
30	---	---	---	---	---	---	---	46	4.3	1.7	.00	.00
31	---	---	---	---	---	---	---	25	---	5.5	.00	---
TOTAL	---	---	---	---	---	---	---	799.4	444.7	72.54	76.64	0.00
MEAN	---	---	---	---	---	---	---	25.8	14.8	2.34	2.47	.000
MAX	---	---	---	---	---	---	---	216	50	6.0	16	.00
MIN	---	---	---	---	---	---	---	3.4	4.2	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	1590	882	144	152	.00

PLATTE RIVER BASIN

87

06774000 PLATTE RIVER NEAR DUNCAN, NE

LOCATION.--Lat 41°22'04", long 97°29'40", in SE1/4 SW1/4 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.

DRAINAGE AREA.--59,300 mi², of which about 54,630 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--June 1895 to December 1909 (irrigation seasons only 1895-1900), 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, 1903-5, 1929-32, 1935(M), 1936. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. 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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	900	633	1460	e1600	e2000	e1200	2030	1980	8540	13200	3400	477
2	988	619	1430	e1100	e2300	e1200	2030	2310	8130	12500	3400	612
3	1080	565	1430	e960	e2700	e1300	1750	2410	7190	11600	3500	429
4	1160	571	1420	e1000	e2500	e1400	1590	2630	6580	11300	3080	350
5	1220	588	1290	e1100	e2300	e1300	1560	3090	6870	11100	2740	314
6	1350	617	e1200	e1300	e2100	e1300	1480	3500	7170	11200	2990	299
7	1270	873	e1100	e1500	e2000	e1240	1430	3680	7640	10300	3040	299
8	1050	e1100	e1000	e1700	e1900	e1200	1340	4240	8510	9350	2630	303
9	897	e1040	e980	e1600	e2100	e1200	1290	4240	9150	9180	2150	418
10	831	e1000	e840	e1700	e2400	e1500	1270	4280	9870	9210	2110	703
11	630	e1100	e800	e1800	e2000	e2000	1310	4420	10700	8940	2210	705
12	534	e1120	e860	e1800	e1600	e2500	1270	4150	12300	8240	1800	909
13	519	e1140	e980	e1900	e1400	2170	1330	3690	15200	7560	1490	788
14	566	e1160	e1100	e1900	e1400	1750	1430	3300	16000	6540	1230	771
15	866	1160	e1300	e1900	e1500	1620	1540	3050	15200	5720	1160	1130
16	1290	1130	e1400	e1800	e1500	1580	1520	2850	14100	5120	1380	1140
17	1530	1110	e1500	e1900	e1900	1540	1570	2570	13300	4600	1080	1060
18	1620	1120	e1600	e2000	e2500	1530	1790	2280	13500	4230	843	1110
19	1420	1180	e1700	e2000	e2700	1480	2040	1920	13900	4070	773	1720
20	1350	1230	e1900	e2000	e2400	1400	2300	1800	13700	4540	685	1580
21	1310	1480	e1800	e1800	2120	1320	2590	1730	13400	5280	650	1610
22	1410	1560	e1700	e1700	1700	1250	2690	1650	13800	5390	661	1620
23	1590	1530	e1600	e1900	1580	1190	2530	2290	14100	5090	762	1790
24	1370	1400	e1600	e1900	1570	1230	2280	2550	13100	5090	666	1920
25	1100	1310	e1700	e2000	1560	1380	2130	2700	11700	5260	677	2160
26	1000	1320	e1800	e1900	1390	1600	2060	2730	11200	5270	642	2360
27	1050	1490	e1800	e2100	1370	1700	2030	3570	11100	4990	585	2420
28	946	1660	e1900	e2000	e1200	2010	2000	5780	11700	4470	538	2430
29	758	1670	e1900	e1900	---	2170	1900	8090	12300	4010	447	2450
30	671	1500	e1800	e1800	---	2040	1770	9190	13000	3910	333	2590
31	638	---	e1700	e1800	---	1920	---	8930	---	3550	314	---
TOTAL	32914	33976	44590	53360	53690	48220	53850	111600	342950	220810	47966	36467
MEAN	1062	1133	1438	1721	1917	1555	1795	3600	11430	7123	1547	1216
MAX	1620	1670	1900	2100	2700	2500	2690	9190	16000	13200	3500	2590
MIN	519	565	800	960	1200	1190	1270	1650	6580	3550	314	299
AC-FT	65280	67390	88440	105800	106500	95640	106800	221400	680200	438000	95140	72330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	MEAN	1256	1405	1403	1499	2244	2955	2461	2614	2865	1434	533	873
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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1942 - 1995

ANNUAL TOTAL	570761	1080393	
ANNUAL MEAN	1564	2960	1791
MEDIAN OF ANNUAL MEANS			1350
HIGHEST ANNUAL MEAN			6652
LOWEST ANNUAL MEAN			494
HIGHEST DAILY MEAN	10000	16000	23800
LOWEST DAILY MEAN	177	299	.00
ANNUAL SEVEN-DAY MINIMUM	202	345	.00
INSTANTANEOUS PEAK FLOW (STAGE)		16200	44100
INSTANTANEOUS PEAK STAGE		7.20	**7.86
ANNUAL RUNOFF (AC-FT)	1132000	2143000	1297000
10 PERCENT EXCEEDS	2700	8520	3770
50 PERCENT EXCEEDS	1350	1700	1200
90 PERCENT EXCEEDS	624	767	82

e Estimated.

* Site and datum then in use.

** Backwater from ice.

PLATTE RIVER BASIN

06775500 MIDDLE LOUP RIVER AT DUNNING, NE

LOCATION.--Lat 41°49'50", long 100°06'20", in NW1/4 SE1/4 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 mi², of which about 79 mi² 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 except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	511	432	465	499	420	553	544	705	e460	510	454
2	444	523	474	435	513	427	553	529	663	e450	489	472
3	449	516	485	421	508	418	553	550	648	e450	486	471
4	443	516	501	431	502	438	550	563	621	e460	499	465
5	442	519	445	418	488	426	561	561	634	e460	497	464
6	513	513	465	483	464	426	591	570	571	e460	482	474
7	466	535	478	462	469	389	584	594	597	e450	489	450
8	439	548	462	464	455	429	586	611	592	e450	481	449
9	438	526	394	442	453	414	562	611	567	e450	484	447
10	445	521	377	456	447	464	529	574	551	e440	485	444
11	447	531	405	509	406	511	504	569	546	e440	477	451
12	453	542	405	507	427	554	500	651	566	434	476	459
13	461	565	408	504	417	556	525	632	570	427	487	449
14	463	548	401	510	412	542	559	562	560	436	477	439
15	486	529	413	511	409	538	538	564	550	527	462	436
16	534	525	426	510	402	543	547	605	522	491	459	439
17	565	529	417	484	419	532	566	603	498	482	462	450
18	521	495	436	484	448	576	572	572	479	480	468	468
19	505	501	457	489	450	566	531	557	495	482	455	513
20	501	507	459	492	462	536	571	545	482	472	458	487
21	497	489	459	482	466	538	535	522	465	486	461	464
22	492	480	468	476	488	549	543	532	469	481	482	430
23	473	462	461	462	475	534	579	538	e520	472	462	441
24	465	470	470	463	461	533	615	511	e540	473	455	438
25	462	475	494	461	478	570	603	495	e520	472	450	435
26	468	492	504	473	497	565	594	550	e500	475	469	440
27	477	497	495	507	471	550	528	725	e480	470	455	445
28	500	464	490	477	439	504	540	730	e490	462	446	450
29	505	447	493	464	---	512	515	654	e480	462	461	464
30	506	436	489	473	---	516	515	724	e470	456	441	557
31	501	---	474	479	---	540	---	744	---	506	443	---
TOTAL	14803	15212	14037	14694	12825	15616	16602	18292	16351	14416	14608	13745
MEAN	478	507	453	474	458	504	553	590	545	465	471	458
MAX	565	565	504	511	513	576	615	744	705	527	510	557
MIN	438	436	377	418	402	389	500	495	465	427	441	430
AC-FT	29360	30170	27840	29150	25440	30970	32930	36280	32430	28590	28970	27260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	402	413	410	404	424	452	449	437	414	389	391	394
MAX	478	517	509	490	499	544	553	590	545	473	471	477
(WY)	1995	1992	1994	1967	1988	1993	1995	1995	1995	1962	1995	1987
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	168692	181201	
ANNUAL MEAN	462	496	415
HIGHEST ANNUAL MEAN			496
LOWEST ANNUAL MEAN			365
HIGHEST DAILY MEAN	566	744	778
LOWEST DAILY MEAN	290	377	100
ANNUAL SEVEN-DAY MINIMUM	324	400	231
INSTANTANEOUS PEAK FLOW (STAGE)		871	2160
INSTANTANEOUS PEAK STAGE		4.07	**7.02
ANNUAL RUNOFF (AC-FT)	334600	359400	300600
10 PERCENT EXCEEDS	520	568	490
50 PERCENT EXCEEDS	466	484	409
90 PERCENT EXCEEDS	410	436	350

e Estimated.

* Result of bridge collapsing and releasing ice jam 0.2 mi upstream.

** Backwater from ice.

PLATTE RIVER BASIN

89

06775900 DISMAL RIVER NEAR THEDFORD, NE
(National Water-Quality Assessment, NAWQA, station)
(Hydrologic bench-mark station and Radiochemical program)

LOCATION.--Lat 41°46'45", long 100°31'30", in SE1/4 NW1/4 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 mi², approximately, of which about 30 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

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 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	200	227	216	212	178	228	255	243	211	239	212
2	212	200	231	218	215	184	231	241	245	213	215	220
3	214	203	238	213	220	187	226	247	242	215	214	217
4	206	197	246	206	212	193	227	245	246	213	219	218
5	207	199	223	214	203	193	230	243	243	210	217	220
6	229	196	227	235	207	193	227	245	236	210	212	229
7	211	198	222	218	196	191	233	252	270	210	210	216
8	204	198	233	216	194	198	233	248	271	210	209	217
9	202	197	230	228	198	200	235	255	242	207	205	217
10	198	201	228	232	201	214	237	252	238	204	209	215
11	198	195	230	231	186	222	236	275	236	202	209	220
12	200	204	222	230	189	227	238	250	241	204	209	220
13	199	203	230	228	190	210	249	238	237	202	211	222
14	200	201	234	226	186	207	250	231	235	203	211	216
15	204	194	231	235	194	213	258	243	233	227	211	220
16	228	192	224	224	195	215	259	234	225	219	214	218
17	217	192	232	225	194	215	261	229	218	220	215	216
18	211	189	228	212	199	224	260	227	218	211	215	231
19	207	191	234	220	195	216	258	222	231	210	214	234
20	206	197	228	235	197	219	286	216	221	209	211	229
21	205	197	230	222	199	220	275	222	216	207	215	234
22	197	195	223	224	203	216	293	227	224	205	244	223
23	194	196	223	222	199	208	305	229	250	209	221	224
24	200	199	230	219	191	212	292	224	248	208	220	220
25	197	202	234	216	190	230	277	218	231	205	216	221
26	198	214	237	219	195	227	278	236	223	207	219	226
27	202	217	235	223	190	212	269	307	223	208	220	224
28	204	205	229	217	182	208	258	285	232	201	218	224
29	203	211	224	205	---	209	257	e290	220	201	219	232
30	202	213	234	209	---	219	257	296	214	200	219	267
31	202	---	223	207	---	223	---	252	---	229	213	---
TOTAL	6367	5996	7120	6845	5532	6483	7623	7634	7052	6490	6693	6702
MEAN	205	200	230	221	198	209	254	246	235	209	216	223
MAX	229	217	246	235	220	230	305	307	271	229	244	267
MIN	194	189	222	205	182	178	226	216	214	200	205	212
AC-FT	12630	11890	14120	13580	10970	12860	15120	15140	13990	12870	13280	13290

e Estimated.

PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NE--Continued
 (National Water-Quality Assessment, NAWQA, station)
 (Hydrologic bench-mark station and Radiochemical program)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

MEAN	195	200	199	199	200	205	207	204	197	195	192	194
MAX	221	225	230	230	226	236	254	246	235	224	216	227
(WY)	1987	1994	1995	1985	1986	1986	1995	1995	1995	1994	1994	1985
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1967 - 1995

ANNUAL TOTAL	77636	80537	
ANNUAL MEAN	213	221	199
HIGHEST ANNUAL MEAN			221 1995
LOWEST ANNUAL MEAN			188 1970
HIGHEST DAILY MEAN	294 Jul 7	307 May 27	463 Aug 23 1983
LOWEST DAILY MEAN	186 Feb 8	178 Mar 1	125 Feb 3 1989
ANNUAL SEVEN-DAY MINIMUM	193 Nov 15	187 Feb 25	153 Dec 29 1982
INSTANTANEOUS PEAK FLOW (STAGE)		360 May 27	1160 (3.83) Aug 23 1983
INSTANTANEOUS PEAK STAGE		*1.57 May 27	**5.10 Dec 18 1983
ANNUAL RUNOFF (AC-FT)	154000	159700	144200
10 PERCENT EXCEEDS	228	246	219
50 PERCENT EXCEEDS	211	218	197
90 PERCENT EXCEEDS	199	197	181

* From observer's reading during period when battery was dead; stage may have been higher.

** Backwater from ice.

PLATTE RIVER BASIN

91

06775900 DISMAL RIVER NEAR THEDFORD, NE--Continued
(National Water-Quality Assessment, NAWQA, station)
(Hydrologic and bench-mark station and Radiochemical program)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (µ S/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	BARO-METRIC PRES-ATURE WATER (°C) (00010)	COLI-FORM, FECAL, SURE (MM OF HG) (00025)	STREP-TOCOCCI, FECAL, OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS 0.7 µ M-MF (COLS./100 ML) (31625)	HARD-NESS NONCARB KF AGAR (COLS. PER 100 ML) (31673)	CALCIUM TOTAL (MG/L AS CaCO ₃) (00900)	DISSOLV FLD. AS CaCO ₃ (MG/L) (00904)	DIS-SOLVED (MG/L AS Ca) (00915)
NOV 14...	1300	210	180	8.2	8.5	697	10.8	34	35	71	0	23
MAR 13...	0930	219	176	8.3	11.0	691	9.5	30	--	69	0	22
JUN 01...	1330	245	190	8.5	18.0	688	8.2	260	86	82	0	26
AUG 08...	1330	211	175	8.3	23.0	685	9.5	130	170	69	0	22

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO ₃) (39086)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO ₃) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO ₃) (00453)	SULFATE DIS-SOLVED (MG/L AS SO ₄) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, RESIDUE AT 180 °C DIS-SOLVED (MG/L) (70300)
NOV 14...	3.3	6.6	0.3	4.3	76	0	93	6.2	0.90	0.30	52	155
MAR 13...	3.4	7.1	0.4	5.0	92	0	112	5.2	1.2	0.30	55	150
JUN 01...	4.1	9.8	0.5	5.4	91	0	111	4.6	1.1	0.40	53	164
AUG 08...	3.3	7.0	0.4	5.1	91	10	92	5.7	0.70	0.30	59	156

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO ₂ +NO ₃ DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
NOV 14...	145	0.21	87.9	--	<0.010	0.510	<0.015	0.20	0.20	--	0.71
MAR 13...	157	0.20	88.7	0.500	0.010	0.510	0.020	0.38	0.40	<0.20	0.91
JUN 01...	161	0.22	108	--	<0.010	0.360	0.020	0.58	0.60	<0.20	0.96
AUG 08...	160	0.21	88.9	--	<0.010	0.280	<0.015	0.30	0.30	<0.20	0.58

PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NE--Continued
 (National Water-Quality Assessment, NAWQA, station)
 (Hydrologic and bench-mark station and Radiochemical program)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (µ G/L AS AL) (01106)	BARIUM, DIS- SOLVED (µ G/L AS BA) (01005)	COBALT, DIS- SOLVED (µ G/L AS CO) (01035)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	LITHIUM DIS- SOLVED (µ G/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (µ G/L AS MO) (01060)	NICKEL, DIS- SOLVED (µ G/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (µ G/L AS SE) (01145)
NOV 14...	0.140	0.140	20	49	<3	12	11	2	<10	<1	<1
MAR 13...	0.150	0.130	30	48	<3	50	9	2	<10	<1	<1
JUN 01...	0.110	0.130	90	56	3	50	11	4	<10	<1	<1
AUG 08...	0.090	0.110	30	50	4	31	11	3	<10	<1	<1

DATE	SILVER, DIS- SOLVED (µ G/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (µ G/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (µ G/L AS V) (01085)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS- SOLVED (µ G/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (µ G/L) (75990)	CARBON, RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062MM (70331)
NOV 14...	<1.0	120	9	0.06	0.28	<1.0	0.020	1.1	435	247	--
MAR 13...	<1.0	110	11	--	--	--	--	1.2	887	524	21
JUN 01...	<1.0	140	12	0.04	0.30	0.0	0.010	3.2	--	--	--
AUG 08...	<1.0	120	11	--	--	--	--	1.4	385	219	22

PLATTE RIVER BASIN

93

06776500 DISMAL RIVER AT DUNNING, NE

LOCATION.--Lat 41°49'23", long 100°06'05", in sec.4, T.21 N., R.24 W., Blaine County, Hydrologic Unit 10210002, on right bank 100 ft downstream from bridge on State Highway 2 at southeast corner of Dunning and 1.9 mi upstream from mouth.

DRAINAGE AREA.--2,040 mi², approximately, of which about 45 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--March to June 1932, September 1945 to September 1995 (discontinued).

REVISED RECORDS.--WSP 2118: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,606.3 ft above sea level. Mar. 1 to June 30, 1932, nonrecording gage at site 0.2 mi upstream at datum 0.5 ft lower. Sept. 13, 1945 to Apr. 19, 1956, nonrecording gage on bridge 100 ft upstream at present datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	353	362	317	374	316	373	447	346	294	290	323
2	364	351	366	342	408	e320	374	433	327	296	283	317
3	367	338	379	e340	407	e330	367	424	319	301	282	303
4	348	343	372	e320	375	e340	361	405	339	307	283	295
5	353	335	358	e340	360	e340	384	388	347	299	283	291
6	431	322	348	e350	356	e340	399	408	345	299	285	290
7	367	332	352	e340	345	e340	405	440	351	309	287	284
8	352	344	330	e330	324	e350	402	453	357	313	287	277
9	361	343	330	e340	e320	e360	406	454	341	304	283	285
10	356	340	328	e360	e310	e380	388	421	334	299	283	285
11	341	340	343	e360	e300	e400	385	421	337	304	284	284
12	340	345	343	e360	e300	e390	374	440	351	304	278	291
13	336	349	351	e350	e310	e370	416	425	362	313	280	286
14	339	334	357	e350	e300	e370	440	381	386	327	274	285
15	352	322	352	360	e310	e380	431	384	367	391	271	288
16	379	324	361	374	312	e380	433	392	332	368	278	285
17	402	331	361	348	327	e390	431	381	302	355	287	291
18	364	314	368	324	349	e400	465	374	283	353	296	306
19	345	323	372	334	347	e370	405	395	293	349	292	323
20	338	344	366	340	356	e360	487	380	312	342	288	317
21	343	337	358	342	376	e370	484	367	289	338	308	290
22	346	326	359	347	377	e360	422	374	301	321	291	277
23	331	331	353	347	376	e350	411	393	370	312	290	274
24	332	333	354	338	362	356	408	367	326	295	300	272
25	333	333	356	347	368	382	393	363	285	285	309	282
26	342	348	356	347	373	406	384	384	274	283	308	290
27	354	370	353	365	337	366	361	555	272	277	302	294
28	368	337	343	349	326	337	374	549	287	277	315	305
29	365	333	344	343	---	336	368	486	290	277	334	320
30	358	347	337	362	---	346	394	428	292	276	331	388
31	351	---	337	364	---	347	---	377	---	280	350	---
TOTAL	11013	10122	10949	10730	9685	11182	12125	12889	9717	9648	9112	8898
MEAN	355	337	353	346	346	361	404	416	324	311	294	297
MAX	431	370	379	374	408	406	487	555	386	391	350	388
MIN	331	314	328	317	300	316	361	363	272	276	271	272
AC-FT	21840	20080	21720	21280	19210	22180	24050	25570	19270	19140	18070	17650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	324	328	326	321	336	345	346	340	328	318	318	319
	MAX	377	369	380	371	391	421	427	416	419	404	381	366
	(WY)	1994	1994	1986	1988	1988	1977	1977	1995	1983	1993	1993	1987
	MIN	296	300	279	260	270	305	305	294	275	269	279	285
	(WY)	1952	1979	1973	1993	1962	1951	1946	1946	1946	1946	1971	1956

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	128073	126070	
ANNUAL MEAN	351	345	329
HIGHEST ANNUAL MEAN			368
LOWEST ANNUAL MEAN			305
HIGHEST DAILY MEAN	449	555	672
LOWEST DAILY MEAN	270	271	100
ANNUAL SEVEN-DAY MINIMUM	289	278	191
INSTANTANEOUS PEAK FLOW		1060	1290
INSTANTANEOUS PEAK STAGE		2.37	*5.21
ANNUAL RUNOFF (AC-FT)	254000	250100	238300
10 PERCENT EXCEEDS	382	401	370
50 PERCENT EXCEEDS	349	345	327
90 PERCENT EXCEEDS	323	287	290

e Estimated.

* Maximum observed, backwater from ice.

PLATTE RIVER BASIN

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE

LOCATION.--Lat 41°01'53", long 98°44'25", in NW1/4 NW1/4 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 mi², of which about 1,590 mi² 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, 1960 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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	188	217	e200	e310	255	204	445	425	277	246	95
2	157	186	211	e200	e320	234	229	463	444	274	203	88
3	166	187	221	e205	306	e230	263	420	616	250	189	105
4	170	197	218	e185	328	225	265	460	648	249	171	112
5	177	192	213	e190	335	216	273	406	656	384	281	122
6	175	184	e205	e205	327	e210	254	451	646	238	1040	121
7	170	184	e210	e190	314	e195	249	612	652	206	544	104
8	171	188	e215	e190	293	e185	252	726	747	193	515	105
9	163	194	e210	e210	294	e190	250	595	718	179	310	106
10	165	191	e215	e225	287	e195	250	529	669	166	262	103
11	164	193	e215	e240	e250	198	253	461	481	154	215	110
12	169	191	e215	e235	e230	206	269	431	416	149	184	119
13	166	199	e220	e250	e200	223	252	682	433	141	172	117
14	175	198	e220	e250	e210	231	246	514	376	124	163	99
15	181	197	e220	e240	e220	223	235	367	342	131	160	89
16	200	197	e230	e265	e220	222	227	332	317	141	160	90
17	232	197	e245	e270	e230	210	235	300	290	137	153	92
18	286	194	e245	e264	e240	236	395	279	264	131	132	101
19	276	188	e260	e270	e250	222	509	239	246	133	122	124
20	252	215	e280	e270	262	215	431	227	231	140	138	144
21	228	257	e270	e270	234	200	434	215	223	138	183	167
22	200	234	e273	e250	244	198	410	232	211	123	163	242
23	187	207	e280	e260	256	194	364	262	479	124	135	228
24	189	188	e270	e280	258	190	342	285	281	131	112	193
25	189	179	e280	e300	248	210	345	264	265	151	94	179
26	189	183	e280	e290	249	557	361	296	261	157	90	175
27	186	215	e280	e300	257	516	374	1150	254	151	97	170
28	181	235	e270	e300	261	350	335	1970	335	144	99	166
29	180	229	249	e290	---	323	332	1030	297	112	101	164
30	181	210	234	e290	---	264	328	829	284	100	95	175
31	185	---	e230	e300	---	222	---	557	---	106	91	---
TOTAL	5857	5997	7401	7684	7433	7545	9166	16029	12507	5234	6620	4005
MEAN	189	200	239	248	265	243	306	517	417	169	214	133
MAX	286	257	280	300	335	557	509	1970	747	384	1040	242
MIN	147	179	205	185	200	185	204	215	211	100	90	88
AC-FT	11620	11900	14680	15240	14740	14970	18180	31790	24810	10380	13130	7940

PLATTE RIVER BASIN

95

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	173	189	178	181	259	359	277	305	427	225	149	150
MAX	619	272	275	281	543	1747	549	562	2741	1121	482	370
(WY)	1947	1947	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

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	83571		95478		239	
ANNUAL MEAN	229		262		483	
HIGHEST ANNUAL MEAN					161	
LOWEST ANNUAL MEAN					28000	
HIGHEST DAILY MEAN	1340	Mar 5	1970	May 28		Jun 23 1947
LOWEST DAILY MEAN	87	Aug 22	88	Sep 2	.00	Aug 5 1980
ANNUAL SEVEN-DAY MINIMUM	93	Aug 19	95	Aug 27	.65	Aug 4 1980
INSTANTANEOUS PEAK FLOW (STAGE)			2520	May 28	e50000	Jun 22 1947
INSTANTANEOUS PEAK STAGE			5.79	May 28	*27500	(11.00)Jun 24 1968
ANNUAL RUNOFF (AC-FT)	165800		189400		e12.00	Jun 22 1947
10 PERCENT EXCEEDS	331		431		339	
50 PERCENT EXCEEDS	199		225		190	
90 PERCENT EXCEEDS	133		131		102	

e Estimated.

* Maximum discharge, computed.

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, 19,300 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. FT ³ /S (00061)	SPECIFIC CONDUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	OXYGEN- DISSOLVED (MG/L) (00300)			
MAY									
17...	1110	308	493	8.5	15.0	9.6			
JUL									
03...	1545	243	445	8.6	25.5	8.2			
AUG									
01...	1100	282	325	8.4	19.0	8.1			
SEP									
19...	1140	116	414	8.7	15.5	9.2			
DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)
MAY									
17...	1110	--	--	--	--	--	--	--	--
JUL									
03...	1545	150	180	50	13	12	0.4	10	214
AUG									
01...	1100	--	--	--	--	--	--	--	--
SEP									
19...	1140	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

97

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
MAY 17...	--	--	--	--	--	--	--	--
JUL 03...	18	4.8	0.30	46	287	0.39	188	0.760
AUG 01...	--	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (µ G/L AS B) (01020)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)
MAY 17...	--	--	--	--	--	--	--	--
JUL 03...	0.010	0.770	<0.015	0.240	0.260	60	45	14
AUG 01...	--	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06784200 SHERMAN RESERVOIR NEAR LOUP CITY, NE

LOCATION.--Lat 41°18'10", long 98°52'45", in SW1/4 NW1/4 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, 69,650 acre-ft June 1, elevation, 2,162.5 ft; minimum observed, 28,550 acre-ft Sept. 11, elevation, 2144.0 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	2,157.6	56,420	--
Oct. 31.....	2,157.0	54,920	-1,500
Nov. 30.....	2,156.5	53,700	-1,220
Dec. 31.....	2,156.1	52,720	-980
CAL YR 1994	--	--	+1,660
Jan. 31.....	2,155.7	51,770	-950
Feb. 28.....	2,155.4	51,060	-710
Mar. 31.....	2,155.2	50,580	-480
Apr. 30.....	2,155.4	51,060	+480
May 31.....	2,162.4	69,360	+18,300
June 30.....	2,162.3	69,080	-280
July 31.....	2,155.3	50,820	-18,260
Aug. 31.....	2,146.7	33,100	-17,720
Sept. 30.....	2,150.6	40,520	+7,420
WTR YR 1995.....	--	--	-15,900

* Elevations read on or near last day of month.

PLATTE RIVER BASIN

99

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE

LOCATION.--Lat 41°12'13", long 98°26'46", in SE1/4 NW1/4NE1/4 sec.10, T.14 N., R.10 W., Howard County, Hydrologic Unit 10210003, on left bank at St. Paul, 50 ft (revised) 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 mi², of which about 3,130 mi² 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 (revised) upstream at same datum. Mar. 17 to May 31, 1978, nonrecording gage on railroad bridge immediately upstream at same datum.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1260	1660	1280	e940	3180	1790	1580	1900	3640	1010	546	342
2	1290	1740	1160	e820	2680	1590	1330	2500	3350	992	894	352
3	1530	1720	1370	e840	2200	1600	1390	2580	2870	954	759	402
4	1530	1820	1350	e760	3060	1770	1550	3060	3060	1320	734	475
5	1590	1830	1250	e660	2830	1580	1690	2300	3220	992	663	615
6	1550	1960	e900	e740	2580	e1000	1870	1970	2910	948	2880	693
7	1430	1910	e720	e860	2540	275	1780	2670	2400	794	2250	565
8	1870	1880	e680	e840	2580	274	1600	2720	2000	637	1500	414
9	1410	1980	e760	e880	2400	e600	1570	2030	3060	491	1140	355
10	1230	1960	e760	e1040	2020	e900	1780	1890	2910	413	817	336
11	1140	2170	e800	e1200	e1900	e1200	1860	1790	2170	360	722	307
12	1220	1970	e780	e1160	e1600	e1450	1670	1530	1590	315	685	319
13	1290	1970	e820	e1320	e1250	1650	1410	1710	1410	266	552	450
14	1370	2140	e860	e1300	e1300	1720	1080	1950	1050	211	474	529
15	1360	1880	e960	e1280	2370	1580	1480	1670	860	235	535	461
16	1550	1760	e1000	e1340	2200	1630	1620	1400	707	277	563	419
17	1730	1730	e1040	e1400	2240	1740	1490	1510	723	321	582	406
18	2290	1490	e1140	e1380	2720	1840	2160	1250	707	447	525	451
19	2160	1480	e1160	e1420	1640	1820	2650	1090	691	468	517	618
20	1940	1570	e1180	e1440	1340	1780	2430	1040	691	491	914	1600
21	1830	1600	e1240	e1400	1670	1820	2420	1140	660	462	873	1780
22	1760	1520	e1320	e1380	2300	1830	2240	1190	615	424	839	1680
23	1790	1470	e1460	e1380	1620	1920	1790	1470	675	497	608	1440
24	1700	1430	e1540	e1400	1640	1940	1890	1580	644	523	479	1450
25	1610	1410	e1680	e1440	1570	2070	1840	1070	675	562	450	1280
26	1540	1400	1750	e1480	1530	3250	1550	1130	600	811	421	1210
27	1370	1670	1830	e1700	1670	3600	1600	4540	615	672	401	1170
28	1620	1980	1630	e1850	1910	2840	1300	12100	739	517	418	1130
29	1840	1750	1320	e1900	---	2180	1150	5440	973	444	417	1200
30	1990	1520	e1100	e2200	---	2000	1290	4340	992	324	395	1320
31	1930	---	e1040	2580	---	1790	---	4190	---	374	339	---
TOTAL	49720	52370	35880	40330	58540	53029	51060	76750	47207	17552	23892	23769
MEAN	1604	1746	1157	1301	2091	1711	1702	2476	1574	566	771	792
MAX	2290	2170	1830	2580	3180	3600	2650	12100	3640	1320	2880	1780
MIN	1140	1400	680	660	1250	274	1080	1040	600	211	339	307
AC-FT	98620	103900	71170	79990	116100	105200	101300	152200	93640	34810	47390	47150

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	1094	1235	1126	1161	1492	1751	1337	1151	1157	652	545	748
MAX	2444	1746	1836	1844	2478	4022	2291	2476	3253	3642	1171	1790
(WY)	1993	1995	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1963 - 1995

ANNUAL TOTAL	448833	530099	
ANNUAL MEAN	1230	1452	1118
HIGHEST ANNUAL MEAN			1832
LOWEST ANNUAL MEAN			831
HIGHEST DAILY MEAN	8000 Mar 5	12100 May 28	21800 Jun 12 1984
LOWEST DAILY MEAN	309 Jun 30	211 Jul 14	23 Aug 9 1980
ANNUAL SEVEN-DAY MINIMUM	392 Jun 26	284 Jul 11	31 Aug 4 1980
INSTANTANEOUS PEAK FLOW		14900 May 28	72000 Jun 23 1947
INSTANTANEOUS PEAK STAGE		5.21 May 28	12.69 Jun 23 1947
ANNUAL RUNOFF (AC-FT)	890300	1051000	809900
10 PERCENT EXCEEDS	1820	2380	1800
50 PERCENT EXCEEDS	1160	1410	1060
90 PERCENT EXCEEDS	614	466	344

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST/ FT ³ /S (00061)	SPECIFIC CONDUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	OXYGEN- DISSOLVED (MG/L) (00300)			
OCT									
14...	1350	1340	280	8.2	15.0	9.6			
NOV									
22...	1330	1490	300	8.2	3.0	12.7			
JAN									
25...	1050	1300	318	8.2	0.5	14.2			
FEB									
23...	1020	1520	291	8.4	7.5	11.2			
APR									
03...	1000	1650	307	8.4	10.0	11.8			
MAY									
16...	1100	1420	399	8.4	18.5	8.8			
JUL									
05...	0930	969	335	8.7	21.5	9.0			
AUG									
02...	1020	1000	332	8.4	21.5	8.3			
SEP									
18...	1020	435	366	8.6	17.0	9.5			

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)
OCT									
14...	1350	--	--	--	--	--	--	--	--
NOV									
22...	1330	--	--	--	--	--	--	--	--
JAN									
25...	1050	--	--	--	--	--	--	--	--
FEB									
23...	1020	23	120	39	5.8	8.8	0.3	7.6	130
APR									
03...	1000	--	--	--	--	--	--	--	--
MAY									
16...	1100	--	--	--	--	--	--	--	--
JUL									
05...	0930	92	150	46	7.6	11	0.4	8.1	160
AUG									
02...	1020	--	--	--	--	--	--	--	--
SEP									
18...	1020	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

101

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
OCT 14...	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--
FEB 23...	11	2.2	0.30	54	211	0.29	867	--
APR 03...	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--
JUL 05...	13	2.9	0.30	49	235	0.32	615	0.150
AUG 02...	--	--	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (μ G/L AS B) (01020)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (μ G/L AS MN) (01056)
OCT 14...	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--
FEB 23...	<0.010	0.890	0.030	0.170	0.160	30	26	4
APR 03...	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--
JUL 05...	0.010	0.160	0.020	0.120	0.120	50	24	4
AUG 02...	--	--	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06786000 NORTH LOUP RIVER AT TAYLOR, NE

LOCATION.--Lat 41°46'37", long 99°22'45", in NE1/4 SE1/4 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 mi², of which about 186 mi² 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	467	446	520	486	653	305	487	1180	1190	574	491	274
2	493	459	542	434	680	328	607	1130	1120	556	459	299
3	533	452	518	e420	678	376	649	1130	1060	538	366	333
4	529	445	505	e380	642	395	629	1160	956	529	322	331
5	511	452	427	e310	552	365	634	1120	1110	538	378	307
6	523	484	398	e360	545	320	609	1160	1040	495	415	304
7	582	519	e380	e410	542	e150	594	1160	1010	446	439	294
8	526	505	e350	e410	566	e200	572	1300	1260	454	410	285
9	477	483	e370	e430	579	e280	604	1210	1250	358	348	312
10	454	485	e360	e500	527	e360	657	1280	1180	317	347	372
11	442	486	e360	e560	474	e430	572	1370	1040	257	325	373
12	439	476	e350	e620	293	482	454	1310	958	235	245	471
13	440	509	e360	659	358	496	596	1180	830	224	248	473
14	448	474	e370	624	428	470	753	1050	848	199	278	459
15	457	453	e400	617	453	479	941	980	855	351	284	434
16	503	442	e430	595	511	502	887	939	808	478	283	416
17	573	501	e450	533	579	500	833	887	706	379	269	408
18	609	455	e490	462	582	591	980	714	638	344	260	423
19	549	411	e480	454	609	622	914	742	589	330	311	522
20	526	392	e480	484	545	582	1110	769	584	314	312	615
21	515	405	e500	477	551	541	1250	769	569	319	305	626
22	504	463	e560	548	513	509	1350	758	542	318	325	602
23	476	471	e620	506	496	482	1380	868	873	319	316	562
24	466	456	e660	519	496	463	1240	844	960	300	302	566
25	448	460	708	534	485	515	1220	801	814	308	292	553
26	455	490	678	629	466	743	1070	827	704	288	308	545
27	474	539	636	639	448	693	927	1500	665	268	329	544
28	478	426	572	619	403	498	782	2690	680	251	314	561
29	466	440	566	586	---	444	788	1680	654	247	281	591
30	473	464	603	551	---	489	925	1300	601	231	291	870
31	449	---	599	562	---	473	---	1170	---	290	286	---
TOTAL	15285	13943	15242	15918	14654	14083	25014	34978	26094	11055	10139	13725
MEAN	493	465	492	513	523	454	834	1128	870	357	327	457
MAX	609	539	708	659	680	743	1380	2690	1260	574	491	870
MIN	439	392	350	310	293	150	454	714	542	199	245	274
AC-FT	30320	27660	30230	31570	29070	27930	49620	69380	51760	21930	20110	27220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	476	506	477	486	556	620	597	540	478	317	299	386
MEAN	476	506	477	486	556	620	597	540	478	317	299	386
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1937 - 1995

ANNUAL TOTAL	183596	210130	
ANNUAL MEAN	503	576	478
HIGHEST ANNUAL MEAN			644
LOWEST ANNUAL MEAN			354
HIGHEST DAILY MEAN	1200	2690	2690
LOWEST DAILY MEAN	137	150	45
ANNUAL SEVEN-DAY MINIMUM	202	267	74
INSTANTANEOUS PEAK FLOW (STAGE)		3480 (5.59)	3480 (5.59)
INSTANTANEOUS PEAK STAGE		*6.42	**9.50
ANNUAL RUNOFF (AC-FT)	364200	416800	346600
10 PERCENT EXCEEDS	678	992	678
50 PERCENT EXCEEDS	490	500	470
90 PERCENT EXCEEDS	303	308	266

e Estimated.

* Backwater from ice.

** From floodmark; ice jam.

PLATTE RIVER BASIN

103

06787000 CALAMUS RIVER NEAR HARROP, NE

LOCATION.--Lat 41°56'48", long 99°23'10" in NW1/4 SE1/4 sec.22, T.23 N., R.18 W., Loup County, Hydrologic Unit 10210008, on right bank 44 ft upstream from bridge on U.S. Highway 183, 12.2 mi north of Taylor, and at mile 20.4.

DRAINAGE AREA.--693 mi², most of which does not contribute directly to surface runoff.

PERIOD OF RECORD.--March to July 1932. August 1931 to February 1932, July 1932 to June 1939, 1955-64 and 1977, gage heights or discharge measurements only. June 1978 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 2,260 ft above sea level, from topographic map. Prior to June 5, 1978, staff gage or reference point at same site at datum 1.0 ft higher.

REMARKS.--Records good except for periods estimated records, which are poor. Diversions for irrigation above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	210	242	229	231	232	299	399	716	284	254	222
2	207	210	251	e225	250	227	305	411	615	283	257	223
3	215	205	252	e220	296	228	302	449	527	281	247	224
4	211	208	253	e205	296	236	297	499	470	293	247	228
5	211	214	231	e215	310	235	284	494	539	281	250	232
6	219	215	214	e235	287	216	269	491	537	266	251	240
7	232	218	208	e240	267	e210	259	495	526	256	248	225
8	225	217	230	245	254	e205	256	515	536	252	244	220
9	218	217	225	261	250	e250	268	527	544	240	233	220
10	205	223	228	294	246	327	270	520	524	238	233	220
11	203	228	217	298	215	305	269	519	522	236	235	223
12	203	230	217	280	e210	295	270	534	526	228	233	286
13	202	235	225	264	e220	308	307	547	502	207	229	268
14	206	226	234	264	229	300	345	493	473	204	234	255
15	213	222	233	271	e230	287	390	438	439	241	232	247
16	228	220	234	265	230	273	419	410	409	272	232	236
17	256	225	237	250	238	268	426	396	374	261	231	233
18	263	220	236	232	242	299	468	375	356	247	234	241
19	244	215	239	234	254	309	488	351	335	228	233	262
20	240	221	235	230	260	315	591	326	317	241	237	282
21	225	238	236	219	268	317	637	316	300	252	230	286
22	220	235	236	215	273	297	614	307	297	245	234	267
23	218	229	237	212	272	282	576	360	386	244	233	256
24	213	222	238	214	268	277	534	358	389	241	228	254
25	211	225	248	214	270	292	471	341	369	238	222	253
26	213	230	255	217	265	343	432	362	368	235	239	256
27	213	253	259	225	261	342	386	573	353	230	242	255
28	215	235	258	228	250	331	345	1040	329	227	234	260
29	214	243	257	218	---	318	317	1210	310	224	232	266
30	212	236	258	216	---	303	320	1090	294	218	224	316
31	210	---	254	223	---	298	---	869	---	229	219	---
TOTAL	6766	6725	7377	7358	7142	8725	11414	16015	13182	7622	7331	7456
MEAN	218	224	238	237	255	281	380	517	439	246	236	249
MAX	263	253	259	298	310	343	637	1210	716	293	257	316
MIN	201	205	208	205	210	205	256	307	294	204	219	220
AC-FT	13420	13340	14630	14590	14170	17310	22640	31770	26150	15120	14540	14790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1995, BY WATER YEAR (WY)

MEAN	240	241	236	234	256	292	286	283	259	233	225	226
MAX	286	284	277	272	308	405	397	517	439	372	262	265
(WY)	1985	1985	1994	1984	1984	1987	1984	1995	1995	1993	1993	1986
MIN	218	217	199	188	219	230	212	216	200	186	194	193
(WY)	1995	1986	1981	1982	1981	1981	1981	1992	1981	1980	1991	1980

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1979 - 1995

ANNUAL TOTAL	86598	107113	
ANNUAL MEAN	237	293	251
HIGHEST ANNUAL MEAN			293
LOWEST ANNUAL MEAN			214
HIGHEST DAILY MEAN	400	1210	1210
LOWEST DAILY MEAN	150	201	90
ANNUAL SEVEN-DAY MINIMUM	183	207	169
INSTANTANEOUS PEAK FLOW (STAGE)		1380	1380 (4.68)
INSTANTANEOUS PEAK STAGE		4.68	*5.34
ANNUAL RUNOFF (AC-FT)	171800	212500	181700
10 PERCENT EXCEEDS	294	470	308
50 PERCENT EXCEEDS	232	250	240
90 PERCENT EXCEEDS	195	215	203

e Estimated.

* Backwater from ice.

PLATTE RIVER BASIN

06787300 CALAMUS RESERVOIR NEAR BURWELL, NE

LOCATION.--Lat 41°49'38", long 99°13'11", in SW1/4SW1/4 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 mi², approximately, of which about 110 mi² 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, 62,080 acre-ft Oct. 1, 1991, elevation 2228.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 130,970 acre-ft May 31, elevation, 2244.89 ft; minimum observed, 66,390 acre-ft Sept. 29, elevation, 2229.50 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	2,235.87	90,080	--
Oct. 31.....	2,236.86	94,170	+4,090
Nov. 30.....	2,236.98	94,670	+500
Dec. 31.....	2,236.99	94,710	+40
CAL YR 1994.....	--	--	-13,810
Jan. 31.....	2,236.95	94,550	-160
Feb. 28.....	2,237.98	98,950	+4,400
Mar. 31.....	2,240.41	109,860	+10,910
Apr. 30.....	2,244.13	128,070	+18,210
May 31.....	2,244.69	130,970	+2,900
June 30.....	2,244.07	127,760	-3,210
July 31.....	2,239.38	105,140	-22,620
Aug. 31.....	2,233.12	79,320	-25,820
Sept. 30.....	2,229.82	67,470	-11,850
WTR YR 1995.....	--	--	-22,610

* Elevations read on or near last day of month.

PLATTE RIVER BASIN

105

06787500 CALAMUS RIVER NEAR BURWELL, NE

LOCATION.--Lat 41°48'35", long 99°10'56", in NW1/4 NW1/4 sec.9, T.21 N., R.16 W., Garfield County, Hydrologic Unit 10210008, on left bank 20 ft downstream from highway bridge, 1.1 mi downstream from Calamus Dam, 1.7 mi upstream from mouth, and 3 mi northwest of Burwell.

DRAINAGE AREA.--994 mi², of which about 100 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1918: 1958. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,153.48 ft above sea level (levels by Bureau of Reclamation). Prior to Apr. 20, 1945, nonrecording gage at site 20 ft upstream; Apr. 21, 1945 to Jan. 28, 1964, water-stage recorder at site 400 ft downstream; Jan. 29, 1964 to Oct. 4, 1977, water-stage recorder at site 230 ft downstream; Oct. 5, 1977 to July 30, 1985, water-stage recorder at site 190 ft downstream; at present datum and July 31, 1985 to Feb. 28, 1991, water-stage recorder at present site, all at 3.00 ft higher.

REMARKS.--Records good. Diversions for irrigation above station, and since Oct. 1, 1985, flow regulated by the Calamus Dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
11	241	267	326	331	329	189	185	540	1060	43	289	269
2	182	269	327	331	327	167	185	559	923	251	291	272
3	126	263	325	334	345	159	181	667	872	348	291	280
4	80	263	322	334	359	157	174	789	708	348	286	300
5	43	264	316	316	374	156	185	763	430	285	290	304
6	34	265	313	301	372	160	186	764	427	277	291	300
7	30	282	304	280	370	172	174	779	438	279	291	286
8	30	285	307	273	344	160	160	783	428	278	294	288
9	30	285	308	299	324	272	163	802	428	260	287	291
10	31	288	312	336	317	178	157	817	375	237	287	294
11	129	286	316	360	316	167	157	776	331	232	288	295
12	278	288	316	367	271	169	147	772	312	233	291	327
13	285	290	312	355	194	161	64	726	274	234	289	337
14	276	284	319	334	179	163	53	682	265	232	285	331
15	272	282	325	328	182	164	48	638	260	246	284	331
16	287	286	326	339	187	164	45	567	222	265	287	331
17	310	292	323	342	193	165	44	515	201	261	283	326
18	315	282	326	345	196	170	65	491	163	255	281	331
19	310	288	317	343	191	165	48	456	119	297	276	322
20	310	296	308	320	196	162	44	410	86	276	278	337
21	308	301	308	308	199	166	45	420	73	258	278	374
22	305	301	310	308	194	168	43	431	75	257	275	382
23	295	302	310	313	176	170	139	471	75	256	274	383
24	281	302	311	313	194	171	291	506	66	258	273	382
25	264	303	313	303	197	171	298	494	70	248	272	382
26	264	304	312	298	192	171	363	487	66	242	270	387
27	264	311	312	312	191	166	376	754	64	231	272	385
28	269	320	309	318	190	165	379	1170	70	215	272	391
29	268	317	303	317	---	160	450	1290	60	212	271	361
30	266	321	313	321	---	166	442	1200	39	212	270	227
31	269	---	323	327	---	178	---	1170	---	215	268	---
TOTAL	6652	8687	9772	10006	7099	5272	5291	21689	8980	7741	8734	9806
MEAN	215	290	315	323	254	170	176	700	299	250	282	327
MAX	315	321	327	367	374	272	450	1290	1060	348	294	391
MIN	30	263	303	273	176	156	43	410	39	43	268	227
AC-FT	13190	17230	19380	19850	14080	10460	10490	43020	17810	15350	17320	19450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1995, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	180	189	265	291	291	227	204	258	235	319
MAX	404	330	334	323	328	338	489	700	339	475
(WY)	1989	1994	1994	1995	1994	1988	1987	1995	1991	1993
MIN	47.3	38.6	81.0	159	151	115	78.7	57.4	100	249
(WY)	1992	1992	1992	1986	1986	1992	1988	1989	1994	1987

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1986 - 1995
(SINCE CALAMUS DAM)

ANNUAL TOTAL	94518	109729	262
ANNUAL MEAN	259	301	301
HIGHEST ANNUAL MEAN			221
LOWEST ANNUAL MEAN			1995
HIGHEST DAILY MEAN	471	Mar 10	1290
LOWEST DAILY MEAN	20	May 29	30
ANNUAL SEVEN-DAY MINIMUM	29	May 28	40
INSTANTANEOUS PEAK FLOW			1380
INSTANTANEOUS PEAK STAGE			5.43
ANNUAL RUNOFF (AC-FT)	187500	217600	190100
10 PERCENT EXCEEDS	349	430	380
50 PERCENT EXCEEDS	302	287	288
90 PERCENT EXCEEDS	63	157	6

* Due to temporary closure of dam.

** Backwater from ice.

PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE

LOCATION.--Lat 41°15'48", long 98°26'56", in NW1/4 NW1/4 NE1/4 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 mi², of which about 1,240 mi² 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.

REMARKS.--Records fair 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	902	867	882	e860	1220	983	1080	1510	2730	865	659	874
2	907	874	963	e660	1260	e800	1000	1600	2550	855	724	837
3	891	882	1030	e580	1630	e680	1020	1560	2340	985	953	820
4	906	880	1020	e520	1480	e560	1070	1660	2130	1090	928	834
5	916	845	978	e480	1310	e540	1090	1600	2090	1170	883	822
6	890	804	e900	e520	1170	e540	1060	1620	1720	1020	1050	876
7	807	845	e540	e600	1110	e500	975	1820	1750	969	1130	864
8	810	849	e600	e580	1020	e480	953	1960	1720	888	995	823
9	810	827	e760	e620	1040	e520	978	1970	1970	837	920	846
10	759	850	e840	e740	1010	e860	1110	1980	1860	793	861	836
11	722	899	e900	e840	822	1520	1120	1940	1660	750	840	847
12	717	929	946	e860	693	1140	1040	1940	1500	642	839	900
13	924	968	e1300	e960	574	1040	907	1890	1430	536	834	1040
14	932	1010	1450	e940	576	975	854	1760	1370	464	823	1020
15	915	1010	1450	e940	581	931	807	1540	1210	489	823	976
16	1000	989	1460	e1020	716	929	909	1410	1110	585	803	954
17	1140	985	1430	e1080	766	939	990	1260	1010	638	799	939
18	1460	1030	1410	e1060	854	1030	1310	1140	973	724	788	953
19	1260	1040	1370	e1080	916	1070	1350	980	925	697	1040	1120
20	1150	1100	1320	e1080	1010	1080	1300	855	823	680	1180	1100
21	1090	1180	1430	e1060	1060	1000	1370	803	754	681	983	1260
22	1070	1080	1380	e1040	1040	903	1370	756	755	626	891	1260
23	1030	1020	1380	e1080	1010	900	1410	914	783	650	925	1240
24	1010	1000	1410	e1120	996	875	1520	927	933	670	907	1230
25	942	948	1350	e1150	1020	969	1580	1010	1120	620	886	1160
26	895	900	1380	e1140	1010	1360	1510	1010	1070	651	890	1140
27	834	1090	1260	e1160	1040	1470	1410	2750	972	613	885	1130
28	851	1070	1220	e1160	1110	1230	1280	6000	926	586	894	1110
29	857	931	1180	e1120	---	1120	1160	2990	889	569	883	1120
30	838	832	1190	e1100	---	1190	1320	2370	901	515	833	1200
31	879	---	1170	1100	---	1080	---	2500	---	531	837	---
TOTAL	29114	28534	35899	28250	28044	29214	34853	54025	41974	22389	27686	30131
MEAN	939	951	1158	911	1002	942	1162	1743	1399	722	893	1004
MAX	1460	1180	1460	1160	1630	1520	1580	6000	2730	1170	1180	1260
MIN	717	804	540	480	574	480	807	756	754	464	659	820
AC-FT	57750	56600	71210	56030	55630	57950	69130	107200	83260	44410	54920	59760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

MEAN	885	919	860	871	1096	1266	1103	1056	1036	697	657	803
MAX	1182	1198	1306	1308	1613	2589	1843	1743	2516	2471	1812	1384
(WY)	1989	1980	1980	1990	1984	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1928 - 1995

ANNUAL TOTAL	377570	390113	
ANNUAL MEAN	1034	1069	936
HIGHEST ANNUAL MEAN			1223
LOWEST ANNUAL MEAN			668
HIGHEST DAILY MEAN	4750	6000	21300
LOWEST DAILY MEAN	521	464	85
ANNUAL SEVEN-DAY MINIMUM	597	546	98
INSTANTANEOUS PEAK FLOW		7800	90000
INSTANTANEOUS PEAK STAGE		5.32	*14.90
ANNUAL RUNOFF (AC-FT)	748900	773800	678100
10 PERCENT EXCEEDS	1380	1500	1350
50 PERCENT EXCEEDS	954	983	886
90 PERCENT EXCEEDS	739	676	499

e Estimated.

* From floodmark, datum then in use.

PLATTE RIVER BASIN

107

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 TEMPERATURES: 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. FT ³ /S (00061)	SPECIFIC CONDUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	OXYGEN- DISSOLVED (MG/L) (00300)			
OCT									
14...	1015	926	239	8.2	12.0	10.2			
NOV									
22...	0930	1090	268	8.4	2.0	13.4			
JAN									
25...	1420	1150	249	8.0	0.5	13.1			
FEB									
23...	1430	1030	247	8.3	10.0	10.8			
APR									
03...	1530	1100	258	8.3	13.0	10.0			
MAY									
16...	1600	1400	258	8.1	19.5	8.1			
JUL									
05...	1500	1190	246	8.8	25.5	9.4			
AUG									
02...	1340	758	275	8.8	23.5	9.9			
SEP									
18...	1405	954	239	8.7	19.5	9.1			
DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)
OCT									
14...	1015	--	--	--	--	--	--	--	--
NOV									
22...	0930	--	--	--	--	--	--	--	--
JAN									
25...	1420	--	--	--	--	--	--	--	--
FEB									
23...	1430	16	100	32	5.0	7.5	0.3	7.3	111
APR									
03...	1530	--	--	--	--	--	--	--	--
MAY									
16...	1600	--	--	--	--	--	--	--	--
JUL									
05...	1500	24	100	32	5.4	8.7	0.4	7.0	119
AUG									
02...	1340	--	--	--	--	--	--	--	--
SEP									
18...	1405	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITRO- GEN NITRATE DIS- SOLVED (MG/L AS N) (00618)
OCT 14...	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--
FEB 23...	7.3	1.7	0.30	47	179	0.24	498	0.910
APR 03...	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--
JUL 05...	5.9	2.0	0.30	36	169	0.23	544	0.080
AUG 02...	--	--	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (μ G/L AS B) (01020)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (μ G/L AS MN) (01056)
OCT 14...	--	--	--	--	--	--	--	--
NOV 22...	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--
FEB 23...	0.010	0.920	<0.015	0.120	0.110	30	32	5
APR 03...	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--
JUL 05...	0.010	0.090	<0.015	0.030	0.030	30	32	4
AUG 02...	--	--	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

109

06791150 LOUP RIVER NEAR PALMER, NE
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY RECORDS

LOCATION.--Lat 41° 16' 34", long 98°15' 05", in NE 1/4 NE1/4 sec. 17, T. 15N., R. 8W., Nance County, Hydrologic Unit 10210019, at bridge 3.7 mi north of Palmer and 8 mi downstream from confluence of Middle and North Loup Rivers.

DRAINAGE AREA.--12,500 mi².

PERIOD OF RECORD.--Water years 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CaCO ₃ (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	
MAR	15...	1100	2950	313	8.4	9.5	724	11.2	110	0	34	5.3
JUN	26...	1730	2660	274	9.1	25.0	715	9.7	110	0	36	5.8
	27...	0830	2370	282	8.8	20.5	715	8.7	120	0	38	6.1
JUL	28...	0930	1190	298	8.8	25.0	717	10.7	120	0	38	6.2

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ALKA- POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- LINITY WAT DIS TOT IT FIELD MG/L AS CaCO ₃ (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS CO ₃ (00452)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)
MAR										
15...	8.2	0.3	7.0	124	0	151	10	2.2	0.30	48
JUN										
26...	9.2	0.4	7.7	127	16	123	9.9	2.4	0.40	45
27...	9.5	0.4	7.6	130	14	129	10	2.4	0.30	45
JUL										
28...	10	0.4	8.0	123	10	131	9.2	2.7	0.30	43

DATE	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA+ ORGANIC DIS. (MG/L AS N) (00623)
MAR										
15...	202	193	0.27	1610	<0.010	0.830	<0.015	0.60	0.60	<0.20
JUN										
26...	207	193	0.28	1490	<0.010	<0.050	<0.015	1.1	1.1	0.30
27...	212	197	0.29	1360	<0.010	0.060	<0.015	1.3	1.3	0.30
JUL										
28...	205	192	0.28	659	<0.010	<0.050	<0.015	1.3	1.3	0.20

PLATTE RIVER BASIN

06791150 LOUP RIVER NEAR PALMER, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (μ G/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. %FINER THAN .062MM (70331)
MAR 15...	1.4	--	0.140	0.140	13	3	2.4	845	6730	24
JUN 26...	1.1	--	0.060	0.040	32	2	4.7	336	2410	52
JUN 27...	1.4	0.36	0.080	0.040	26	2	4.3	362	2320	37
JUL 28...	1.3	--	0.040	0.040	11	1	4.0	214	688	48

PLATTE RIVER BASIN

111

06792000 CEDAR RIVER NEAR FULLERTON, NE

LOCATION.--Lat 41°23'36", long 98°00'15", in NE1/4 NE1/4 sec.4, T.16 N., R.6 W., Nance County, Hydrologic Unit 10210010, on left upstream bank near county bridge, 3 mi northwest of Fullerton and 7.4 mi upstream from mouth.

DRAINAGE AREA.--1,220 mi², of which about 480 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1931 to June 1932, October 1940 to current year.

REVISED RECORDS.--WSP 1086: Drainage area. WSP 1390: 1932, 1941, 1943. WSP 1710: 1951(P), 1952(M), 1953, 1955(M).

GAGE.--Water-stage recorder. Datum of gage is 1,638.39 ft above sea level. Prior to Nov. 5, 1942, nonrecording gage; Nov. 5, 1942, to June 23, 1947, water-stage recorder; June 24, 1947, to Apr. 6, 1948, nonrecording gage; Apr. 7, 1948, to Apr. 15, 1971, water-stage recorder, all on downstream side of bridge pier at datum 2.00 ft higher; Apr. 16, 1971, to Aug. 26, 1980, on downstream side of bridge pier and Aug. 27, 1980, to Mar. 5, 1987, on left bank upstream from bridge both at present datum. Mar. 5, 1987 to Apr. 19, 1988, on left bank 400 ft downstream from county bridge.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by power developments, ground-water and surface-water withdrawals for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	217	324	e250	e310	308	424	527	1370	595	163	143
2	204	226	318	e240	e350	313	426	547	1100	626	185	141
3	212	228	329	e230	e400	318	505	593	994	538	164	152
4	223	227	339	e220	e450	334	520	737	1010	554	128	162
5	223	226	339	e230	e300	329	485	705	1070	e350	102	152
6	244	224	e320	e250	e300	e310	448	703	983	268	124	208
7	230	225	e280	e240	e310	e290	419	692	824	237	127	186
8	211	228	e260	e230	e300	e290	343	722	853	225	129	181
9	199	233	e260	e240	e290	e300	370	653	734	205	142	187
10	192	236	e250	e250	e350	e320	384	660	761	206	115	194
11	192	228	e230	e260	e320	350	416	625	666	197	95	205
12	190	236	e230	e270	e300	324	439	681	700	171	83	211
13	186	246	e230	e290	e300	334	476	711	646	155	80	230
14	181	243	e240	e270	e320	339	507	661	666	118	92	236
15	190	243	e250	e270	e330	339	531	700	640	99	132	237
16	220	243	e250	e270	e320	335	560	676	633	115	143	226
17	256	243	e250	e280	e320	313	687	613	608	142	141	216
18	352	243	e260	e280	e340	303	768	534	465	148	127	223
19	356	238	e280	e280	e400	313	646	429	435	143	153	275
20	310	257	e270	e270	e460	318	596	358	423	186	403	412
21	274	292	e270	e260	e370	318	626	375	389	140	212	196
22	245	292	e260	e270	e330	339	722	345	383	145	193	173
23	238	287	e250	e280	329	345	818	394	389	136	215	169
24	223	277	e260	e290	334	313	771	408	453	134	187	160
25	216	282	e280	e310	334	383	735	401	466	121	183	160
26	211	292	e290	e290	334	435	671	432	469	100	173	156
27	216	318	e300	e330	339	519	623	687	460	88	171	147
28	212	324	e310	e321	329	513	552	1170	463	95	158	152
29	212	329	e300	e300	---	557	435	865	440	79	143	156
30	218	329	e280	e290	---	476	465	1490	429	69	123	214
31	212	---	e260	e280	---	445	---	1830	---	86	130	---
TOTAL	7055	7712	8569	8341	9469	11023	16368	20924	19922	6471	4716	5860
MEAN	228	257	276	269	338	356	546	675	664	209	152	195
MAX	356	329	339	330	460	557	818	1830	1370	626	403	412
MIN	181	217	230	220	290	290	343	345	383	69	80	141
AC-FT	13990	15300	17000	16540	18780	21860	32470	41500	39520	12840	9350	11620

e Estimated

PLATTE RIVER BASIN

06792000 CEDAR RIVER NEAR FULLERTON, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995 BY WATER YEAR (WY)

MEAN	207	216	205	203	272	343	302	317	360	248	217	203
MAX	387	325	384	334	666	1003	668	675	1436	1380	1693	421
(WY)	1987	1987	1994	1984	1948	1993	1987	1995	1947	1950	1966	1985
MIN	144	159	130	129	149	174	172	175	143	48.0	69.3	123
(WY)	1943	1976	1942	1957	1942	1943	1981	1955	1981	1974	1971	1955

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941-1995	
ANNUAL TOTAL	121515		126430			
ANNUAL MEAN	333		346		258	
HIGHEST ANNUAL MEAN					474	
LOWEST ANNUAL MEAN					172	
HIGHEST DAILY MEAN	3220	Aug 6	1830	May 31	37100	Aug 13 1966
LOWEST DAILY MEAN	140	Jan 31	69	Jul 30	30	Jul 18 1974
ANNUAL SEVEN-DAY MINIMUM	154	Jan 29	91	Jul 25	33	Jul 14 1974
INSTANTANEOUS PEAK FLOW			2090	May 31	64700	Aug 13 1966
INSTANTANEOUS PEAK STAGE			4.21	May 31	*16.90	Aug 13 1966
ANNUAL RUNOFF (AC-FT)	241000		250800		186600	
10 PERCENT EXCEEDS	550		656		374	
50 PERCENT EXCEEDS	260		290		212	
90 PERCENT EXCEEDS	186		146		135	

* From high point on surge.

06792000 CEDAR RIVER NEAR FULLERTON, NE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1974 to current year.

PERIOD OF DAILY RECORD.-

SPECIFIC CONDUCTANCE: July 1974 to September 1983.

WATER TEMPERATURES: July 1974 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 550 microsiemens Jan. 1, 1978; minimum daily, 119 microsiemens Nov. 23, 1980.

WATER TEMPERATURES: Maximum, 36.0 °C July 7, 1975; minimum, 0.0 °C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. FT ³ /S (00061)	SPECIFIC CON- DUCT- ANCE (μS/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER °C (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)
OCT	18... 1145	--	318	8.3	15.0	14	130	42	7.0	8.2	0.3
DEC	20... 1115	--	320	8.5	1.0	15	130	42	7.0	9.5	0.4
FEB	21... 1130	--	310	7.4	6.5	22	140	43	7.1	8.6	0.3
APR	13... 1200	--	252	7.0	7.5	23	130	40	6.8	9.6	0.4
JUN	15... 1045	--	294	7.5	23.5	110	120	38	6.6	9.0	0.4
AUG	11... 1200	95	255	8.7	28.0	25	110	36	5.8	7.7	0.3

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT	18...	7.8	149	11	2.4	0.30	42	214	0.29	--	<0.010
DEC	20...	11	146	10	3.9	0.20	44	219	0.30	0.800	0.010
FEB	21...	7.5	149	9.9	2.0	0.20	45	217	0.30	--	<0.010
APR	13...	6.5	142	8.7	2.3	0.20	38	200	0.27	--	<0.010
JUN	15...	6.4	143	7.9	2.0	0.20	34	192	0.26	0.310	0.010
AUG	11...	6.6	129	8.7	1.7	0.30	41	186	0.25	47.6	<0.010

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (μG/L AS B) (01020)	IRON, DIS- SOLVED (μG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (μG/L AS MN) (01056)	
OCT	18...	0.620	0.030	--	<0.20	--	0.410	0.250	0.210	30	<3	9
DEC	20...	0.810	0.110	0.59	0.70	1.5	0.180	0.150	0.140	40	24	21
FEB	21...	0.840	0.040	--	<0.20	--	0.260	0.210	0.180	20	28	10
APR	13...	0.530	<0.015	--	0.30	0.83	0.210	0.150	0.150	20	33	11
JUN	15...	0.320	0.030	0.47	0.50	0.82	0.230	0.180	0.180	60	43	5
AUG	11...	<0.050	<0.015	--	0.30	--	0.150	0.140	0.150	20	16	2

PLATTE RIVER BASIN

06792500 LOUP RIVER POWER CANAL NEAR GENOA, NE

LOCATION.--Lat 41°25'03", long 97°47'37", in NE1/4 NE1/4 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 September 1993. October 1994 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	2630	2580	60	1800	310	2420	1970	2460	2180	1360	1210
2	1350	2540	2550	39	1760	174	2310	2370	2490	2140	1310	1220
3	1390	3560	2610	65	1060	437	2380	2390	2470	2060	1570	1220
4	1770	2670	2620	152	323	398	2410	2380	2470	2450	1600	1260
5	2140	2700	872	454	677	461	2420	2330	2440	2500	1510	1270
6	2210	2620	167	953	1310	194	2290	2420	2530	2390	1440	1380
7	2060	2410	150	873	856	246	2340	2440	2530	2110	2050	1430
8	1970	2340	346	935	202	511	2390	2420	2600	1860	2030	1340
9	2330	2630	241	1140	607	836	2480	2420	2600	1680	1810	1290
10	2060	2680	279	1550	1530	949	2460	2460	2580	1520	1640	1280
11	1950	2630	73	1740	500	804	2490	2400	2570	1420	1400	1320
12	1860	2630	302	1760	138	2200	2430	2440	2560	1290	1310	1440
13	1910	2510	553	1460	114	2730	2440	2450	2570	1160	1270	1490
14	2180	2410	100	1530	97	2730	2450	2450	2670	1030	1150	1750
15	2180	2620	527	1710	237	2710	2310	2440	2700	958	1190	1660
16	2270	2550	1230	1740	788	2670	2420	2480	2760	1020	1250	1540
17	2630	2560	664	1720	1660	2570	2450	2480	2680	1140	1230	1510
18	2680	2520	285	1690	1920	2640	2490	2520	2520	1120	1160	1530
19	2590	2640	207	1720	1800	2680	2450	2550	2370	1230	1230	1910
20	2630	2660	1260	1710	1730	2640	2400	2510	2220	1380	1610	2140
21	2600	2680	1010	509	1900	2640	2400	2500	2000	1310	1840	2360
22	2600	2580	931	543	2100	2610	2360	2460	2010	1270	1660	2570
23	2620	2650	641	1060	2340	2440	2270	2530	2200	1250	1660	2560
24	2570	2600	467	1220	2700	2560	1710	2490	2280	1570	1500	2330
25	2630	2610	974	1270	2660	2580	1430	2490	2670	1320	1390	2300
26	2560	2500	1420	1500	2660	2580	1970	2490	2710	1090	1320	2190
27	2420	2570	1510	1770	2780	2560	1910	2500	2470	1180	1310	2200
28	2320	2000	1500	1760	1340	2510	1930	2370	2490	1200	1260	2160
29	2290	1490	207	1670	---	2580	1940	2470	2240	1080	1230	2090
30	2500	1540	307	1580	---	2160	1960	2520	2190	1010	1160	2280
31	2530	---	131	1750	---	2270	---	2500	---	974	1140	---
TOTAL	69100	75730	26714	37633	37589	56380	68110	75640	74050	45892	44590	52230
MEAN	2229	2524	862	1214	1342	1819	2270	2440	2468	1480	1438	1741
MAX	2680	3560	2620	1770	2780	2730	2490	2550	2760	2500	2050	2570
MIN	1300	1490	73	39	97	174	1430	1970	2000	958	1140	1210
AC-FT	137100	150200	52990	74650	74560	111800	135100	150000	146900	91030	88440	103600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

	1910	1814	986	1182	1531	1857	2139	1988	1914	1346	1196	1547
MEAN	1910	1814	986	1182	1531	1857	2139	1988	1914	1346	1196	1547
MAX	2730	2624	1886	2194	2375	2673	2778	2767	2944	2706	2224	2640
(WY)	1987	1985	1982	1983	1987	1990	1977	1957	1962	1962	1951	1951
MIN	544	508	155	129	438	506	537	378	534	309	417	660
(WY)	1938	1939	1975	1985	1958	1939	1939	1984	1938	1980	1971	1938

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	599531	663658	
ANNUAL MEAN	1643	1818	1616
HIGHEST ANNUAL MEAN			1986
LOWEST ANNUAL MEAN			585
HIGHEST DAILY MEAN	3560	3560	3560
LOWEST DAILY MEAN	73	39	73
ANNUAL SEVEN-DAY MINIMUM	99	137	11
ANNUAL RUNOFF (AC-FT)	1189000	1316000	1171000
10 PERCENT EXCEEDS	2590	2620	2570
50 PERCENT EXCEEDS	1580	2000	1720
90 PERCENT EXCEEDS	540	537	527

06793000 LOUP RIVER NEAR GENOA, NE

LOCATION.--Lat 41°25'05", long 97°43'25", in SW1/4NE1/4 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 mi², of which about 5,620 mi² 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; 1993 (maximum stage).

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	35	205	e2100	e1500	e2100	2290	1750	5160	44	59	102
2	992	34	187	e1700	e1400	e2200	1700	1750	4240	40	54	98
3	904	33	171	e1800	e1100	e2100	205	2050	3660	41	54	107
4	630	61	221	e1700	e1600	e1900	574	2340	3940	72	55	112
5	69	102	1600	e1500	e3000	e2000	587	2120	4220	101	49	120
6	48	39	2140	e1200	e2000	e2000	374	1700	3460	84	48	112
7	40	62	1110	e1000	e2100	e1900	274	1790	3050	39	1040	106
8	38	31	765	e800	e2400	e2000	181	2880	3110	35	364	116
9	39	62	1300	e860	e2200	e1900	451	3100	3100	32	64	115
10	33	37	2410	e880	e2100	e1800	890	3100	3440	48	61	116
11	31	31	2480	e920	e1900	e2000	1400	2940	2780	34	57	101
12	31	32	1900	e1000	e2000	2750	1430	2320	2200	29	45	124
13	34	38	2360	e940	e2100	992	972	2940	2200	27	42	117
14	35	22	3110	e880	e3000	653	362	2800	1790	27	87	57
15	33	163	2000	e1000	e9000	500	128	2200	1170	26	97	41
16	35	286	2170	e920	e15000	265	536	1380	822	25	103	36
17	42	52	2600	e800	e9400	215	1380	1420	614	22	101	34
18	594	66	3000	e700	e3000	387	2290	1130	380	20	103	32
19	1150	49	3050	e760	e1900	578	2950	468	255	21	56	59
20	696	200	1580	e800	e1200	788	2640	260	202	20	107	44
21	227	579	2550	e2000	e900	755	2730	276	226	17	100	314
22	88	485	2020	e1900	700	788	2860	126	86	17	94	328
23	71	278	2730	e1500	e500	682	2970	724	90	17	100	202
24	151	87	2810	e1700	e300	206	3430	1160	64	20	103	59
25	59	103	2330	e1800	e300	322	3710	904	142	17	101	46
26	46	49	2230	e1700	321	1480	2810	811	226	216	110	25
27	36	326	2200	e1600	387	1170	2680	2070	275	256	110	21
28	34	1530	2000	e1600	e1500	3750	1930	16200	72	71	138	20
29	32	1410	3340	e1600	---	5360	1180	9710	64	59	86	19
30	32	645	3000	e1700	---	4140	918	5560	48	56	106	28
31	32	---	e2500	e1600	---	3210	---	6060	---	59	108	---
TOTAL	7352	6927	62069	40960	72808	50891	46832	84039	51086	1592	3802	2811
MEAN	237	231	2002	1321	2600	1642	1561	2711	1703	51.4	123	93.7
MAX	1150	1530	3340	2100	15000	5360	3710	16200	5160	256	1040	328
MIN	31	22	171	700	300	206	128	126	48	17	42	19
AC-FT	14580	13740	123100	81240	144400	100900	92890	166700	101300	3160	7540	5580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEARS (WY)

	129	406	1011	883	1268	1654	627	620	898	382	264	194
MEAN	129	406	1011	883	1268	1654	627	620	898	382	264	194
MAX	934	1650	2521	2632	3866	5650	3745	4777	7365	6214	4253	1327
(WY)	1947	1992	1987	1990	1988	1978	1984	1984	1947	1993	1966	1986
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1944 - 1995

ANNUAL TOTAL	400970	431169	
ANNUAL MEAN	1099	1181	692
HIGHEST ANNUAL MEAN			1993
LOWEST ANNUAL MEAN			182
HIGHEST DAILY MEAN	16000 Mar 5	16200 May 28	70800 Aug 13 1966
LOWEST DAILY MEAN	22 Nov 14	17 Jul 21	.00 Aug 20 1956
ANNUAL SEVEN-DAY MINIMUM	33 Oct 10	18 Jul 19	.00 Aug 20 1956
INSTANTANEOUS PEAK FLOW (STAGE)		20500 (8.81) May 28	129000 Aug 13 1966
INSTANTANEOUS PEAK STAGE		*10.78 Mar 10	13.93 Aug 13 1966
ANNUAL RUNOFF (AC-FT)	795300	855200	501500
10 PERCENT EXCEEDS	2610	2940	2000
50 PERCENT EXCEEDS	700	578	109
90 PERCENT EXCEEDS	57	34	12

e Estimated.

* Ice jam.

PLATTE RIVER BASIN

06794000 BEAVER CREEK AT GENOA, NE

LOCATION.--Lat 41°26'32", long 97°44'11", in NE1/4 SE1/4 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 mi², of which about 429 mi² 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	94	119	e116	135	116	285	252	609	109	40	40
2	83	96	117	e110	145	115	253	282	537	110	52	42
3	81	96	117	e100	430	108	237	353	466	111	60	39
4	82	96	117	e100	382	115	220	382	435	117	53	39
5	87	98	109	e110	203	114	201	404	380	123	44	43
6	89	99	83	e100	201	e115	190	437	357	122	42	48
7	94	100	e40	e108	180	e106	183	425	338	115	42	61
8	92	102	e45	e110	159	e100	177	420	328	101	40	74
9	88	102	e60	e120	146	e120	173	420	306	97	41	63
10	83	101	e80	e130	140	e180	165	429	298	87	31	61
11	81	101	e90	e135	165	e225	190	420	297	80	23	64
12	81	103	e100	e145	e150	269	212	412	296	71	15	82
13	81	104	e120	e160	e130	277	215	429	268	65	20	77
14	81	104	e114	e155	e130	266	268	410	243	55	20	74
15	81	103	e110	e155	e150	237	326	360	222	47	29	74
16	86	106	e115	e165	e150	209	337	324	202	44	33	72
17	97	107	e120	e170	e170	189	332	291	187	44	32	67
18	120	107	e120	e160	e180	180	343	265	173	41	32	65
19	138	108	e130	e155	133	180	409	244	160	38	28	313
20	134	117	e126	e155	130	217	483	224	152	44	40	412
21	117	123	e130	e150	128	214	546	207	148	47	62	143
22	108	120	e130	e140	133	192	525	194	142	42	68	100
23	100	121	e120	e150	137	182	470	205	142	43	90	86
24	95	116	e126	e155	137	165	404	224	135	39	168	75
25	93	115	e130	e160	136	231	361	296	136	37	98	72
26	94	116	e126	e155	131	255	332	292	130	40	76	66
27	95	123	e120	e170	133	253	300	359	128	35	72	66
28	98	120	e120	e160	125	296	280	780	126	24	70	66
29	99	118	e120	e150	---	324	268	827	120	26	59	68
30	97	118	e120	e160	---	327	252	954	115	29	54	85
31	97	---	e120	e150	---	317	---	727	---	35	46	---
TOTAL	2934	3234	3394	4359	4669	6194	8937	12248	7576	2018	1580	2637
MEAN	94.6	108	109	141	167	200	298	395	253	65.1	51.0	87.9
MAX	138	123	130	170	430	327	546	954	609	123	168	412
MIN	81	94	40	100	125	100	165	194	115	24	15	39
AC-FT	5820	6410	6730	8650	9260	12290	17730	24290	15030	4000	3130	5230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	80.5	85.5	83.8	83.1	133	202	164	177	232	141	97.2	81.9
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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	55012	59780	
ANNUAL MEAN	151	164	
HIGHEST ANNUAL MEAN			130
LOWEST ANNUAL MEAN			268
HIGHEST DAILY MEAN	1110	954	70.9
LOWEST DAILY MEAN	40	15	10000
ANNUAL SEVEN-DAY MINIMUM	54	24	.41
INSTANTANEOUS PEAK FLOW		1040	.90
INSTANTANEOUS PEAK STAGE		8.43	21200
ANNUAL RUNOFF AC-FT)	109100	118600	*18.70
10 PERCENT EXCEEDS	253	337	94160
50 PERCENT EXCEEDS	117	120	208
90 PERCENT EXCEEDS	72	44	88
			48

e Estimated.

* Site and datum then in use.

PLATTE RIVER BASIN

117

06795500 SHELL CREEK NEAR COLUMBUS, NE

LOCATION.--Lat 41°31'33", long 97°16'55", in NE1/4 NW1/4 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 mi².

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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	24	29	e21	65	e23	44	56	79	30	21	29
2	25	24	29	e18	86	e23	43	82	93	29	21	29
3	26	25	30	e38	499	e24	40	63	68	28	20	27
4	27	25	30	e25	489	e32	37	103	67	30	18	25
5	26	26	31	e24	e130	e32	35	130	71	33	15	24
6	27	26	e35	e26	e60	e32	36	73	66	38	17	23
7	29	26	48	e27	e48	e28	34	65	63	31	17	27
8	29	25	60	e30	e52	e33	35	127	59	28	13	27
9	28	26	66	e34	e58	e40	35	117	100	27	14	23
10	27	27	40	40	e46	46	37	152	82	26	13	21
11	26	27	e31	44	e39	64	39	145	67	25	14	20
12	25	26	25	51	e37	169	44	85	57	25	13	22
13	25	27	e18	57	e37	173	46	77	52	26	12	24
14	25	28	e21	66	e35	72	44	81	52	24	11	24
15	26	27	e25	61	e32	54	43	67	49	22	11	24
16	29	28	e32	e54	e35	48	39	55	46	23	14	21
17	34	27	e33	e49	e43	46	38	53	43	23	13	20
18	42	27	e34	e54	e49	45	69	48	41	22	12	20
19	53	29	e34	e34	50	51	131	45	39	21	12	120
20	32	28	e29	e27	42	48	86	43	38	21	14	849
21	25	40	e28	e19	40	45	107	43	37	21	16	1060
22	23	61	e31	e18	41	41	78	43	36	21	331	185
23	23	37	e32	e28	41	39	58	51	38	20	931	78
24	23	34	e26	e40	39	37	50	66	38	21	1780	55
25	23	31	e35	e43	36	38	47	54	40	21	865	46
26	23	30	e33	e46	36	99	46	46	36	19	123	41
27	24	37	e25	60	37	132	46	96	36	17	63	37
28	28	59	e27	e59	34	83	42	638	35	17	47	35
29	25	46	e30	e66	---	57	40	259	32	17	39	33
30	24	e33	e31	61	---	49	41	118	31	17	34	35
31	24	---	e26	e62	---	45	---	77	---	18	31	---
TOTAL	850	936	1004	1282	2236	1748	1510	3158	1591	741	4555	3004
MEAN	27.4	31.2	32.4	41.4	79.9	56.4	50.3	102	53.0	23.9	147	100
MAX	53	61	66	66	499	173	131	638	100	38	1780	1060
MIN	23	24	18	18	32	23	34	43	31	17	11	20
AC-FT	1690	1860	1990	2540	4440	3470	3000	6260	3160	1470	9030	5960

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

MEAN	17.0	15.2	14.5	17.7	50.9	100	40.2	67.6	117	64.4	38.3	24.8
MAX	74.6	59.9	42.2	84.7	322	469	210	552	702	515	202	195
(WY)	1983	1983	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1948 - 1995

ANNUAL TOTAL	23683	22615	
ANNUAL MEAN	64.9	62.0	
MEDIAN OF ANNUAL MEANS			47.3
HIGHEST ANNUAL MEAN			42.7
LOWEST ANNUAL MEAN			136
HIGHEST DAILY MEAN	1370	1780	13.6
LOWEST DAILY MEAN	16	11	4900
ANNUAL SEVEN-DAY MINIMUM	18	12	.40
INSTANTANEOUS PEAK FLOW		2380	.86
INSTANTANEOUS PEAK STAGE		14.69	8000
ANNUAL RUNOFF (AC-FT)	46980	44860	22.76
10 PERCENT EXCEEDS	109	81	34280
50 PERCENT EXCEEDS	33	35	64
90 PERCENT EXCEEDS	21	21	15

PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NE

LOCATION.--Lat 41°27'10", long 96°45'50", in SE1/4 sec.7, T.17 N., R.6 E., Dodge County, Hydrologic Unit 10200201, 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 mi², of which about 57,800 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--April 1949 to current year.

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

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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3030	3790	4590	e3500	e5400	2830	4310	5040	19000	18400	4930	1340
2	3180	3620	4730	e3700	e5800	3060	5830	5400	17000	18000	4400	2010
3	3210	3650	4080	e2200	e6000	3540	5460	6950	15000	16800	4950	1950
4	3250	3390	3560	e2000	e5600	3890	5100	8620	12900	16300	4920	1650
5	4260	3670	e3400	e1900	e5000	3550	4280	8370	13300	15400	4790	1450
6	3590	3670	e2600	e2100	e5000	3820	5210	9300	15900	15400	4070	1550
7	3790	3290	e2700	e2500	e4500	2020	4200	9830	13800	15100	4520	1470
8	3590	3690	e2800	e4000	e3800	1190	4430	11700	11700	13700	4810	1560
9	3020	4130	e2700	e3900	e3700	1660	4220	12500	11900	12600	5070	1540
10	3210	4090	e2600	e4300	e4000	2790	4000	12300	12100	12400	3470	1550
11	3030	4290	e2400	e4700	e3500	4960	4650	12400	12700	12500	3360	1720
12	2770	4910	e2600	e5200	e3300	10300	4850	10700	15400	11300	3180	1920
13	2170	4110	e3300	e5400	e3300	8290	4690	9840	17300	9550	2630	2130
14	2900	4710	e3200	e5800	e3800	6770	4470	8760	21000	8530	1780	2070
15	2450	4130	e3600	e5400	e3700	5700	3790	8060	20600	6650	2620	2070
16	2770	4110	e4000	e5800	e3700	6110	4010	6750	19300	5890	1560	2600
17	3300	4450	e4400	e6000	e3900	4220	3900	5830	18600	4940	2180	2230
18	4050	4280	e4600	e5800	e4500	4510	5450	5390	17700	4650	2040	2090
19	4090	4270	e5000	e5600	e5800	5600	7570	5160	18700	4570	1450	2810
20	5270	4360	e5800	e5600	e6400	4730	8660	4200	18400	4820	1940	3720
21	4910	5310	e5400	e5400	e7400	4880	8030	4060	17400	5060	2270	5520
22	4420	4830	e5200	e5200	7210	4560	7420	3960	17200	5840	3390	4840
23	4170	5190	e5200	e5600	5140	4320	7630	4960	18000	5590	4000	3930
24	4580	5510	e5600	e5400	4240	3970	6840	5810	18000	5740	4270	4190
25	4920	4580	e5800	e5600	3720	2950	6450	5670	16700	5690	4730	4330
26	3670	4380	e6600	e5200	3790	4980	6930	6460	15500	6690	3430	4270
27	3330	5930	e7600	e5200	3680	8510	6020	7690	16200	5760	2140	3940
28	3980	4760	e8200	e5000	3490	8610	5410	20200	16200	5580	2400	3870
29	3410	5070	e7600	e4900	---	7670	5390	25700	16600	5580	1670	4080
30	3660	5280	e6000	e4800	---	6870	4750	21700	17300	4760	1920	4010
31	3620	---	e4400	e4800	---	6370	---	20300	---	4870	1890	---
TOTAL	111600	131450	140260	142500	129370	153230	163950	293610	491400	288660	100780	82410
MEAN	3600	4382	4525	4597	4620	4943	5465	9471	16380	9312	3251	2747
MAX	5270	5930	8200	6000	7400	10300	8660	25700	21000	18400	5070	5520
MIN	2170	3290	2400	1900	3300	1190	3790	3960	11700	4570	1450	1340
AC-FT	221400	260700	278200	282600	256600	303900	325200	582400	974700	572600	199900	163500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1995, BY WATER YEAR (WY)

	MEAN	3667	3991	3487	3380	5275	7630	6013	5962	6563	3746	2376	2967
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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1949 - 1995

ANNUAL TOTAL	1572710	2229220	
ANNUAL MEAN	4309	6107	4569
HIGHEST ANNUAL MEAN			10070
LOWEST ANNUAL MEAN			2168
HIGHEST DAILY MEAN	38000	25700	82300
LOWEST DAILY MEAN	1180	1190	36
ANNUAL SEVEN-DAY MINIMUM	1670	1540	146
INSTANTANEOUS PEAK FLOW		32200	112000
INSTANTANEOUS PEAK STAGE		7.43	*15.55
ANNUAL RUNOFF (AC-FT)	3119000	4422000	3310000
10 PERCENT EXCEEDS	6290	13500	8430
50 PERCENT EXCEEDS	3650	4730	3660
90 PERCENT EXCEEDS	2220	2350	1380

e Estimated.

* Ice jam.

PLATTE RIVER BASIN

119

06796500 PLATTE RIVER AT LESHARA

LOCATION.--Lat 41°19'12", long 96°24'14", in NW1/4 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.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 13,800 ft³/s, July 8, gage height, 5.5ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3030	e3900	5530	5120	e6800	e3800	6630	6720	19200	e19000	e5800	2210
2	3340	e3900	5320	3050	e7400	e4200	6340	7560	17000	e20000	e5600	2530
3	3600	e4100	5140	2620	e7600	e4600	6300	8210	15800	e20000	e5800	2350
4	3550	e4200	5300	2440	e6800	e4800	6540	10400	14400	e20000	5400	2510
5	3940	e4000	4940	2080	e5200	e4800	5420	9710	14300	e18000	5720	2160
6	4350	e4100	4930	2300	e6200	e4600	5770	10200	14200	e17000	5710	2270
7	4030	e4100	e3400	e3000	e5600	e3000	5910	10600	13600	e17000	5370	2150
8	3840	e4000	e3900	e4000	e4800	e2500	5410	12200	13500	e15000	5850	2290
9	3690	e4300	e3100	e5200	e4300	e3500	5530	13400	14700	e14000	6850	2270
10	3400	e4300	e3100	e5000	e4600	e4800	5480	13600	16800	e14000	4600	2130
11	3850	e4500	e3000	e5200	e4300	7780	6280	13300	16900	e14000	4510	2290
12	2990	e4700	e3300	e5600	e4000	9510	6580	12100	17100	e13000	3970	3300
13	2980	e4900	e3600	e6000	e4200	9450	6210	10600	18400	e12000	3680	3320
14	2960	e4800	e4500	e6800	e4300	7480	6360	9720	21400	e10000	2350	3620
15	3150	e4700	e4600	e6600	e4200	6370	6770	9450	21800	e8600	2800	3470
16	3270	e4500	e5200	e7200	e4500	6140	6460	8810	20600	6360	3100	3790
17	4300	e4600	e5700	e6800	e5000	6330	6660	7940	19700	5350	2800	3810
18	4610	4870	5990	e6600	e5400	5590	8550	7580	18900	5400	2680	3520
19	4810	4600	6470	e6400	6110	5920	9890	7300	19000	5100	1940	3920
20	e5400	4570	6290	e6400	6360	6090	11500	6710	19200	5780	2150	5480
21	e5600	4720	6820	e6100	7810	6210	11200	6280	18400	5610	1980	6610
22	e5400	4780	7260	e6200	7710	6020	10200	6120	17900	6240	3300	7290
23	e4700	4990	6450	e6400	6340	6290	9800	6750	18400	6170	4010	6150
24	e4500	4940	7180	e6200	5940	5700	9280	7230	18700	6390	4660	5090
25	e4700	5150	7330	e6400	5450	5680	8510	7970	17800	6530	4630	5720
26	e4500	4670	8630	e6200	5300	5780	9830	7990	16000	6590	4390	5440
27	e4000	4760	10900	e6200	5410	7570	8360	9370	e17000	5900	2920	5250
28	e4100	5680	10700	e6200	5500	9570	8190	18300	e17500	6220	2710	5190
29	e4200	5100	10100	e6000	---	8510	7460	24300	e17500	e6000	2400	5130
30	e3900	5910	8390	e5600	---	7840	7280	20000	e18000	e5800	2180	5520
31	e4000	---	8490	e6000	---	7270	---	19600	---	e5600	2370	---
TOTAL	124690	138340	185560	165910	158130	187700	224700	330020	523700	326640	122230	116780
MEAN	4022	4611	5986	5352	5647	6055	7490	10650	17460	10540	3943	3893
MAX	5600	5910	10900	7200	7810	9570	11500	24300	21800	20000	6850	7290
MIN	2960	3900	3000	2080	4000	2500	5410	6120	13500	5100	1940	2130
AC-FT	247300	274400	368100	329100	313700	372300	445700	654600	1039000	647900	242400	231600

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	4022	4611	5986	5352	5647	6055	7490	10650	17460	8221	3471	3493
MAX	4022	4611	5986	5352	5647	6055	7490	10650	17460	10540	3943	3893
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	4022	4611	5986	5352	5647	6055	7490	10650	17460	5905	3000	3093
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	2604400	
ANNUAL MEAN	7135	7135
HIGHEST ANNUAL MEAN		7135 1995
LOWEST ANNUAL MEAN		7135 1995
HIGHEST DAILY MEAN	24300	May 29 24300 May 29 1995
LOWEST DAILY MEAN	1940	Aug 19 1930 Aug 25 1994
ANNUAL SEVEN-DAY MINIMUM	2220	Sep 5 2040 Aug 24 1994
INSTANTANEOUS PEAK FLOW	35300	May 28 35300 May 28 1995
INSTANTANEOUS PEAK STAGE	8.13	May 28 8.13 May 28 1995
ANNUAL RUNOFF (AC-FT)	5166000	5169000
10 PERCENT EXCEEDS	14800	13500
50 PERCENT EXCEEDS	5770	5400
90 PERCENT EXCEEDS	3080	2490

PLATTE RIVER BASIN

06797500 ELKHORN RIVER AT EWING, NE

LOCATION.--Lat 42°16'03", long 98°20'11", in NW1/4 SW1/4 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 mi², approximately, of which about 740 mi² 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 good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	90	134	e180	e275	228	1480	1120	5030	199	67	56
2	92	92	138	e180	e280	179	1520	1250	3390	186	69	52
3	98	91	139	e180	e290	e160	1570	1530	2420	175	69	51
4	100	93	140	e180	e310	e145	1480	1800	1880	166	64	49
5	99	94	111	e180	e290	e130	1330	2400	1530	158	82	45
6	99	96	77	e175	e280	e120	1230	2410	1290	149	124	80
7	98	95	e70	e165	e260	e160	1170	2290	1100	141	156	72
8	96	94	e65	e130	e255	219	1060	2090	970	132	149	61
9	94	91	e60	e100	e245	247	980	1980	914	122	128	57
10	92	92	e55	e150	e225	250	1050	2010	859	113	116	53
11	90	95	e50	e200	e210	215	1030	1950	861	106	110	50
12	86	96	e54	e240	e195	299	1030	1940	866	101	100	73
13	86	96	e60	e245	e190	277	1160	1880	869	95	94	71
14	85	94	e68	e245	e200	295	1330	1740	859	89	92	66
15	87	92	e76	e250	e220	298	1450	1720	807	96	81	58
16	94	92	e84	e250	e230	285	1810	1680	729	103	78	49
17	102	93	e90	e250	e240	264	2150	1500	655	128	73	45
18	116	93	e100	e250	e255	287	2070	1320	587	108	66	79
19	117	92	e110	e260	e270	308	2620	1160	518	99	69	169
20	111	96	e120	e265	280	332	2980	1020	465	95	68	152
21	107	102	e130	e265	298	348	3380	910	422	93	64	150
22	106	103	e140	e265	320	350	3810	869	383	124	84	139
23	103	99	e150	e270	295	327	3860	1030	348	112	254	132
24	101	103	e155	e270	300	293	3330	1180	323	102	162	112
25	99	104	e160	e270	294	283	2640	1230	303	95	105	115
26	96	105	e165	e270	279	461	2220	1300	283	86	88	111
27	96	115	e170	e270	267	589	1920	1600	268	79	86	106
28	95	113	e170	e265	242	567	1570	3340	253	74	84	115
29	93	120	e170	e265	---	690	1340	8030	233	70	80	129
30	91	123	e170	e265	---	853	1180	8480	215	66	71	122
31	89	---	e175	e270	---	980	---	6780	---	67	62	---
TOTAL	3009	2954	3556	7020	7295	10439	55750	69539	29630	3529	2995	2619
MEAN	97.1	98.5	115	226	261	337	1858	2243	988	114	96.6	87.3
MAX	117	123	175	270	320	980	3860	8480	5030	199	254	169
MIN	85	90	50	100	190	120	980	869	215	66	62	45
AC-FT	5970	5860	7050	13920	14470	20710	110600	137900	58770	7000	5940	5190

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)

MEAN	86.1	84.2	77.1	67.0	137	362	489	406	299	170	79.3	80.0
MAX	671	374	250	226	1172	2144	2081	2243	2690	1993	444	882
(WY)	1952	1952	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1947 - 1995

ANNUAL TOTAL	78338	198335	
ANNUAL MEAN	215	543	195
MEDIAN OF ANNUAL MEANS			129
HIGHEST ANNUAL MEAN			543
LOWEST ANNUAL MEAN			42.8
HIGHEST DAILY MEAN	1330	Mar 8	8480
LOWEST DAILY MEAN	50	Dec 11	45
ANNUAL SEVEN-DAY MINIMUM	59	Dec 8	55
INSTANTANEOUS PEAK FLOW			9050
INSTANTANEOUS PEAK STAGE			11.09
ANNUAL RUNOFF (AC-FT)	155400	393400	141200
10 PERCENT EXCEEDS	463	1550	409
50 PERCENT EXCEEDS	127	166	75
90 PERCENT EXCEEDS	92	73	30

PLATTE RIVER BASIN

121

06799000 ELKHORN RIVER AT NORFOLK, NE

LOCATION.--Lat 42°00'14", long 97°25'31", in SW1/4 SW1/4 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 81 275, and 3.6 mi upstream from North Fork Elkhorn River, and at mile 129.

DRAINAGE AREA.--2,790 mi², approximately, of which about 1,790 mi² 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 1,502.95 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 2.00 ft higher.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	331	381	e430	e450	655	2350	2560	16300	524	276	330
2	347	329	448	e380	e480	596	2340	2930	10800	514	275	270
3	352	335	472	e320	e520	e540	2350	3800	7550	507	286	239
4	361	320	479	e270	e590	e470	2300	5010	5460	539	280	232
5	377	307	450	e240	e680	e360	2270	5820	4250	586	291	218
6	386	321	370	e220	e540	e220	2050	5750	3470	574	313	243
7	387	339	345	e200	e460	e160	1950	5330	2940	533	323	243
8	358	351	210	e180	e410	e200	1860	4990	2490	500	351	247
9	334	354	e190	e160	e370	e350	1860	5170	2080	471	371	247
10	326	344	e180	e190	e330	e500	1820	6160	1880	455	365	225
11	316	331	e170	e220	e310	827	1970	5560	1760	440	345	225
12	293	332	e190	e270	e290	1290	2110	4950	1620	429	334	239
13	284	345	e210	e310	e310	1170	2250	4800	1520	408	328	266
14	289	354	e230	e360	e350	1150	2740	4390	1440	384	319	282
15	307	346	e255	e410	e410	1170	3530	3960	1380	368	310	274
16	338	332	e280	e450	473	1360	3880	3590	1360	373	307	262
17	358	325	e300	e480	542	1420	4380	3280	1340	374	303	270
18	467	322	e350	e500	706	1480	5080	2880	1370	364	302	357
19	535	323	e390	e520	714	1550	5550	2420	1290	369	316	2190
20	516	331	e450	e540	695	1640	6430	2200	1200	356	309	1460
21	504	371	e520	e560	741	1650	7280	2000	1110	344	328	843
22	482	373	e540	e570	735	1690	7200	1880	1010	357	6280	711
23	434	371	e580	e580	918	1570	7200	2010	960	359	12000	611
24	411	359	e600	e580	766	1560	6660	2310	896	404	3500	578
25	371	344	e630	e570	743	1690	5180	2500	788	376	1760	558
26	349	347	e650	e560	838	1730	4310	2620	706	356	1100	547
27	347	372	e660	e540	838	2220	3780	3200	658	337	854	532
28	356	374	e670	e530	724	2300	3110	5190	614	319	718	571
29	361	343	e630	e520	---	2320	2670	7520	592	311	582	548
30	355	312	e560	e490	---	2310	2470	10800	553	291	473	659
31	343	---	e490	e460	---	2260	---	17500	---	280	385	---
TOTAL	11598	10238	12880	12610	15933	38408	108930	143080	79387	12802	34284	14477
MEAN	374	341	415	407	569	1239	3631	4615	2646	413	1106	483
MAX	535	374	670	580	918	2320	7280	17500	16300	586	12000	2190
MIN	284	307	170	160	290	160	1820	1880	553	280	275	218
AC-FT	23000	20310	25550	25010	31600	76180	216100	283800	157500	25390	68000	28720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	313	317	292	281	480	914	1040	870	903	486	320	281
MAX	1418	847	607	624	1862	3819	3715	4615	4673	3663	1398	1444
(WY)	1952	1952	1952	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	240490	494627	
ANNUAL MEAN	659	1355	
MEDIAN OF ANNUAL MEANS			541
HIGHEST ANNUAL MEAN			433
LOWEST ANNUAL MEAN			1355
HIGHEST DAILY MEAN	3470	Mar 4	17500
LOWEST DAILY MEAN	170	Dec 11	160
ANNUAL SEVEN-DAY MINIMUM	197	Dec 8	197
INSTANTANEOUS PEAK FLOW (STAGE)			19200
INSTANTANEOUS PEAK STAGE			13.05
ANNUAL RUNOFF (AC-FT)	477000	981100	391800
10 PERCENT EXCEEDS	1300	3670	1060
50 PERCENT EXCEEDS	448	500	306
90 PERCENT EXCEEDS	286	276	160

† Estimated.

* Backwater from ice.

PLATTE RIVER BASIN

06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NE

LOCATION.--Lat 42°10'44", long 97°29'04", in SW1/4 sec.31, T.26 N., R.1 W., Pierce County, Hydrologic Unit 10220002, on left downstream wingwall of county road bridge, 2.5 mi southeast of Pierce, and at mile 22.8.

DRAINAGE AREA.--701 mi², of which about 30 mi² is noncontributing.

PERIOD OF RECORD.--August 1960 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 1,553.07 ft above sea level (U.S. Weather Bureau levels).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	86	110	e86	e86	128	306	445	543	100	35	128
2	77	87	122	e76	e90	117	287	562	487	97	35	113
3	80	87	136	e66	e105	141	260	447	413	94	35	102
4	82	87	140	e54	e150	137	234	695	360	95	37	106
5	82	87	114	e70	e130	130	221	743	374	138	38	117
6	87	87	e82	e90	e120	e120	213	524	368	173	45	103
7	92	86	e75	e92	e110	e105	202	464	313	154	48	85
8	90	85	e69	e93	e105	e90	194	540	276	114	45	94
9	84	85	e62	e96	e100	e100	209	574	262	100	39	85
10	81	86	e56	e96	e97	117	299	697	300	92	37	76
11	78	86	e60	e97	e94	223	306	774	309	86	37	88
12	77	86	e65	e97	e90	393	302	663	266	81	35	78
13	75	89	e69	e96	e84	288	483	817	227	74	35	80
14	76	89	e72	e96	e88	219	543	803	206	68	36	66
15	76	86	e75	e95	e94	203	477	594	188	68	37	63
16	81	87	e76	e94	e100	198	344	486	173	66	40	62
17	88	88	e78	e93	e115	192	352	500	160	64	38	63
18	144	90	e80	e90	120	250	976	e430	145	61	39	86
19	201	90	e81	e87	126	375	2020	e410	135	61	53	474
20	137	90	e83	e84	168	313	1630	e380	127	58	48	473
21	112	97	e84	e82	196	269	1090	e360	121	55	45	357
22	106	99	e86	e79	205	237	836	e350	115	59	607	264
23	99	97	e88	e78	194	219	592	e370	126	54	1190	215
24	95	98	e89	e76	170	205	490	e400	131	53	1150	188
25	93	101	e90	e76	161	276	429	e480	121	49	940	172
26	93	102	e91	e76	160	566	378	e570	115	45	514	157
27	92	108	e92	e76	159	835	340	e800	116	44	383	142
28	91	104	e94	e76	132	687	310	e1150	118	41	293	129
29	88	109	e97	e77	---	474	298	e1600	112	38	227	121
30	87	111	e97	e78	---	376	330	e2140	103	34	182	132
31	86	---	e96	e82	---	324	---	e800	---	35	148	---
TOTAL	2909	2770	2709	2604	3549	8307	14951	20568	6810	2351	6471	4419
MEAN	93.8	92.3	87.4	84.0	127	268	498	663	227	75.8	209	147
MAX	201	111	140	97	205	835	2020	2140	543	173	1190	474
MIN	75	85	56	54	84	90	194	350	103	34	35	62
AC-FT	5770	5490	5370	5170	7040	16480	29660	40800	13510	4660	12840	8770

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1995, BY WATER YEAR (WY)

MEAN	47.2	47.8	45.5	43.4	103	205	179	151	173	95.7	51.6	48.5
MAX	206	139	122	111	834	1120	1004	663	799	834	210	191
(WY)	1993	1994	1994	1973	1971	1962	1984	1995	1967	1993	1993	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1960 - 1995

ANNUAL TOTAL	72329	78418	
ANNUAL MEAN	198	215	98.7
MEDIAN OF ANNUAL MEANS			75.4
HIGHEST ANNUAL MEAN			287
LOWEST ANNUAL MEAN			21.5
HIGHEST DAILY MEAN	2280	2140	May 30
LOWEST DAILY MEAN	45	34	Jul 30
ANNUAL SEVEN-DAY MINIMUM	53	36	Jul 29
INSTANTANEOUS PEAK FLOW		2160	Apr 19
INSTANTANEOUS PEAK STAGE		12.54	Apr 19
ANNUAL RUNOFF (AC-FT)	143500	155500	71500
10 PERCENT EXCEEDS	300	488	166
50 PERCENT EXCEEDS	97	103	44
90 PERCENT EXCEEDS	64	61	21

PLATTE RIVER BASIN

123

06799350 ELKHORN RIVER AT WEST POINT, NE

LOCATION.--Lat 41°50'22", long 96°43'38", in SW1/4NW1/4 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 mi², approximately, of which about 4,100 mi² 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 Bureau.

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.

REMARKS.--Records good except for period Aug. 2 to Sept. 21 which is fair, and periods of estimated record, which are poor. Some small diversions above station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
d1	698	633	960	e1000	e920	993	3540	3390	17800	1030	470	700
2	672	624	928	e850	e1000	e920	3470	3620	14700	991	522	605
3	688	623	1000	e740	e1250	e900	2900	4240	9770	970	536	515
4	710	633	1040	e633	e1700	e890	2970	5060	7500	956	532	447
5	720	630	1050	e600	e2000	e870	3060	6280	6510	1130	521	391
6	778	611	1070	e550	e1600	e840	3010	6650	5490	1220	509	390
7	796	617	921	e500	e1350	e750	3120	6260	4770	1190	520	383
8	769	635	e840	e480	e1200	e1000	3100	5980	4110	1130	529	373
9	705	644	e780	e600	e1100	e1300	3040	5760	3530	1040	530	388
10	654	635	e720	e720	e1050	1680	2870	7700	3250	931	539	350
11	612	647	e660	e1100	e1050	2720	3100	7880	3140	872	553	309
12	572	666	e680	e1500	e1000	2900	3370	6590	2930	829	539	316
13	545	688	e740	e1600	e960	2580	3450	6000	2620	766	499	309
14	539	688	e820	e1550	e980	2410	3880	5890	2280	698	496	302
15	532	681	e960	e1500	e1000	2270	4190	5290	2160	649	498	322
16	531	690	e1000	e1500	e1050	2410	4560	4730	2130	659	515	337
17	569	686	e1150	e1450	e1100	2600	4790	4090	2040	594	515	301
18	627	686	e1250	e1400	e1200	2780	5950	3580	1880	562	506	373
19	739	673	e1350	e1400	e1250	2880	7070	3350	1880	571	512	2270
20	891	675	e1500	e1400	e1400	2900	7600	3180	1970	579	518	4060
21	1040	839	e1700	e1350	1920	2700	8640	3280	1880	600	531	2500
22	1010	992	e1750	e1350	1840	2630	7970	3010	1740	599	1310	1550
23	878	1010	e1800	e1300	1360	2440	7560	3210	1660	638	14200	1140
24	785	930	e1850	e1300	1340	2430	7180	3270	1620	635	12400	962
25	728	925	e1800	e1300	1350	2840	6190	3470	1550	633	4250	903
26	699	871	e1700	e1250	1250	3580	5020	3790	1500	630	2810	852
27	678	889	e1700	e1200	1200	3850	4360	4860	1350	579	2070	814
28	670	972	e1600	e1150	1150	3820	3970	10400	1260	527	1530	735
29	656	987	e1500	e1100	---	3570	3660	9750	1190	482	1220	687
30	661	998	e1400	e1000	---	3200	3530	10500	1100	442	982	704
31	647	---	e1200	e920	---	3080	---	13100	---	412	804	---
TOTAL	21799	22478	37419	34293	35570	70733	137120	174160	115310	23544	52466	24288
MEAN	703	749	1207	1106	1270	2282	4571	5618	3844	759	1692	810
MAX	1040	1010	1850	1600	2000	3850	8640	13100	17800	1220	14200	4060
MIN	531	611	660	480	920	750	2870	3010	1100	412	470	301
AC-FT	43240	44590	74220	68020	70550	140300	272000	345400	228700	46700	104100	48180

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

	MEAN	512	554	534	498	989	1922	1825	1591	1464	981	562	505
MAX	1606	1239	1314	1106	2744	5256	6171	5618	3844	6945	1994	1646	
(WY)	1987	1987	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1973 - 1995

ANNUAL TOTAL	505053	749180	
ANNUAL MEAN	1384	2053	
MEDIAN OF ANNUAL MEANS			994
HIGHEST ANNUAL MEAN			813
LOWEST ANNUAL MEAN			2253
HIGHEST DAILY MEAN	9000	Mar 5	17800
LOWEST DAILY MEAN	361	Jun 18	301
ANNUAL SEVEN-DAY MINIMUM	412	Feb 6	314
INSTANTANEOUS PEAK FLOW			19000
INSTANTANEOUS PEAK STAGE			12.67
ANNUAL RUNOFF (AC-FT)	1002000		1486000
10 PERCENT EXCEEDS	2620		4750
50 PERCENT EXCEEDS	998		1100
90 PERCENT EXCEEDS	490		530

PLATTE RIVER BASIN

06799500 LOGAN CREEK NEAR UEHLING, NE

LOCATION.--Lat 41°42'46", long 96°31'18", in SE1/4SE1/4 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 mi².

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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	210	249	e200	e320	e225	452	727	1530	445	216	182
2	228	214	254	e190	e350	e250	441	757	1720	442	214	179
3	246	212	273	e185	e330	e270	418	761	1220	432	211	177
4	264	209	276	e180	e300	e260	396	860	1010	457	204	176
5	260	211	259	e180	e290	e240	389	1100	1100	452	196	174
6	268	209	e230	e160	e300	e230	372	937	1190	509	200	180
7	270	207	e210	e180	e280	e220	371	836	1100	459	203	184
8	258	207	e190	e210	e240	e180	368	985	1000	419	191	181
9	241	204	e170	e240	e250	e200	395	1090	840	402	175	181
10	232	203	e165	e260	e230	e450	471	1200	910	381	170	179
11	228	203	e150	e280	e190	e650	578	1300	961	362	166	179
12	225	202	e155	e290	e220	1240	588	1030	807	342	160	190
13	223	210	e170	e310	e215	1000	608	953	738	319	159	189
14	220	202	e190	e300	e210	579	640	1090	788	299	163	186
15	220	198	e200	e290	e210	486	589	914	652	298	163	183
16	235	196	e220	e280	e215	430	522	804	632	322	162	182
17	255	208	e235	e290	e225	408	495	748	601	314	163	177
18	288	213	e250	e260	e240	417	662	704	571	289	155	221
19	283	203	e280	e250	e260	489	1520	661	549	276	156	445
20	258	204	e290	e240	e300	532	1190	625	531	267	159	736
21	242	278	e280	e250	e380	469	1200	597	512	256	159	492
22	235	304	e250	e250	e350	427	1170	583	515	257	168	311
23	230	260	e250	e260	e300	405	862	676	492	255	219	282
24	228	240	e260	e260	e260	385	763	747	487	245	316	261
25	222	235	e270	e270	e250	377	713	726	531	237	305	250
26	219	232	e280	e290	e240	625	693	623	512	231	235	241
27	223	251	e300	e310	e230	1010	652	1010	525	227	211	232
28	225	261	e330	e320	e220	793	615	8210	506	215	203	227
29	220	231	e250	e290	---	594	607	4050	485	205	198	252
30	213	236	e230	e260	---	514	635	2010	460	195	192	274
31	211	---	e210	e250	---	475	---	1490	---	202	188	---
TOTAL	7396	6653	7326	7785	7405	14830	19375	38804	23475	10011	5980	7303
MEAN	239	222	236	251	264	478	646	1252	782	323	193	243
MAX	288	304	330	320	380	1240	1520	8210	1720	509	316	736
MIN	211	196	150	160	190	180	368	583	460	195	155	174
AC-FT	14670	13200	14530	15440	14690	29420	38430	76970	46560	19860	11860	14490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	MEAN	110	98.9	87.5	96.0	249	419	271	304	478	242	150	120
	MAX	499	327	337	583	2177	2388	1741	1417	2766	1843	1056	613
	(WY)	1993	1994	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	1943	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1942 - 1995

ANNUAL TOTAL	125623	56343	
ANNUAL MEAN	344	428	218
MEDIAN OF ANNUAL MEANS			180
HIGHEST ANNUAL MEAN			710
LOWEST ANNUAL MEAN			66.4
HIGHEST DAILY MEAN	3940	Mar 4	20100
LOWEST DAILY MEAN	140	Feb 9	6.1
ANNUAL SEVEN-DAY MINIMUM	170	Dec 8	8.8
INSTANTANEOUS PEAK FLOW			25200
INSTANTANEOUS PEAK STAGE		18.50	*20.15
ANNUAL RUNOFF (AC-FT)	249200	310100	158100
10 PERCENT EXCEEDS	493	819	377
50 PERCENT EXCEEDS	255	261	90
90 PERCENT EXCEEDS	200	183	44

e Estimated.

* From floodmark.

PLATTE RIVER BASIN

125

06800000 MAPLE CREEK NEAR NICKERSON, NE
(National Water-Quality Assessment, NAWQA, station)

LOCATION.--Lat 41°33'39", long 96°32'27", in SW1/4NW1/4 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.--450 mi², approximately.

WATER-DISCHARGE RECORDS

ERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1630: 1957-58.

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 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	40	e60	e32	114	45	74	123	648	100	65	61
2	46	40	e54	e58	254	44	72	171	426	98	72	74
3	48	40	e50	e45	708	35	70	132	270	96	64	69
4	46	40	e48	e40	369	e30	61	228	240	96	58	61
5	44	41	e46	e43	e130	e25	58	341	369	112	52	58
6	47	41	45	e46	e100	e30	59	197	317	127	49	60
7	53	40	52	e50	e84	e34	58	179	233	104	47	33
8	48	40	59	e60	e96	e37	56	548	255	96	46	32
9	41	39	128	e66	e90	e45	56	386	227	93	42	33
10	38	39	135	e72	e74	56	60	518	328	89	41	e30
11	35	42	123	e82	e68	43	65	391	249	83	39	28
12	35	45	99	84	e66	e250	71	277	199	78	36	34
13	35	45	e80	77	e64	e200	84	265	178	72	35	37
14	35	44	e70	77	e58	e150	81	255	166	64	34	30
15	35	44	e60	85	e64	115	70	191	159	57	34	25
16	e42	43	e60	90	e60	e86	63	174	148	59	40	25
17	e54	43	e56	90	66	83	71	169	137	59	43	24
18	e72	45	e56	e70	59	83	125	152	127	59	42	22
19	88	47	e54	e56	64	91	375	145	113	59	39	66
20	e64	49	e50	e52	83	95	184	140	e112	56	39	192
21	49	71	e48	e56	64	86	364	137	e110	55	37	73
22	49	121	e52	e58	60	75	203	126	e108	56	100	58
23	45	74	e50	e62	54	67	159	176	e106	56	1230	48
24	42	61	e48	e66	51	63	141	347	e106	61	256	44
25	41	60	e54	e70	51	60	119	181	e110	72	100	40
26	42	59	e52	e74	50	80	115	151	117	65	65	38
27	44	71	e45	79	49	133	111	489	122	56	54	35
28	44	151	e48	85	48	104	104	1570	126	52	51	34
29	43	88	e52	e86	---	89	100	535	112	51	50	34
30	41	66	e45	e88	---	82	107	370	106	48	61	39
31	41	---	e37	92	---	78	---	333	---	47	63	---
TOTAL	1426	1669	1916	2091	3098	2494	3336	9397	6024	2276	2984	1437
MEAN	46.0	55.6	61.8	67.5	111	80.5	111	303	201	73.4	96.3	47.9
MAX	88	151	135	92	708	250	375	1570	648	127	1230	192
MIN	35	39	37	32	48	25	56	123	106	47	34	22
AC-FT	2830	3310	3800	4150	6140	4950	6620	18640	11950	4510	5920	2850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	MEAN	34.1	23.0	18.3	19.2	68.0	139	88.6	110	211	90.7	47.2	41.9
MAX	323	139	89.9	77.7	446	674	590	642	1252	1023	362	383	
(WY)	1983	1983	1994	1984	1971	1962	1984	1984	1960	1993	1959	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1952 - 1995

ANNUAL TOTAL	43474	38148	
ANNUAL MEAN	119	105	74.1
MEDIAN OF ANNUAL MEANS			56
HIGHEST ANNUAL MEAN			264
LOWEST ANNUAL MEAN			5.19
HIGHEST DAILY MEAN	3020	1570	9050
LOWEST DAILY MEAN	25	22	.10
ANNUAL SEVEN-DAY MINIMUM	27	28	.19
INSTANTANEOUS PEAK FLOW (STAGE)		2580	11600
INSTANTANEOUS PEAK STAGE		9.90	17.65
ANNUAL RUNOFF (AC-FT)	86230	75670	53660
10 PERCENT EXCEEDS	137	199	117
50 PERCENT EXCEEDS	59	63	18
90 PERCENT EXCEEDS	37	39	1.2

e Estimated.

* From floodmark.

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 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CaCO ₃ (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
MAR	15... 1800	106	770	8.1	14.5	735	9.2	340	19	96	24
JUN	01... 1430	644	534	8.2	17.5	732	8.1	220	7	63	16
JUL	13... 1200	76	735	8.6	29.5	729	8.0	330	88	85	28
AUG	24... 1200	202	386	7.6	24.0	728	7.9	130	1	36	9.4

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CaCO ₃ (39086)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO ₃ (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO ₃ (00453)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (MG/L) (70300)
MAR											
15...	29	0.7	13	320	0	390	51	12	0.40	16	470
JUN											
01...	18	0.5	10	216	0	264	31	8.1	0.40	13	329
JUL											
13...	29	0.7	7.6	239	11	270	55	9.5	0.30	21	461
AUG											
24...	11	0.4	19	127	0	155	31	6.8	0.40	13	253

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR 15...	453	0.64	135	4.02	0.080	4.10	0.400	1.1	0.90	1.5	1.3
JUN 01...	314	0.45	572	5.18	0.120	5.30	0.290	1.9	0.71	2.2	1.0
JUL 13...	407	0.63	94.6	6.08	0.020	6.10	0.020	0.38	0.28	0.40	0.30
AUG 24...	224	0.34	138	4.22	0.180	4.40	0.460	2.0	1.3	2.5	1.8

PLATTE RIVER BASIN

127

06800000 MAPLE CREEK NEAR NICKERSON, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. %FINER THAN .062MM (70331)
MAR 15...	5.6	5.4	0.260	0.230	56	16	8.9	1430	409	97
JUN 01...	7.5	6.3	0.210	0.210	27	3	15	8590	14900	91
JUL 13...	6.5	6.4	0.170	0.180	5	12	--	238	49	83
AUG 24...	6.9	6.2	0.210	0.200	79	6	12	2240	1220	88

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

LOCATION.--Lat 41°17'37", long 96°17'00", in SW1/4 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 mi², approximately, of which about 5,870 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	1160	1240	e1200	e1350	1770	3920	4600	17200	2000	845	1300
2	1130	1150	1260	e1100	e1600	1610	3840	4890	20500	1910	910	1180
3	1140	1130	1310	e1000	e2100	e1500	3730	5430	19800	1840	922	1100
4	1180	1130	1330	e920	e2600	e1400	3640	6410	13800	1820	868	1020
5	1240	1100	1350	e850	3500	e1300	3610	7900	10100	1870	842	977
6	1240	1130	1260	e780	3170	e1250	3470	8040	8640	1910	805	954
7	1280	1130	929	e720	2630	e1200	3310	7400	7280	2000	790	935
8	1320	1110	e860	e700	1980	e1150	3100	8400	7050	1860	773	942
9	1300	1120	e800	e860	1850	e1200	2970	8270	6120	1760	748	930
10	1250	1100	e750	e1200	2030	1720	3160	8520	5980	1630	734	918
11	1200	1090	e680	e1600	2040	3400	3440	10200	5580	1520	733	879
12	1160	1080	e800	e2200	1600	4520	3550	8610	5080	1460	725	865
13	1130	1090	e900	e2200	e1100	3970	3760	7490	4700	1380	708	886
14	1110	1090	e1050	e2150	e1100	3410	4170	7410	4450	1300	680	893
15	1080	1090	e1250	e2100	e1150	3150	4750	6800	4310	1230	685	879
16	1100	1070	e1350	e2000	e1250	2620	5110	5980	4120	1200	707	879
17	1140	1060	e1450	e1900	e1350	2750	5340	5230	3850	1180	719	866
18	1270	1060	e1550	e1850	1570	2790	5800	4720	3580	1140	727	851
19	1360	1070	e1650	e1800	1800	3070	8580	4280	3310	1060	691	926
20	1500	1060	e1750	e1750	2650	3410	8660	4030	3050	1040	667	1780
21	1500	1090	e1900	e1700	3480	3640	9730	3710	2910	1030	669	2490
22	1510	1280	e2000	e1650	3580	3260	9850	3660	2740	1020	687	2640
23	1450	1530	e2100	e1550	2660	3140	9170	4200	2620	999	2400	2280
24	1390	1470	e2000	e1500	2280	3060	8670	5010	2530	997	9930	1930
25	1290	1330	e2150	e1500	2160	2850	7960	4890	2510	1030	11100	1710
26	1260	1260	e2200	e1450	2090	3680	6850	4790	2520	1020	4860	1520
27	1220	1230	e2200	e1450	1950	5500	5990	5460	2480	999	3100	1410
28	1210	1310	e2000	e1450	1970	5130	5420	18500	2310	960	2270	1350
29	1200	1540	e1700	e1400	---	4640	4940	21200	2210	911	1920	1320
30	1200	1380	e1600	e1400	---	4330	4610	14700	2120	859	1690	1300
31	1170	---	e1500	e1400	---	4070	---	13800	---	798	1460	---
TOTAL	38680	35440	44869	45330	58590	90490	161100	234530	183450	41733	55365	37910
MEAN	1248	1181	1447	1462	2092	2919	5370	7565	6115	1346	1786	1264
MAX	1510	1540	2200	2200	3580	5500	9850	21200	20500	2000	11100	2640
MIN	1080	1060	680	700	1100	1150	2970	3660	2120	798	667	851
AC-FT	76720	70300	89000	89910	116200	179500	319500	465200	363900	82780	109800	75190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

	MEAN	681	680	604	569	1124	2284	1967	1950	2705	1327	855	703
MAX	2780	2156	1803	1650	6439	8082	10450	7565	11950	11470	4755	2705	
(WY)	1987	1987	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1929 - 1995

ANNUAL TOTAL	728560	1027487	
ANNUAL MEAN	1996	2815	1286
MEDIAN OF ANNUAL MEANS			1060
HIGHEST ANNUAL MEAN			3870
LOWEST ANNUAL MEAN			417
HIGHEST DAILY MEAN	14200	21200	93800
LOWEST DAILY MEAN	680	667	64
ANNUAL SEVEN-DAY MINIMUM	817	695	66
INSTANTANEOUS PEAK FLOW		23400	100000
INSTANTANEOUS PEAK STAGE		12.32	*16.60
ANNUAL RUNOFF (AC-FT)	1445000	2038000	931700
10 PERCENT EXCEEDS	3750	5980	2530
50 PERCENT EXCEEDS	1400	1600	680
90 PERCENT EXCEEDS	922	879	295

e Estimated.

* From floodmark, site and datum then in use.

PLATTE RIVER BASIN

129

06800500 ELKHORN RIVER AT WATERLOO, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1977 to September 1981

WATER TEMPERATURES: November 1977 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 750 microsiemens Jan. 10, 1979; minimum daily, 235 microsiemens Mar. 15, 1979.

WATER TEMPERATURES: Maximum, 36.0 °C Aug. 19, 1979; minimum, 0.0 °C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 μ M-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	HARD- NESS NONCARB DISSOLV FLD.AS CaCO ₃ (MG/L) (00904)	
MAR	16...	1130	2830	585	8.2	11.0	736	10.3	--	--	250	37
JUN	01...	1630	15600	399	7.9	10.5	712	7.1	--	--	160	--
	02...	1100	18800	383	7.6	18.5	732	6.2	--	--	150	18
JUL	13...	1030	1380	546	8.6	29.5	729	8.9	--	--	220	51

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO ₃) (39086)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO ₃) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO ₃) (00453)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
MAR											
16...	72	16	22	0.6	10	208	0	254	56	11	0.30
JUN											
01...	46	10	13	0.5	8.5	--	--	--	24	4.8	0.40
02...	43	9.2	13	0.5	8.3	127	0	155	21	4.7	0.40
JUL											
13...	55	19	25	0.7	6.9	163	8	184	73	11	0.30

DATE	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
MAR											
16...	22	374	350	0.51	2860	3.33	0.070	3.40	0.280	1.9	0.52
JUN											
01...	18	252	230	0.34	10600	1.46	0.040	1.50	0.140	0.96	0.66
02...	18	238	201	0.32	12100	1.36	0.040	1.40	0.150	0.85	0.65
JUL											
13...	22	345	319	0.47	1290	1.76	0.040	1.80	0.020	1.1	0.38

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (µ G/L AS AL) (01106)	BARIUM, DIS- SOLVED (µ G/L AS BA) (01005)	COBALT, DIS- SOLVED (µ G/L AS CO) (01035)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	LITHIUM DIS- SOLVED (µ G/L AS LI) (01130)
MAR 16...	2.2	0.80	5.6	4.2	0.270	0.240	--	--	--	8	--
JUN 01...	1.1	0.80	2.6	2.3	0.120	0.120	--	--	--	70	--
JUN 02...	1.0	0.80	2.4	2.2	0.110	0.120	--	--	--	67	--
JUL 13...	1.1	0.40	2.9	2.2	0.080	0.080	--	--	--	7	--

DATE	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (µ G/L AS MO) (01060)	NICKEL, DIS- SOLVED (µ G/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (µ G/L AS SE) (01145)	SILVER, DIS- SOLVED (µ G/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (µ G/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (µ G/L AS V) (01085)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. %FINER THAN .062MM (70331)
MAR 16...	2	--	--	--	--	--	--	6.6	1330	10200	82
JUN 01...	3	--	--	--	--	--	--	9.9	4200	177000	72
JUN 02...	4	--	--	--	--	--	--	10	6120	311000	59
JUL 13...	1	--	--	--	--	--	--	7.2	397	1480	73

PLATTE RIVER BASIN

131

06801000 PLATTE RIVER NEAR ASHLAND, NE

LOCATION.--Lat 41°03'44", long 96°19'28", in SE1/4 SW1/4 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 mi² 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 1/2 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 1/2 mi upstream at datum 14.79 ft higher. June 17, 1948 to May 11, 1953, 1/2 mi downstream on Highway 6 bridge at datum 12.51 ft higher.

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 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4010	4250	6560	e5000	e9000	e5800	7360	9610	45400	18200	5870	2630
2	4030	4420	6250	e4000	e9400	e5200	6420	10300	41400	19400	5990	2320
3	4340	4430	6420	e3400	e10000	e5400	7420	11500	38600	18800	5800	2730
4	4350	4580	6120	e3200	e11000	e5600	7230	15300	31800	18400	6080	2600
5	4460	4380	5970	e3000	e10000	e5200	6860	18300	26900	17900	6110	2450
6	5260	4600	e4500	e3200	e9800	e4000	6420	19400	25600	17100	6060	2370
7	4830	4620	e3500	e5000	e9000	e2900	6710	18700	22900	16700	5410	2420
8	4870	4400	e2900	e8000	e8000	e2600	5940	22200	20400	14800	5930	2310
9	4670	4640	e3100	e9000	e7800	e2700	5980	24100	20600	12300	5850	2320
10	4320	4880	e3300	e10000	e7000	e3200	6010	24700	21000	11100	5640	2300
11	4390	4810	e3500	e11000	e6600	e5000	6550	26300	20800	10500	4280	2260
12	4320	4850	e3700	e11000	e5800	e8000	7020	23500	19700	10400	4010	2440
13	3980	5280	e4200	e10000	e5000	14700	6960	21200	20100	8800	3790	2660
14	3400	4880	e5200	e9600	e4800	11600	7140	20300	23000	7680	3230	2800
15	4160	5290	e7000	e9000	e4500	10300	7270	19500	24800	7220	2570	2740
16	4060	4960	e7200	e9200	e4500	8790	7430	17900	24300	6220	3060	2670
17	4340	5040	e7400	e9800	e4600	8600	8020	14000	22900	5820	2360	3050
18	5130	5410	e7600	e9200	e5000	7200	8550	12500	21500	5470	2540	2810
19	5660	5200	e7200	e8600	e6000	7200	12500	11700	20200	5150	2260	e3030
20	5700	5310	e7000	e8000	e7800	7990	15400	11000	20800	5470	1730	e5620
21	6340	5740	e7400	e7000	e8400	7450	17500	9700	21300	5670	1960	8230
22	6090	6320	e7800	e6600	e9000	7260	18200	9700	19600	6280	2060	7790
23	5480	6280	e8000	e6400	e8000	6840	17300	10200	19300	6890	5290	6390
24	5070	6440	e7800	e6400	e7600	6420	17400	12500	20200	6980	16500	5350
25	5150	6540	e8000	e6600	e7000	5970	16600	13300	19500	7450	16500	5520
26	5540	5980	e8400	e7000	e7000	5330	15600	12400	17500	7080	7810	5740
27	4550	5930	8650	e7200	e7000	7970	13400	14800	16400	7770	5140	5860
28	4260	7040	8730	e7400	e6600	10000	12100	33800	16900	6570	3630	5630
29	4710	6310	8460	e7600	---	8590	10700	53500	16900	6370	3270	5740
30	4240	6470	7830	e7200	---	7990	10400	37900	17900	6040	2610	5880
31	4370	---	e6400	e8000	---	7540	---	39300	---	5460	2640	---
TOTAL	146080	159280	196090	226600	206200	213340	302390	599110	698200	309990	155980	116660
MEAN	4712	5309	6325	7310	7364	6882	10080	19330	23270	10000	5032	3889
MAX	6340	7040	8730	11000	11000	14700	18200	53500	45400	19400	16500	8230
MIN	3400	4250	2900	3000	4500	2600	5940	9610	16400	5150	1730	2260
AC-FT	289700	315900	388900	449500	409000	423200	599800	1188000	1385000	614900	309400	231400

PLATTE RIVER BASIN

06801000 PLATTE RIVER NEAR ASHLAND, NE --Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

MEAN	4605	4899	4919	4849	5986	10270	7697	8249	10990	9549	4722	4769
MAX	8115	7222	7335	7310	7364	23190	14830	19330	23270	31980	10290	9825
(WY)	1994	1994	1994	1995	1995	1993	1993	1995	1995	1993	1993	1993
MIN	2433	3620	2879	2939	5127	5233	4618	2969	2928	2448	1288	1533
(WY)	1992	1989	1990	1991	1990	1991	1989	1989	1989	1991	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1989 - 1995	
ANNUAL TOTAL	2292280		3329920		a6795	
ANNUAL MEAN	6280		9123		11820	
HIGHEST ANNUAL MEAN					4612	
LOWEST ANNUAL MEAN					110000	
HIGHEST DAILY MEAN	35000	Mar 6	53500	May 29	Mar 10 1993	
LOWEST DAILY MEAN	2410	Sep 3	1730	Aug 20	662	
ANNUAL SEVEN-DAY MINIMUM	2790	Jan 15	2280	Aug 16	701	
INSTANTANEOUS PEAK FLOW (STAGE)			70300	May 29	*130000 (**19.23)	
INSTANTANEOUS PEAK STAGE			19.95	May 29	21.45	
ANNUAL RUNOFF (AC-FT)	4547000		6605000		4923000	
10 PERCENT EXCEEDS	9400		19400		11300	
50 PERCENT EXCEEDS	5300		6600		5400	
90 PERCENT EXCEEDS	3400		3200		2330	

c Estimated.

a Average discharge since storage in Lake McConaughy; average for water years 1942-52, 5961 ft³/s.

* Estimated; discharge includes overbank flow.

** Backwater from ice.

PLATTE RIVER BASIN

133

06803000 SALT CREEK AT ROCA, NE

LOCATION.--Lat 40°39'29", long 96°39'55", in NW1/4 SW1/4 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 mi².

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.

REMARKS.--Records good. Flood flow affected by several detention dams.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	14	21	27	25	15	38	185	732	25	22	7.2
2	7.8	8.8	21	21	27	13	35	134	342	25	22	10
3	7.8	8.4	20	18	48	14	34	469	241	25	23	12
4	9.3	10	19	13	44	16	33	1120	474	190	20	9.6
5	7.0	13	17	10	39	17	29	457	594	81	21	8.7
6	10	13	14	12	35	15	27	267	287	57	43	8.5
7	9.7	10	18	14	33	17	27	1060	282	46	27	8.0
8	7.6	10	26	15	36	17	27	2670	293	41	17	7.7
9	6.5	11	22	16	27	15	28	1480	214	37	14	7.9
10	6.0	10	19	17	26	23	48	1050	171	32	14	7.6
11	6.5	10	15	17	21	35	82	700	136	29	16	7.7
12	6.1	10	17	22	14	31	71	574	114	27	14	7.8
13	6.3	12	16	39	14	35	58	700	100	22	13	7.8
14	7.0	13	13	41	15	205	52	452	91	20	17	7.4
15	7.8	14	14	35	12	115	50	346	85	18	20	6.3
16	9.3	10	15	47	8.7	76	48	291	76	16	16	5.3
17	13	10	16	60	13	65	45	418	71	14	14	5.1
18	22	15	16	41	16	58	54	513	55	12	12	4.8
19	15	11	16	34	20	53	55	333	49	13	10	4.8
20	12	15	27	30	21	51	139	300	45	18	9.5	5.9
21	8.0	60	28	25	21	47	140	211	42	17	9.8	6.3
22	7.8	36	33	24	23	44	79	196	38	16	9.7	6.4
23	7.7	22	36	23	23	41	69	492	34	14	9.9	6.0
24	7.2	21	28	21	21	38	64	384	33	16	9.9	6.0
25	6.5	20	25	20	19	38	59	225	33	19	9.7	5.7
26	6.8	21	29	19	20	69	165	173	33	18	9.5	5.4
27	7.7	24	37	28	20	61	184	1140	31	17	9.2	5.2
28	8.8	26	34	34	18	51	103	770	32	17	9.0	4.8
29	9.0	23	27	27	---	46	87	393	30	16	7.5	5.4
30	9.0	21	25	21	---	42	86	256	27	14	7.0	6.9
31	9.6	---	23	25	---	40	---	424	---	15	6.5	---
TOTAL	272.6	502.2	687	796	659.7	1403	2016	18183	4785	927	462.2	208.2
MEAN	8.79	16.7	22.2	25.7	23.6	45.3	67.2	587	159	29.9	14.9	6.94
MAX	22	60	37	60	48	205	184	2670	732	190	43	12
MIN	6.0	8.4	13	10	8.7	13	27	134	27	12	6.5	4.8
AC-FT	541	996	1360	1580	1310	2780	4000	36070	9490	1840	917	413

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	MEAN	41.9	14.5	14.8	18.4	36.5	88.7	64.2	83.1	86.7	83.4	32.1	23.2
MAX	617	71.9	108	140	180	641	355	587	666	789	496	220	
(WY)	1974	1987	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1952 - 1995

ANNUAL TOTAL	16420.8	30901.9	
ANNUAL MEAN	45.0	84.7	49.1
HIGHEST ANNUAL MEAN			200
LOWEST ANNUAL MEAN			6.15
HIGHEST DAILY MEAN	1850	2670	6070
LOWEST DAILY MEAN	2.7	4.8	.20
ANNUAL SEVEN-DAY MINIMUM	4.4	5.5	.61
INSTANTANEOUS PEAK FLOW		3690	16700
INSTANTANEOUS PEAK STAGE		18.48	22.70
ANNUAL RUNOFF (AC-FT)	32570	61290	35550
10 PERCENT EXCEEDS	80	207	72
50 PERCENT EXCEEDS	20	21	10
90 PERCENT EXCEEDS	7.9	7.7	3.8

PLATTE RIVER BASIN

06803080 SALT CREEK AT PIONEERS BOULEVARD AT LINCOLN, NE

LOCATION.--Lat 40°46'13", long 096°43'05", in SW1/4 SW1/4, sec. 2, R. 6 E., T. 9 N., Lancaster County, Hydrologic Unit 10200203, on left bank downstream from bridge.

DRAINAGE AREA.--220 mi².

PERIOD OF RECORD.--August 1994 to current year. Published as "above Beal Slough", August-September, 1994.

GAGE.--Water-stage recorder. Elevation of gage is 1,150 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
11	14	17	24	e35	36	25	47	231	1100	e32	17	11
2	14	21	23	e31	37	24	45	233	427	e32	18	24
3	14	17	24	e30	119	26	42	401	289	e32	18	14
4	14	19	23	e29	122	28	40	1390	286	e240	18	13
5	16	20	22	e28	58	29	38	637	694	e90	18	12
6	15	21	e30	e28	48	46	36	371	346	e74	21	12
7	16	19	e26	e29	44	57	36	928	298	e54	32	11
8	16	17	e22	e32	51	38	35	3130	308	e47	19	11
9	14	17	e20	e35	53	31	34	2050	271	e42	17	10
10	14	17	e19	e40	37	33	52	1300	215	39	16	10
11	13	17	e20	44	34	50	131	830	181	36	16	11
12	13	18	e21	46	e32	48	115	651	157	33	16	11
13	13	17	e22	62	e30	47	80	749	141	31	15	10
14	13	18	e23	85	e27	283	64	557	106	29	65	10
15	14	17	24	63	e27	259	57	412	92	27	24	9.9
16	15	18	24	71	e28	135	53	338	83	25	20	9.3
17	17	16	25	113	29	103	48	403	74	24	18	8.7
18	23	18	25	111	30	87	62	520	67	23	16	8.1
19	22	19	26	84	31	77	75	447	61	29	14	9.0
20	18	21	32	51	31	73	161	317	56	23	14	8.2
21	17	62	41	71	31	66	263	277	53	24	13	9.3
22	16	59	45	62	32	59	132	228	49	23	13	9.4
23	15	30	52	40	33	54	100	464	45	22	13	8.9
24	16	24	49	37	31	50	86	539	e43	20	13	8.4
25	15	23	39	36	29	49	78	293	e42	22	13	8.5
26	15	23	40	45	30	97	221	234	e42	21	13	8.6
27	15	27	49	37	30	104	342	1010	e42	20	13	8.4
28	16	29	51	45	29	71	185	1190	e40	18	12	8.5
29	17	27	40	41	---	60	144	516	e37	18	12	8.0
30	17	24	35	39	---	55	134	349	e35	17	11	e9.0
31	17	---	41	35	---	50	---	357	---	17	11	---
TOTAL	484	692	957	1535	1149	2214	2936	21352	5680	1184	549	310.2
MEAN	15.6	23.1	30.9	49.5	41.0	71.4	97.9	689	189	38.2	17.7	10.3
MAX	23	62	52	113	122	283	342	3130	1100	240	65	24
MIN	13	16	19	28	27	24	34	228	35	17	11	8.0
AC-FT	960	1370	1900	3040	2280	4390	5820	42350	11270	2350	1090	615

eEstimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	15.6	23.1	30.9	49.5	41.0	71.4	97.9	689	189	38.2	17.7	24.6
MAX	15.6	23.1	30.9	49.5	41.0	71.4	97.9	689	189	38.2	17.7	38.9
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994
MIN	15.6	23.1	30.9	49.5	41.0	71.4	97.9	689	189	38.2	17.7	10.3
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	39042.2	
ANNUAL MEAN	107	107
HIGHEST ANNUAL MEAN		107 1995
LOWEST ANNUAL MEAN		107 1995
HIGHEST DAILY MEAN	3130	May 8 1995
LOWEST DAILY MEAN	8.0	Sep 29 1995
ANNUAL SEVEN-DAY MINIMUM	8.5	Sep 23 1995
INSTANTANEOUS PEAK FLOW	3490	May 8 1995
INSTANTANEOUS PEAK STAGE	17.36	May 8 1995
ANNUAL RUNOFF (AC-FT)	77440	
10 PERCENT EXCEEDS	279	259
50 PERCENT EXCEEDS	32	30
90 PERCENT EXCEEDS	13	13

PLATTE RIVER BASIN

135

06803093 HAINES BRANCH AT SW 56th ST. AT LINCOLN, NE

LOCATION.--Lat 40°45'59", long 096°47'48", in SE1/4 NE1/4, sec. 12, T. 9 N., R. 5 E., Lancaster County, Hydrologic Unit 10200203, on left upstream bank.

DRAINAGE AREA.--60 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 1,170 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	e2.0	3.7	e2.8	8.7	4.8	7.4	81	58	9.8	4.5	2.9
2	1.3	e1.6	3.4	e2.6	14	e4.7	7.2	47	47	9.7	4.7	3.3
3	1.3	e1.8	3.6	e2.6	27	e4.6	6.9	105	39	11	5.0	2.8
4	e1.4	e2.0	3.6	e2.5	28	e4.5	6.1	198	98	32	4.4	2.7
5	e1.7	e2.1	3.4	e2.5	23	e4.6	6.1	86	78	19	4.4	2.2
6	e1.6	e2.1	1.5	e2.6	9.9	e4.5	6.1	68	49	14	6.8	2.3
7	e1.5	e2.0	e1.4	e2.5	10	e4.9	6.2	608	e46	13	5.3	1.6
8	e1.6	e1.9	e1.5	e3.3	7.5	e5.5	6.7	786	e47	11	3.7	2.1
9	e1.5	e1.9	e1.8	e4.5	9.2	6.0	11	251	e49	9.7	3.2	2.0
10	e1.5	e1.9	e2.0	5.5	16	9.4	20	217	e40	9.4	3.3	2.0
11	e1.4	e1.9	e2.2	5.8	6.8	14	28	145	e38	8.5	3.1	1.7
12	e1.3	e1.8	2.6	6.8	5.3	11	20	111	e34	7.7	2.6	2.7
13	e1.4	e1.8	3.0	8.1	5.5	11	14	106	e32	6.5	2.2	1.9
14	e1.5	e1.8	3.6	8.9	6.3	36	12	69	e31	5.6	11	1.4
15	e1.7	e2.0	3.9	8.2	6.3	e26	11	55	24	5.2	8.1	1.1
16	e1.9	e2.1	4.2	9.9	5.5	e21	10	50	22	5.0	5.5	1.3
17	e2.5	e2.4	4.3	11	6.6	e15	10	43	19	4.7	4.2	1.2
18	e4.0	e2.7	4.2	8.6	9.4	e13	12	118	18	4.6	3.2	1.3
19	e2.5	e2.1	4.4	7.2	13	e12	10	70	16	5.1	2.6	1.8
20	e2.3	e3.4	5.1	6.6	8.2	e11	43	56	15	5.7	3.4	2.1
21	e2.0	e5.4	5.8	5.7	9.9	9.8	36	50	14	5.1	2.3	2.6
22	e1.5	4.6	6.2	5.5	7.0	9.3	21	46	13	4.8	2.5	2.7
23	e1.4	4.0	5.7	5.6	6.9	8.5	17	83	12	4.4	2.9	2.6
24	e1.4	3.0	4.7	5.2	6.1	7.8	15	67	11	4.3	2.9	2.8
25	e1.4	2.9	5.4	5.1	6.3	8.2	13	50	11	4.8	2.4	4.9
26	e1.3	3.2	5.3	5.1	6.4	14	74	44	11	3.9	2.1	2.2
27	e1.4	5.2	5.8	8.5	6.5	12	60	335	11	3.8	2.1	1.9
28	e1.5	4.9	7.4	9.7	5.4	9.3	28	143	11	3.2	1.9	2.0
29	e1.5	3.6	5.0	8.5	---	8.2	28	87	10	3.8	1.7	1.9
30	e1.6	e3.9	4.9	7.4	---	7.9	33	69	9.3	4.0	1.6	2.2
31	e1.6	---	2.9	8.1	---	7.6	---	58	---	7.3	2.3	---
TOTAL	51.7	82.0	122.5	186.9	280.7	326.1	578.7	4302	913.3	246.6	115.9	66.2
MEAN	1.67	2.73	3.95	6.03	10.0	10.5	19.3	139	30.4	7.95	3.74	2.21
MAX	4.0	5.4	7.4	11	28	36	74	786	98	32	11	4.9
MIN	1.2	1.6	1.4	2.5	5.3	4.5	6.1	43	9.3	3.2	1.6	1.1
AC-FT	103	163	243	371	557	647	1150	8530	1810	489	230	131

e Estimated

STATISTIC OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	1.67	2.73	3.95	6.03	10.0	10.5	19.3	139	30.4	7.95	3.74	2.21
MAX	1.67	2.73	3.95	6.03	10.0	10.5	19.3	139	30.4	7.95	3.74	2.21
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	1.67	2.73	3.95	6.03	10.0	10.5	19.3	139	30.4	7.95	3.74	2.21
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 199

ANNUAL TOTAL												
ANNUAL MEAN							19.9			7272.6		
HIGHEST ANNUAL MEAN										19.9		1995
LOWEST ANNUAL MEAN										19.9		1995
HIGHEST DAILY MEAN							786	May 8		786	May 8	1995
LOWEST DAILY MEAN							1.1	Sep 15		1.1	Sep 15	1995
ANNUAL SEVEN-DAY MINIMUM							1.4	Oct 22		1.3	Sep 27	1994
INSTANTANEOUS PEAK FLOW							1780	May 7		1780	May 7	1995
INSTANTANEOUS PEAK STAGE							12.06	May 7		12.06	May 7	1995
ANNUAL RUNOFF (AC-FT)							14430			14430		
10 PERCENT EXCEEDS							47			46		
50 PERCENT EXCEEDS							5.5			5.2		
90 PERCENT EXCEEDS							1.7			1.5		

PLATTE RIVER BASIN

06803170 MIDDLE CREEK AT SW 40 th ST. AT LINCOLN, NE

LOCATION.--Lat 40°48'21", long 096°46'41", in NW1/4 SW1/4, sec. 29, T. 10 N., R. 6 E., Lancaster County, Hydrologic Unit 10200203, on right downstream side of bridge.

DRAINAGE AREA.--94 mi².

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 1,150 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.8	5.5	5.1	e6.8	6.8	e7.4	9.4	55	72	8.4	5.1	1.4
2	4.4	5.4	5.4	e6.4	7.8	e6.8	8.9	46	60	8.3	4.4	2.4
3	4.9	5.3	5.4	e6.2	30	e6.6	8.6	60	49	8.2	4.5	1.9
4	4.6	5.8	5.3	e6.0	17	e7.0	8.0	161	64	15	4.1	1.6
5	4.8	5.9	6.0	e5.8	13	e6.6	7.9	83	77	14	4.3	1.7
6	5.4	7.0	e6.0	e6.6	12	e6.8	7.6	67	49	12	5.0	6.3
7	4.9	6.0	e5.0	e6.0	e9.4	e7.0	7.1	334	44	11	4.3	5.1
8	4.9	4.4	e6.5	e5.8	e9.0	e7.8	7.5	940	41	10	4.1	5.2
9	4.8	3.4	e6.0	e6.2	e8.6	e8.8	9.6	307	38	9.8	3.8	5.3
10	4.5	3.4	e6.4	e7.0	e9.0	9.8	13	218	35	9.5	3.8	5.4
11	4.5	3.5	e6.2	e8.2	e8.5	16	27	141	31	8.7	4.0	5.6
12	4.5	3.7	e5.4	e9.0	e7.8	15	22	106	28	8.4	3.6	6.2
13	4.6	3.9	e5.8	e9.8	e8.0	13	16	94	25	7.6	3.6	5.8
14	4.6	4.2	6.2	e9.0	e8.2	31	13	73	23	6.8	5.3	5.7
15	5.1	3.7	8.5	e8.4	e8.4	30	12	56	22	6.3	5.5	5.8
16	6.0	3.5	6.8	e9.2	e9.8	19	11	49	20	6.6	5.1	6.1
17	6.2	3.7	6.7	e11	e9.0	16	12	43	18	6.2	4.4	6.2
18	6.1	3.9	13	e12	8.3	15	14	121	16	6.3	4.0	6.7
19	5.8	3.9	6.6	e10	8.1	15	16	88	14	5.7	3.5	9.4
20	5.2	4.5	6.9	e11	8.3	15	41	62	13	5.6	3.5	8.7
21	5.0	15	7.4	e9.0	8.4	14	48	50	12	5.3	3.3	8.8
22	5.2	11	8.1	e8.0	8.3	13	25	43	12	5.3	3.5	8.6
23	5.2	5.0	8.1	e7.0	8.2	12	21	68	12	5.4	3.3	8.8
24	5.2	4.5	9.1	e6.0	7.9	11	19	67	11	4.7	3.2	8.8
25	5.5	4.1	7.7	e7.0	7.4	11	17	42	11	4.6	3.1	9.3
26	5.2	4.4	7.6	e7.2	7.6	13	21	36	11	4.5	2.9	9.2
27	5.4	7.1	7.6	e7.4	8.4	14	31	278	10	4.4	3.1	8.8
28	5.8	9.9	7.6	e6.8	8.6	14	21	210	10	4.7	2.7	9.3
29	5.7	6.2	7.3	e6.4	---	12	21	129	10	4.4	.92	9.7
30	5.6	5.5	7.1	e6.4	---	11	28	100	9.2	4.1	1.0	12
31	5.4	---	e6.8	e6.6	---	9.8	---	80	---	4.1	1.2	---
TOTAL	158.8	163.3	213.6	238.2	271.8	394.4	523.6	4207	847.2	225.9	114.12	195.8
MEAN	5.12	5.44	6.89	7.68	9.71	12.7	17.5	136	28.2	7.29	3.68	6.53
MAX	6.2	15	13	12	30	31	48	940	77	15	5.5	12
MIN	3.8	3.4	5.0	5.8	6.8	6.6	7.1	36	9.2	4.1	.92	1.4
AC-FT	315	324	424	472	539	782	1040	8340	1680	448	226	388

e Estimated

STATISTIC OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	5.12	5.44	6.89	7.68	9.71	12.7	17.5	136	28.2	7.29	3.68	6.53
MAX	5.12	5.44	6.89	7.68	9.71	12.7	17.5	136	28.2	7.29	3.68	6.53
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	5.12	5.44	6.89	7.68	9.71	12.7	17.5	136	28.2	7.29	3.68	6.53
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 199

ANNUAL TOTAL		7553.72	
ANNUAL MEAN	20.7	20.7	
HIGHEST ANNUAL MEAN		20.7	1995
LOWEST ANNUAL MEAN		20.7	1995
HIGHEST DAILY MEAN	940	940	May 8 1995
LOWEST DAILY MEAN	.92	.92	Aug 29 1995
ANNUAL SEVEN-DAY MINIMUM	1.5	1.5	Aug 29 1995
INSTANTANEOUS PEAK FLOW	1630	1630	May 7 1995
INSTANTANEOUS PEAK STAGE	10.37	10.37	May 7 1995
ANNUAL RUNOFF (AC-FT)	14980	14990	
10 PERCENT EXCEEDS	43	42	
50 PERCENT EXCEEDS	7.6	7.4	
90 PERCENT EXCEEDS	4.1	4.0	

PLATTE RIVER BASIN

137

06803500 SALT CREEK AT LINCOLN, NE

LOCATION.--Lat 40°50'49", long 96°40'54", in NW1/4SW1/4 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 mi².

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.

REMARKS.--Records good. Flood flow affected by several detention dams.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	87	138	93	162	118	171	376	1600	180	86	77
2	89	88	133	132	201	119	168	444	917	167	90	337
3	103	88	127	132	444	126	163	496	719	170	98	105
4	92	98	125	122	358	140	158	1380	748	701	105	91
5	100	103	122	119	247	135	153	1240	1260	559	153	87
6	115	100	117	117	212	121	150	794	786	275	151	96
7	108	101	101	122	196	107	147	1780	741	226	106	84
8	102	98	131	124	156	137	152	6820	726	205	83	75
9	93	93	133	127	203	135	193	3950	678	192	72	77
10	86	91	124	127	188	176	267	2640	577	184	69	75
11	71	90	119	139	142	200	354	e2000	513	177	64	80
12	60	89	120	157	142	210	318	e1500	467	161	63	112
13	60	89	119	168	167	263	255	e1200	434	148	62	86
14	62	86	120	188	159	562	218	e1000	398	131	301	86
15	63	88	123	174	153	505	207	e900	366	116	144	86
16	88	86	127	190	143	326	196	781	352	108	112	78
17	108	92	133	255	158	273	187	880	e320	101	101	70
18	125	109	128	208	163	252	230	1320	e300	90	91	76
19	121	100	136	184	158	233	231	1020	e280	139	88	146
20	117	123	139	160	158	228	376	757	e270	168	84	110
21	112	242	151	138	157	216	530	698	e250	135	92	109
22	106	246	156	152	156	199	391	643	e240	128	86	98
23	99	150	153	155	156	190	304	918	230	127	81	94
24	98	127	145	144	147	179	271	1030	224	115	78	91
25	95	121	137	136	140	177	254	677	216	121	80	97
26	91	120	136	139	130	306	317	586	212	113	75	97
27	88	174	145	201	132	267	423	2330	209	106	72	95
28	89	185	150	210	132	224	411	2890	223	100	73	93
29	91	176	143	182	---	196	335	1270	197	95	68	99
30	91	149	133	149	---	183	333	923	188	81	73	113
31	88	---	130	163	---	176	---	837	---	93	72	---
TOTAL	2897	3589	4094	4807	5060	6679	7863	44080	14641	5412	2973	3020
MEAN	93.5	120	132	155	181	215	262	1422	488	175	95.9	101
MAX	125	246	156	255	444	562	530	6820	1600	701	301	337
MIN	60	86	101	93	130	107	147	376	188	81	62	70
AC-FT	5750	7120	8120	9530	10040	13250	15600	87430	29040	10730	5900	5990

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	177	104	93.5	103	171	348	280	374	491	341	186	178
MAX	1621	304	349	350	577	1972	1383	1495	3061	3205	704	1075
(WY)	1974	1987	1987	1974	1958	1987	1987	1984	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL	83893	105115	
ANNUAL MEAN	230	288	237
HIGHEST ANNUAL MEAN			721
LOWEST ANNUAL MEAN			81.4
HIGHEST DAILY MEAN	3580	6820	22100
LOWEST DAILY MEAN	60	60	21
ANNUAL SEVEN-DAY MINIMUM	70	70	26
INSTANTANEOUS PEAK FLOW		8470	28400
INSTANTANEOUS PEAK STAGE		14.47	26.52
ANNUAL RUNOFF (AC-FT)	166400	208500	172000
10 PERCENT EXCEEDS	375	657	389
50 PERCENT EXCEEDS	150	144	92
90 PERCENT EXCEEDS	94	86	50

PLATTE RIVER BASIN

06803510 LITTLE SALT CREEK NEAR LINCOLN, NE

LOCATION.--Lat 40°53'36", long 96°40'52", in NW1/4 SW1/4 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 mi².

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.5	e4.7	7.8	7.7	14	e7.2	9.2	14	26	6.9	2.8	3.8
2	e3.6	e5.0	8.0	7.3	19	e7.6	9.0	11	20	7.1	2.9	4.8
3	e3.6	e4.8	7.4	6.8	69	e8.0	8.5	47	17	7.1	2.8	2.9
4	e7.0	e4.9	7.0	6.2	18	e8.2	8.1	72	18	10	2.8	2.7
5	e3.7	e5.0	6.7	5.8	12	e8.0	8.2	21	21	13	3.1	e2.6
6	e3.7	e5.0	6.3	6.7	e9.0	e7.4	8.0	14	19	8.3	1.3	e2.5
7	e3.8	e4.8	6.5	6.9	e8.0	e6.8	7.9	230	18	7.1	2.8	e2.5
8	e3.8	e4.8	6.5	6.7	e6.4	e6.6	9.4	328	18	6.6	2.4	e2.4
9	e3.8	e4.7	6.5	7.0	e7.0	e6.6	10	67	17	6.1	2.3	e2.4
10	e3.9	e4.7	6.5	7.3	e8.0	e6.8	21	67	15	6.3	2.5	e2.4
11	e3.9	e4.7	6.3	7.1	e7.0	e13	25	29	14	6.2	2.3	e2.4
12	e3.9	e4.8	6.2	8.4	e6.4	18	16	23	13	5.5	2.0	e2.4
13	e3.9	e4.8	6.2	11	e6.2	25	12	23	12	5.6	1.8	e2.5
14	e4.0	e4.9	6.3	8.4	e6.2	49	11	16	12	5.4	1.6	e2.5
15	e4.2	e5.0	6.6	7.8	e6.2	23	9.9	14	11	5.1	1.8	e2.5
16	e4.4	e5.2	7.1	9.4	e6.2	17	8.7	14	11	5.2	2.1	e2.4
17	e5.0	e5.4	8.0	13	e6.6	14	9.0	17	10	4.8	2.4	e2.4
18	e5.8	e5.6	8.0	8.3	e7.0	14	21	50	9.9	4.6	2.2	e2.4
19	e5.6	e5.8	7.0	7.3	e7.9	13	12	18	9.6	5.0	2.8	e2.4
20	e4.5	e5.8	8.2	7.0	e7.6	12	88	14	9.8	5.2	3.1	e2.4
21	e4.0	e6.0	8.7	6.2	e8.0	11	33	13	9.0	5.2	3.4	e2.3
22	e3.9	e25	9.0	6.2	e8.8	11	15	13	8.7	e5.0	3.7	e2.3
23	e3.8	e15	8.5	6.3	e8.4	11	11	17	8.6	e4.8	3.4	e2.3
24	e3.8	e10	7.8	6.7	e8.4	10	9.6	16	8.4	4.5	3.3	e2.4
25	e3.9	e9.0	8.1	6.7	e9.0	10	8.5	13	8.6	5.0	3.0	e2.4
26	e3.9	e7.0	8.3	7.0	e8.0	20	30	13	8.4	4.2	3.3	e2.4
27	e4.0	e8.2	8.5	11	e7.4	14	23	214	8.2	4.3	3.4	e2.5
28	e4.0	e7.8	8.1	11	e7.0	11	11	52	8.3	4.0	3.4	e2.6
29	e4.2	e7.4	7.6	9.1	---	10	9.3	23	7.5	e3.7	2.8	e2.9
30	e4.4	7.3	7.4	9.3	---	9.8	8.7	18	6.9	e3.5	2.5	e3.2
31	e4.5	---	7.9	12	---	9.5	---	20	---	e3.2	3.0	---
TOTAL	130.00	203.1	229.0	247.6	302.7	398.5	471.0	1501	383.9	178.50	83.0	78.6
MEAN	4.19	6.77	7.39	7.99	10.8	12.9	15.7	48.4	12.8	5.76	2.68	2.62
MAX	7.0	25	9.0	13	69	49	88	328	26	13	3.7	4.8
MIN	3.5	4.7	6.2	5.8	6.2	6.6	7.9	11	6.9	3.2	1.3	2.3
AC-FT	258	403	454	491	600	790	934	2980	761	354	165	156

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

	MEAN	10.9	7.23	6.51	7.39	12.6	28.5	18.1	21.0	22.8	29.5	12.5	11.1
MAX	87.5	20.5	16.8	25.3	42.3	134	68.6	82.7	180	379	110	87.2	
(WY)	1987	1973	1987	1973	1971	1979	1987	1984	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1969 - 1995

ANNUAL TOTAL	4538.20	4206.90	
ANNUAL MEAN	12.4	11.5	15.8
MEDIAN OF ANNUAL MEANS			12.3
HIGHEST ANNUAL MEAN			51.7
LOWEST ANNUAL MEAN			3.59
HIGHEST DAILY MEAN	576	Jun 23	5020
LOWEST DAILY MEAN	2.8	Sep 10	.20
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 6	.28
INSTANTANEOUS PEAK FLOW			8480
INSTANTANEOUS PEAK STAGE			20.58
ANNUAL RUNOFF (AC-FT)	9000	8340	11480
10 PERCENT EXCEEDS	18	18	20
50 PERCENT EXCEEDS	7.2	7.1	5.6
90 PERCENT EXCEEDS	3.6	2.6	2.2

PLATTE RIVER BASIN

139

06803513 SALT CREEK AT 70th STREET AT LINCOLN, NE

LOCATION.--Lat 40°53'10", long 96°37'26", in SW1/4 SW1/4 sec. 27, T.11 N., R.7 W., Lancaster County, Hydrologic Unit 10200203, on left bank downstream from bridge.

DRAINAGE AREA.--753 mi².

PERIOD OF RECORD.--August 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above sea level.

REMARKS.-- Record good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	102	134	109	176	155	191	598	1770	229	93	92
2	97	104	128	134	200	153	187	624	1050	219	91	446
3	119	103	121	135	617	160	180	943	796	214	94	128
4	97	139	117	121	431	173	176	2450	824	829	98	107
5	139	112	119	115	274	170	173	1360	1470	853	106	104
6	133	107	115	114	237	166	170	910	901	328	262	106
7	119	107	97	128	219	142	168	2640	877	262	132	99
8	108	100	134	117	181	171	184	7560	879	230	118	92
9	99	94	135	123	222	177	262	4520	789	205	103	89
10	98	93	123	124	208	226	503	2830	719	192	99	85
11	92	92	116	140	171	252	459	1850	606	181	95	87
12	86	91	116	167	164	256	357	1440	539	167	91	115
13	85	90	114	176	181	350	285	1470	529	159	84	86
14	85	93	116	182	179	790	252	1210	484	151	352	81
15	105	92	117	173	173	615	236	968	405	141	183	81
16	123	94	123	187	163	370	226	863	384	139	127	74
17	147	103	131	243	172	305	213	962	364	137	116	66
18	126	111	132	202	176	282	328	1480	340	130	110	70
19	124	99	139	184	173	258	259	1140	324	153	101	146
20	115	213	149	162	174	254	784	819	309	206	92	112
21	111	378	165	138	173	237	812	743	295	127	103	112
22	105	236	162	146	170	221	439	690	284	121	100	101
23	103	151	156	151	171	211	335	1020	272	121	99	96
24	107	127	147	140	172	202	296	1160	266	115	89	92
25	106	121	142	134	164	201	280	747	259	122	83	95
26	104	119	139	130	159	458	633	648	260	113	76	98
27	103	260	147	193	165	288	763	2850	255	111	85	94
28	105	200	153	195	165	244	460	3050	269	104	87	92
29	105	161	148	182	---	220	376	1410	244	97	87	101
30	101	141	138	151	---	207	379	1040	236	81	84	113
31	101	---	137	174	---	198	---	957	---	89	88	---
TOTAL	3342	4033	4110	4770	5830	8112	10366	50952	16999	6326	3528	3260
MEAN	108	134	133	154	208	262	346	1644	567	204	114	143
MAX	147	378	165	243	617	790	812	7560	1770	853	352	446
MIN	85	90	97	109	159	142	168	598	236	81	76	66
AC-FT	6630	8000	8150	9460	11560	16090	20560	101100	33720	12550	7000	6470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	108	134	133	154	208	262	346	1644	567	204	114	143
MAX	108	134	133	154	208	262	346	1644	567	204	114	178
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994
MIN	108	134	133	154	208	262	346	1644	567	204	114	109
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	121628		
ANNUAL MEAN	333		
HIGHEST ANNUAL MEAN		333	1995
LOWEST ANNUAL MEAN		333	1995
HIGHEST DAILY MEAN	7560	May 8	May 8 1995
LOWEST DAILY MEAN	66	Sep 17	Sep 17 1995
ANNUAL SEVEN-DAY MINIMUM	82	Sep 12	Sep 12 1995
INSTANTANEOUS PEAK FLOW	9770	May 8	May 8 1995
INSTANTANEOUS PEAK STAGE	18.87	May 8	May 8 1995
ANNUAL RUNOFF (AC-FT)	241200		241400
10 PERCENT EXCEEDS	792		745
50 PERCENT EXCEEDS	161		155
90 PERCENT EXCEEDS	93		94

PLATTE RIVER BASIN

06803520 STEVENS CREEK NEAR LINCOLN, NE

LOCATION.--Lat 40°51'25", long 96°35'42", in NW1/4 NE1/4 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 mi².

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,125.57 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.8	4.9	5.6	11	10	9.3	29	e120	7.4	2.3	2.0
2	4.4	3.9	4.9	5.1	12	10	8.6	24	e90	54	3.3	3.5
3	4.9	3.9	4.9	e5.1	61	11	8.5	100	e36	360	3.7	3.5
4	4.5	3.9	4.8	5.0	20	9.8	8.3	300	e30	25	3.7	2.3
5	4.5	4.2	5.0	5.0	15	9.7	9.1	54	e26	11	3.3	2.2
6	4.5	4.0	e4.7	5.9	14	8.5	7.2	36	23	10	5.0	2.1
7	4.7	3.6	e4.5	7.3	12	9.7	7.6	560	22	8.8	3.9	e2.0
8	4.8	3.5	e4.4	7.2	12	11	8.4	3600	25	9.2	3.2	e1.9
9	4.7	4.0	e4.4	7.8	11	e11	9.8	860	34	54	2.9	e1.8
10	4.8	3.7	e4.4	9.3	12	e11	46	190	23	360	2.9	e1.8
11	4.6	3.5	e4.4	13	11	e12	54	50	22	15	2.8	e1.8
12	4.5	3.8	4.6	10	9.3	e24	24	39	19	13	2.6	e1.7
13	5.0	3.8	e4.7	10	9.1	e47	18	50	18	9.0	2.4	1.2
14	5.1	4.3	e4.7	e11	9.1	e100	17	30	4.2	6.8	2.6	1.1
15	4.9	3.9	e4.7	e12	9.0	64	16	52	3.2	e6.6	4.2	1.1
16	5.5	3.8	4.8	e11	9.5	26	16	38	16	e6.6	3.8	1.6
17	7.6	3.9	5.0	e10	9.1	21	16	30	15	e6.5	3.5	e1.4
18	9.2	4.2	5.0	e9.0	9.8	17	20	130	14	e6.4	3.3	1.2
19	7.1	4.2	4.8	e9.6	11	17	20	38	13	e6.3	2.7	e1.1
20	5.7	4.7	7.3	e10	10	15	114	27	12	e300	1.7	e1.2
21	5.4	12	7.1	10	10	14	50	24	12	e18	2.4	e1.2
22	5.2	7.4	8.2	9.9	10	13	24	29	11	e9.0	2.3	e1.3
23	5.8	5.2	7.5	9.3	9.9	12	20	150	10	e6.0	2.8	e1.4
24	5.9	4.8	6.7	9.1	8.7	11	21	48	9.8	e4.9	2.8	e1.5
25	6.3	4.6	6.3	9.3	8.6	12	19	29	10	e4.3	2.3	e1.6
26	6.0	4.7	6.6	9.0	9.9	25	41	27	10	e3.8	2.1	e1.7
27	6.0	5.2	7.5	11	9.5	16	49	600	10	e3.2	2.1	e1.8
28	6.0	6.2	7.4	12	8.7	13	145	e150	9.2	e2.8	2.0	e1.9
29	5.4	5.2	6.4	11	---	11	22	e33	8.4	3.4	1.9	e2.0
30	5.7	4.9	5.9	10	---	10	21	e30	7.8	3.3	1.8	2.3
31	4.3	---	5.4	10	---	10	---	e40	---	3.2	1.8	---
TOTAL	167.3	138.8	171.9	279.5	352.2	591.7	849.8	7397	663.6	1337.5	88.1	53.2
MEAN	5.40	4.63	5.55	9.02	12.6	19.1	28.3	239	22.1	43.1	2.84	1.77
MAX	9.2	12	8.2	13	61	100	145	3600	120	360	5.0	3.5
MIN	4.3	3.5	4.4	5.0	8.6	8.5	7.2	24	3.2	2.8	1.7	1.1
AC-FT	332	275	341	554	699	1170	1690	14670	1320	2650	175	106

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

MEAN	15.2	5.72	6.35	7.47	13.6	33.7	25.0	36.6	30.1	34.6	12.6	18.8
MAX	151	25.0	30.7	34.9	59.9	192	118	239	228	402	89.6	260
(WY)	1974	1987	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1969 - 1995

ANNUAL TOTAL	5141.0	12090.6	
ANNUAL MEAN	14.1	33.1	20.0
MEDIAN OF ANNUAL MEANS			17.9
HIGHEST ANNUAL MEAN			69.3
LOWEST ANNUAL MEAN			1.84
HIGHEST DAILY MEAN	975 Jun 5	3600 May 8	4810 Sep 8 1989
LOWEST DAILY MEAN	1.6 Sep 20	1.1 Sep 14	.00 Jul 31 1977
ANNUAL SEVEN-DAY MINIMUM	1.8 Sep 14	1.2 Sep 13	.00 Jul 29 1977
INSTANTANEOUS PEAK FLOW (STAGE)		5670 May 8	12900 (19.42) Sep 8 1989
INSTANTANEOUS PEAK STAGE		17.07 May 8	19.57 Jun 13 1984
ANNUAL RUNOFF (AC-FT)	10200	23980	14510
10 PERCENT EXCEEDS	15	38	25
50 PERCENT EXCEEDS	7.1	8.4	3.7
90 PERCENT EXCEEDS	3.6	2.3	.79

PLATTE RIVER BASIN

141

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE

LOCATION.--Lat 40°54'18", long 96°35'09", in NW1/4 SW1/4 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 mi².

PERIOD OF RECORD.--Water years 1971-1992, January 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. (FT ³ /S) (00061)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 μ M-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	
OCT	19...	1030	147	5650	7.9	13.5	7.3	2100	1500	350	98	26
NOV	22...	0845	273	2590	8.5	5.0	11.9	--	--	280	81	20
DEC	20...	1530	165	4760	7.9	4.0	10.3	4400	1700	310	86	24
JAN	25...	1345	164	5010	8.0	1.5	12.8	15000	1100	340	93	27
FEB	22...	1330	179	4490	7.4	10.5	11.4	K710	1400	330	89	26
MAR	07...	0900	134	5770	9.7	1.5	5.4	8000	1900	370	100	30
APR	13...	1500	342	2910	7.3	12.0	11.0	1400	92	300	81	23
MAY	30...	1340	1180	1240	7.0	18.5	8.7	9000	1800	230	65	17
JUN	15...	1400	430	2620	7.9	25.0	8.5	240	130	320	87	24
JUL	10...	1300	221	4410	7.8	27.5	9.7	1300	330	340	88	28
AUG	25...	1330	111	6670	7.9	29.0	11.7	490	380	350	88	32
	30...	1550	112	7240	--	26.0	8.9	--	340	85	32	
SEP	27...	1400	124	6640	8.0	21.0	8.9	K160	96	370	94	33

DATE	SODIUM DIS- SOLVED (MG/L AS NA) (00930)	SODIUM ADSORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₃) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
OCT											
19...	1100	26	15	530	250	1500	0.70	25	3350	4.56	--
NOV											
22...	400	10	11	281	130	550	0.50	22	1390	1.89	--
DEC											
20...	840	21	2.2	265	210	1200	0.50	20	2560	3.48	--
JAN											
25...	850	20	12	295	230	1300	0.80	22	2730	3.71	--
FEB											
22...	830	20	12	282	200	1200	0.60	20	2560	3.48	--
MAR											
07...	1100	25	14	300	250	1500	0.80	25	3220	4.39	--
APR											
13...	500	13	11	273	150	720	0.50	16	1680	2.28	--
MAY											
30...	160	5	8.4	219	72	220	0.40	12	686	0.93	--
JUN											
15...	500	12	9.2	285	140	720	0.50	17	1680	2.28	--
JUL											
10...	790	19	11	292	200	1100	0.60	20	2430	3.30	--
AUG											
25...	1300	30	15	287	320	1900	1.0	21	3870	5.26	--
30...	1400	33	16	289	330	2000	--	--	4050	5.81	1290
SEP											
27...	1300	29	16	300	320	2000	0.70	20	3980	5.41	--

PLATTE RIVER BASIN

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 19...	1.98	1.98	0.320	2.30	2.30	0.80	3.1	5.4	1.90	1.70
NOV 22...	1.34	1.34	0.160	1.50	0.880	0.82	1.7	3.2	0.930	0.710
DEC 20...	2.27	2.27	0.130	2.40	1.30	0.80	2.1	4.5	0.760	0.520
JAN 25...	2.68	2.68	0.120	2.80	3.10	0.90	4.0	6.8	1.20	1.10
FEB 22...	2.08	2.08	0.120	2.20	2.00	0.90	2.9	5.1	1.30	1.10
MAR 07...	3.43	3.43	0.170	3.60	3.70	0.70	4.4	8.0	1.70	1.40
APR 13...	2.02	2.02	0.080	2.10	0.470	1.0	1.5	3.6	0.640	0.480
MAY 30...	--	--	--	--	--	--	--	--	--	--
JUN 15...	2.01	2.01	0.090	2.10	0.190	0.71	0.90	3.0	0.490	0.430
JUL 10...	2.75	2.75	0.150	2.90	0.900	0.80	1.7	4.6	0.620	0.580
AUG 25...	3.21	3.21	0.490	3.70	1.60	2.1	3.7	7.4	1.20	1.10
AUG 30...	3.10	--	--	3.10	1.70	1.4	3.1	6.2	1.20	--
SEP 27...	1.52	1.52	0.480	2.00	3.40	1.3	4.7	6.7	2.00	1.50

DATE	ARSENIC TOTAL (μ G/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (μ G/L AS BA) (01007)	CADMIUM TOTAL RECOV- ERABLE (μ G/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (μ G/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (μ G/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (μ G/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (μ G/L AS PB) (01051)
OCT 19...	--	--	--	--	--	--	--
NOV 22...	5	100	<1	3	4	2300	3
DEC 20...	--	--	--	--	--	--	--
JAN 25...	3	100	<1	2	2	330	2
FEB 22...	4	100	<1	<1	6	750	<4
MAR 07...	--	--	--	--	--	--	--
APR 13...	--	--	--	--	--	--	--
MAY 30...	7	300	<1	6	9	3600	8
JUN 15...	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--
AUG 25...	7	100	<1	<1	4	150	2
AUG 30...	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--

PLATTE RIVER BASIN

143

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (µ G/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (µ G/L AS HG) (71900)	SELE- NIUM, TOTAL (µ G/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (µ G/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (µ G/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (µ G/L AS C) (00680)
OCT 19...	--	--	--	--	--	8.4
NOV 22...	570	--	1	<1	30	14
DEC 20...	--	--	--	--	--	6.9
JAN 25...	320	<0.10	2	<1	20	8.3
FEB 22...	320	<0.10	2	<1	<10	8.3
MAR 07...	--	--	--	--	--	14
APR 13...	--	--	--	--	--	9.2
MAY 30...	400	<0.10	2	<1	20	13
JUN 15...	--	--	--	--	--	7.7
JUL 10...	--	--	--	--	--	6.9
AUG 25...	270	--	2	<1	10	9.2
SEP 30...	--	--	--	--	--	15
SEP 27...	--	--	--	--	--	8.3

PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NE

LOCATION.--Lat 41°00'56", long 96°32'39", in NE1/4 NE1/4 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 mi².

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 1,112.18 ft above sea level. Apr. 1970, to Feb. 6, 1980, at present site and datum 3.0 ft higher; Feb 7, 1980, to July 13, 1981, at present site and present datum; July 14, 1981, to Feb. 29, 1984, on left bank 30 ft downstream from bridge at present datum; Mar. 1, 1984, to May 28, 1984, wire weight gage only, at present datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	10	13	e12	36	15	20	62	78	18	11	7.5
2	9.9	11	14	e12	88	e12	20	52	55	18	10	7.4
3	11	11	14	e11	424	e12	20	178	45	18	9.6	7.6
4	10	11	13	e10	104	e11	19	313	54	27	9.7	7.5
5	10	11	13	e9.7	30	e10	19	99	65	85	10	7.5
6	11	11	10	e9.8	22	e9.8	20	65	50	25	61	7.4
7	14	11	14	e11	24	e8.8	20	456	87	20	15	7.3
8	11	10	14	e12	24	e9.0	21	815	75	18	10	7.3
9	9.4	10	13	e12	18	e10	24	236	66	18	9.6	7.2
10	9.4	10	13	e13	18	24	52	180	46	17	9.1	7.0
11	9.5	10	12	16	18	82	102	98	39	17	8.9	7.0
12	9.0	11	13	17	14	67	58	75	33	16	8.1	7.3
13	9.3	11	13	21	e11	55	36	73	31	15	7.7	7.3
14	9.4	11	12	20	e10	145	32	56	30	14	7.6	6.9
15	9.7	10	13	18	e10	69	30	47	28	14	7.8	6.6
16	11	10	14	22	13	35	28	80	27	14	9.0	7.1
17	12	11	14	51	14	26	28	99	25	14	8.4	7.2
18	13	12	14	36	16	24	53	70	24	14	7.5	6.8
19	11	11	14	20	19	23	43	49	23	13	7.1	9.7
20	10	12	15	16	18	22	255	42	23	13	6.7	10
21	10	69	16	17	20	12	127	39	22	12	6.8	8.6
22	9.9	29	19	15	19	19	49	38	22	12	7.1	8.0
23	9.6	14	19	14	19	19	38	48	21	11	7.8	7.7
24	9.7	13	16	14	16	19	34	52	20	11	7.8	7.6
25	9.6	12	15	13	16	19	33	40	20	11	6.8	7.7
26	9.8	12	17	14	16	37	134	37	22	11	6.9	7.7
27	10	56	23	34	16	29	110	518	21	11	7.0	7.7
28	12	58	22	55	16	22	47	311	21	10	6.6	7.6
29	11	17	17	26	---	21	39	80	20	9.9	6.4	8.7
30	10	14	16	17	---	20	39	55	19	9.7	6.2	11
31	10	---	14	18	---	20	---	49	---	9.7	6.3	---
TOTAL	320.7	509	459	586.5	1069	906.6	1550	4412	1112	526.3	309.5	231.9
MEAN	10.3	17.0	14.8	18.9	38.2	29.2	51.7	142	37.1	17.0	9.98	7.73
MAX	14	69	23	55	424	145	255	815	87	85	61	11
MIN	9.0	10	10	9.7	10	8.8	19	37	19	9.7	6.2	6.6
AC-FT	636	1010	910	1160	2120	1800	3070	8750	2210	1040	614	460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	MEAN	25.2	15.9	15.1	15.9	34.4	62.9	44.5	56.6	59.0	60.7	52.7	26.2
	MAX	191	45.5	44.8	63.3	116	260	236	145	239	648	527	128
	(WY)	1987	1978	1985	1973	1983	1979	1984	1972	1982	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1971 - 1995

ANNUAL TOTAL	14262.1	11992.5	
ANNUAL MEAN	39.1	32.9	
MEDIAN OF ANNUAL MEANS			39.2
HIGHEST ANNUAL MEAN			30.6
LOWEST ANNUAL MEAN			123
HIGHEST DAILY MEAN	2880 Jun 23	815 May 8	8.68
LOWEST DAILY MEAN	9.0 Oct 12	6.2 Aug 30	11400 Aug 25 1987
ANNUAL SEVEN-DAY MINIMUM	9.4 Oct 9	6.6 Aug 25	.25 Jul 13 1976
INSTANTANEOUS PEAK FLOW		1600 May 7	1.1 Jul 11 1976
INSTANTANEOUS PEAK STAGE		9.13 May 7	*23300 Aug 25 1987
ANNUAL RUNOFF (AC-FT)	28290	23790	19.60 Aug 25 1987
10 PERCENT EXCEEDS	38	63	28370
50 PERCENT EXCEEDS	15	15	47
90 PERCENT EXCEEDS	10	7.7	12
			5.8

e Estimated

* From floodmark; includes road overflow.

PLATTE RIVER BASIN

145

06803555 SALT CREEK AT GREENWOOD, NE

LOCATION.--Lat 40°57'56", long 96°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 mi².

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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	125	172	e165	225	178	229	721	2140	250	167	139
2	124	142	180	e160	253	178	222	855	1520	239	159	425
3	143	132	179	e155	1560	178	216	1120	1110	234	160	203
4	136	127	179	e150	762	177	211	3810	998	908	164	161
5	132	129	175	e145	410	178	203	2170	1730	1570	162	149
6	162	134	175	e140	331	177	193	1300	1230	468	379	147
7	153	156	e170	e145	e165	e160	198	3080	1130	332	209	151
8	142	147	e165	e145	e150	e150	207	10400	1480	292	195	147
9	134	136	e160	e150	e170	e180	293	7330	1040	271	177	142
10	129	135	e155	e155	262	234	553	4090	829	258	168	142
11	128	138	e150	e160	238	347	804	2660	718	248	163	141
12	121	142	e140	e165	206	343	573	1980	638	240	155	158
13	120	155	e150	e180	215	378	429	1960	591	228	147	152
14	119	147	e155	e190	213	1190	363	1690	545	218	312	138
15	128	145	e160	e220	210	936	337	1310	494	207	281	135
16	166	148	e165	e250	208	496	314	1180	458	198	194	135
17	164	155	e170	e300	200	386	300	1330	432	194	178	130
18	187	150	e180	e270	208	348	421	1960	409	193	166	130
19	174	149	e185	e240	207	317	384	1670	386	189	154	180
20	168	150	e190	e220	205	310	1210	1110	372	290	147	180
21	159	e480	e185	212	206	287	1470	996	353	207	145	172
22	126	e300	e180	215	202	269	667	905	336	191	162	160
23	112	e220	e175	212	198	256	491	1310	317	185	157	153
24	112	172	e170	198	191	245	433	1640	307	185	152	151
25	110	160	e180	192	182	238	395	1050	298	180	143	150
26	117	165	e190	190	179	476	815	853	302	184	137	150
27	131	e180	e195	243	180	384	1250	3650	293	180	134	152
28	142	e300	e200	299	181	306	724	4620	307	170	130	138
29	140	e190	e185	276	---	268	548	2050	280	166	131	143
30	121	e180	e175	235	---	250	537	1430	261	158	128	154
31	127	---	e170	204	---	238	---	1190	---	149	128	---
TOTAL	4251	5189	5360	6181	7917	10058	14990	71420	21304	8982	5384	4808
MEAN	137	173	173	199	283	324	500	2304	710	290	174	160
MAX	187	480	200	300	1560	1190	1470	10400	2140	1570	379	425
MIN	110	125	140	140	150	150	193	721	261	149	128	130
AC-FT	8430	10290	10630	12260	15700	19950	29730	141700	42260	17820	10680	9540

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

MEAN	261	158	141	156	263	532	411	531	687	528	322	266
MAX	2681	475	465	520	951	3481	2023	2370	4101	5461	1748	1534
(WY)	1974	1987	1987	1974	1983	1979	1984	1984	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1952 - 1995

ANNUAL TOTAL	126266	165844	
ANNUAL MEAN	346	454	
MEDIAN OF ANNUAL MEANS			353
HIGHEST ANNUAL MEAN			286
LOWEST ANNUAL MEAN			1054
HIGHEST DAILY MEAN	8360	Jun 23	107
LOWEST DAILY MEAN	110	Oct 25	37100
ANNUAL SEVEN-DAY MINIMUM	120	Sep 15	14
INSTANTANEOUS PEAK FLOW (STAGE)			17
INSTANTANEOUS PEAK STAGE			46800 (26.50)
ANNUAL RUNOFF (AC-FT)	250400		26.57
10 PERCENT EXCEEDS	524		255600
50 PERCENT EXCEEDS	209		568
90 PERCENT EXCEEDS	134		138

PLATTE RIVER BASIN

06803920 COTTONWOOD CREEK ABOVE CZECHLAND LAKE NEAR RESCUE, NE

LOCATION.--Lat 41°20'11", long 96°50'16", in sec. 22, T.16 N., R.5 E., Saunders County, Hydrologic Unit 10200203, on left downstream bank. Gage is 1.5 mi north and 1.25 mi west of Prague.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1400 ft above sea level.

REMARKS.-- Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	.69	1.7	e1.0	5.4	.67	.76	2.9	15	1.1	.38	e.05
2	.96	.73	1.5	e.64	11	.95	.80	1.7	5.3	1.2	.41	e.05
3	.88	.74	1.3	e.52	11	.68	.74	2.9	3.8	1.2	.44	e.06
4	.83	.77	1.3	e.46	2.5	.67	.74	5.2	5.9	1.6	.42	.07
5	1.7	.76	1.2	e.58	2.0	.67	.75	2.7	4.0	1.5	.57	.08
6	.98	.75	1.1	e.56	1.9	.54	.59	2.5	3.2	1.5	.54	.10
7	.83	.52	1.3	e.60	1.7	.55	.60	12	4.0	1.3	.51	.09
8	.80	.51	1.4	e.70	1.6	.58	.64	13	4.2	1.2	.49	.09
9	.68	.58	1.3	e1.0	1.8	.55	.67	3.9	3.1	1.2	.44	.09
10	.71	.50	1.4	e1.0	1.6	1.2	.72	5.3	2.9	1.3	.54	.11
11	.72	.51	1.4	e1.4	1.3	1.2	.89	3.3	2.6	e1.0	.51	.12
12	.75	.52	1.4	e1.6	1.3	.82	.72	3.2	2.3	e.70	.57	.08
13	.85	.57	1.4	e1.8	1.3	1.1	.63	3.6	2.1	e.52	.60	.07
14	.97	.49	1.5	e1.7	1.3	1.4	.70	2.2	1.8	e.39	.76	.06
15	1.0	.40	1.5	e1.8	1.2	.96	.75	1.9	1.6	e.30	.98	.07
16	1.3	.37	1.6	e1.9	1.2	.86	1.0	1.8	1.4	e.26	1.1	.06
17	1.1	.56	1.7	e2.0	1.3	.78	.85	1.6	1.3	e.22	1.2	.05
18	.96	.55	1.7	e2.1	1.3	.84	1.8	1.4	1.3	e.18	1.2	.03
19	.83	.54	1.8	2.0	1.2	.78	.89	1.3	1.1	e.16	1.5	.23
20	.84	8.3	1.8	1.9	1.1	.75	12	1.2	1.1	e.13	1.9	.21
21	.70	15	e1.8	1.7	1.1	.75	2.3	1.1	1.1	e.12	2.1	.27
22	.80	.89	e1.7	1.7	1.1	.87	1.6	1.2	1.1	e.10	2.5	.36
23	.67	.80	e1.6	1.7	.94	.87	1.4	2.2	1.0	e.09	.92	.29
24	.64	.80	e1.6	1.6	.88	.82	1.2	1.5	.98	e.08	.90	.21
25	.65	.71	e1.6	1.6	.88	.86	1.3	1.2	1.1	e.07	.73	.32
26	.71	.76	e1.7	1.6	.84	.99	1.6	1.4	1.2	e.07	e.80	.36
27	.69	40	e1.8	7.4	.78	.81	1.2	40	1.1	e.07	e.53	.34
28	.64	2.4	e1.9	2.9	.69	.72	1.1	6.7	1.0	.16	e.50	.27
29	.64	1.7	e1.8	1.8	---	.68	1.1	3.4	.97	.21	e.05	.21
30	.69	1.6	e1.6	1.9	---	.67	1.4	2.9	.96	.26	e.03	.27
31	.65	---	e1.5	9.8	---	.70	---	37	---	.36	e.04	---
TOTAL	25.86	84.02	47.9	58.96	60.21	25.29	41.44	172.2	78.51	18.55	24.16	4.67
MEAN	.83	2.80	1.55	1.90	2.15	.82	1.38	5.55	2.62	.60	.78	.16
MAX	1.7	40	1.9	9.8	11	1.4	12	40	15	1.6	2.5	.36
MIN	.64	.37	1.1	.46	.69	.54	.59	1.1	.96	.07	.03	.03
AC-FT	51	167	95	117	119	50	82	342	156	37	48	9.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	.83	2.80	1.55	1.90	2.15	.82	1.38	5.55	2.62	2.83	.52	.91
MAX	.83	2.80	1.55	1.90	2.15	.82	1.38	5.55	2.62	5.05	.78	1.67
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995	1994
MIN	.83	2.80	1.55	1.90	2.15	.82	1.38	5.55	2.62	.60	.27	.16
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	641.77		
ANNUAL MEAN		1.76	1.76
HIGHEST ANNUAL MEAN		1.76	1995
LOWEST ANNUAL MEAN		1.76	1995
HIGHEST DAILY MEAN	40	Nov 27	83
LOWEST DAILY MEAN	.03	Aug 30	.03
ANNUAL SEVEN-DAY MINIMUM	.05	Aug 29	.05
INSTANTANEOUS PEAK FLOW	153	Nov 27	153
INSTANTANEOUS PEAK STAGE	3.93	Nov 17	3.93
ANNUAL RUNOFF (AC-FT)	1270		1270
10 PERCENT EXCEEDS	2.6		2.5
50 PERCENT EXCEEDS	.98		.84
90 PERCENT EXCEEDS	.22		.21

e Estimated.

PLATTE RIVER BASIN

147

06803935 COTTONWOOD CREEK TRIBUTARY ABOVE DAM 6B NEAR PRAGUE, NE

LOCATION.--Lat 41°19'19", long 96°51'16", in sec. 28, T.16 N., R. 5 E., Saunders County, Hydrologic Unit 10200203, on left downstream side of the bridge, 0.5 mi north and 2.2 mi west of Prague.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1410 ft above sea level.

REMARKS.-- Records fair except those for estimated record which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.25	.26	e.30	e1.5	e.78	.86	1.1	5.0	1.3	.46	.27
2	.21	.26	.25	e.33	e2.0	e.70	.83	.99	4.7	1.3	.45	.27
3	.18	.26	.24	e.33	e1.7	e.74	.82	1.1	4.6	1.3	.43	.27
4	.18	.27	.24	e.31	e.92	e.78	.84	1.2	5.4	1.3	.42	.26
5	.22	.27	.26	e.30	e.80	e.80	.87	1.1	5.0	1.2	.52	.25
6	.20	.26	.31	e.25	e.74	e.78	.87	1.1	4.9	1.1	.60	.25
7	.18	.26	.68	e.20	e.70	e.76	.86	1.2	5.2	1.0	.58	.25
8	.18	.26	.26	e.17	e.68	e.60	.89	1.0	4.5	1.0	.47	.25
9	.18	.26	.28	e.17	e.64	e.70	.94	1.6	2.6	1.0	.40	.24
10	.18	.26	.23	e.17	e.62	e.90	.96	2.1	2.0	.97	.40	.22
11	.18	.27	.41	e.16	e.60	1.1	1.0	1.9	2.0	.92	.37	.23
12	.18	.26	.48	e.15	e.60	1.0	1.0	2.0	2.0	.87	.34	.24
13	.19	.26	.57	e.14	e.60	1.1	.97	2.7	2.0	.84	.33	.22
14	.19	.25	.45	e.15	e.58	1.2	.94	2.8	1.9	.82	.36	.21
15	.22	.25	.30	e.16	e.58	1.1	.95	3.0	1.8	.75	.40	.20
16	.22	.25	.22	e.21	e.60	.98	.94	2.8	1.8	.74	.40	.20
17	.21	.27	.21	e.25	e.62	.95	.98	2.4	1.6	.71	.35	.20
18	.21	.25	.21	e.28	e.64	.98	1.0	2.3	1.6	.71	.33	.20
19	.20	.25	.22	e.30	e.68	.96	1.1	2.2	1.6	.69	.31	.41
20	.20	.63	.22	e.31	e.82	.90	1.1	2.2	1.5	.70	.37	.29
21	.20	.69	.22	e.31	e.84	.89	1.5	2.2	1.5	.69	.35	.27
22	.21	.29	.22	e.30	e.85	.89	1.1	2.2	1.4	.70	.55	.25
23	.21	.28	.22	e.29	e.84	.87	1.0	2.5	1.4	.65	.39	.25
24	.23	.28	.26	e.29	e.83	.84	.99	2.2	1.4	.65	.36	.23
25	.24	.26	.21	e.32	e.82	.86	.97	2.1	1.4	.63	.33	.22
26	.24	.27	.23	e.34	e.82	.92	1.0	2.1	1.5	.54	.32	.22
27	.25	1.4	.23	e.38	e.80	.92	1.0	5.3	1.4	.48	.31	.21
28	.25	.29	.21	e.33	e.78	.87	.98	2.4	1.4	.44	.29	.22
29	.24	.32	.20	e.33	---	.86	.97	2.3	1.3	.42	.29	.23
30	.24	.26	.21	e.45	---	.86	.98	2.5	1.3	.40	.28	.25
31	.24	---	e.23	e.85	---	.87	---	6.5	---	.48	.27	---
TOTAL	6.43	9.89	8.74	8.83	23.20	27.46	29.21	69.09	75.7	25.30	12.03	7.28
MEAN	.21	.33	.28	.28	.83	.89	.97	2.23	2.52	.82	.39	.24
MAX	.25	1.4	.68	.85	2.0	1.2	1.5	6.5	5.4	1.3	.60	.41
MIN	.17	.25	.20	.14	.58	.60	.82	.99	1.3	.40	.27	.20
AC-FT	13	20	17	18	46	54	58	137	150	50	24	14

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	.21	.33	.28	.28	.83	.89	.97	2.23	2.52	1.58	.27	.35
MAX	.21	.33	.28	.28	.83	.89	.97	2.23	2.52	2.34	.39	.46
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995	1994
MIN	.21	.33	.28	.28	.83	.89	.97	2.23	2.52	.82	.15	.24
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL		303.16	
ANNUAL MEAN	.83	.83	
HIGHEST ANNUAL MEAN	.83	.83	1995
LOWEST ANNUAL MEAN	.83	.83	1995
HIGHEST DAILY MEAN	6.5	30	Jul 6 1994
LOWEST DAILY MEAN	.14	.04	Jan 13 1994
ANNUAL SEVEN-DAY MINIMUM	.16	.09	Jan 9 1994
INSTANTANEOUS PEAK FLOW	26	26	May 31 1995
INSTANTANEOUS PEAK STAGE	7.29	7.29	May 31 1995
ANNUAL RUNOFF (AC-FT)	601	602	
10 PERCENT EXCEEDS	1.9	1.8	
50 PERCENT EXCEEDS	.57	.42	
90 PERCENT EXCEEDS	.21	.18	

PLATTE RIVER BASIN

06804000 WAHOO CREEK AT ITHACA, NE

LOCATION.--Lat 41°08'40", long 96°32'10", in NW1/4 NW1/4 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 mi², of which 268 mi² 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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	43	69	e45	165	48	69	145	608	80	48	36
2	39	43	68	e37	209	e50	68	165	298	80	51	38
3	50	44	62	e34	634	e54	66	158	218	82	48	38
4	47	44	57	e32	339	57	64	368	209	89	47	36
5	41	44	53	e35	124	59	63	286	297	101	47	35
6	50	44	e48	e38	94	e60	63	191	227	88	62	34
7	67	43	e42	e34	78	e57	64	245	236	79	51	35
8	45	43	e43	e33	69	e57	65	1330	243	76	45	35
9	40	43	e45	e30	e64	e62	103	496	192	75	44	34
10	39	43	e41	e37	e60	66	117	399	174	72	41	34
11	39	43	e39	e44	e57	122	176	312	157	70	40	33
12	39	43	e40	e50	e56	211	142	249	142	68	41	33
13	39	43	e43	59	e55	125	107	236	134	64	41	34
14	39	43	e45	67	e53	162	96	209	129	61	40	33
15	39	44	e48	65	e53	148	92	176	123	59	40	32
16	43	44	e49	61	54	106	88	197	117	59	42	31
17	55	44	51	78	61	92	89	416	110	59	43	31
18	53	44	50	83	66	89	118	169	104	57	42	30
19	50	45	48	66	73	88	150	149	100	54	39	52
20	44	46	48	61	73	85	221	143	96	54	38	68
21	42	254	48	52	71	79	471	137	95	55	40	44
22	43	188	49	e54	71	76	178	132	92	54	61	40
23	42	72	51	e50	69	74	145	147	90	54	82	37
24	41	62	51	54	65	71	131	189	88	53	51	36
25	41	59	51	52	62	69	125	143	86	239	42	35
26	41	56	51	50	62	79	188	130	88	69	39	34
27	41	115	57	63	62	82	197	463	91	55	37	34
28	42	369	70	140	58	74	136	1730	89	50	37	33
29	43	97	66	104	---	70	123	333	86	47	35	35
30	43	73	59	64	---	69	121	220	81	45	35	50
31	43	---	e52	68	---	71	---	187	---	45	36	---
TOTAL	1357	2218	1594	1740	2957	2612	3836	9850	4800	2193	1385	1110
MEAN	43.8	73.9	51.4	56.1	106	84.3	128	318	160	70.7	44.7	37.0
MAX	67	369	70	140	634	211	471	1730	608	239	82	68
MIN	37	43	39	30	53	48	63	130	81	45	35	30
AC-FT	2690	4400	3160	3450	5870	5180	7610	19540	9520	4350	2750	2200

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

	MEAN	51.7	38.6	34.5	38.6	74.0	127	89.0	117	220	88.8	94.2	73.2
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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL	39904	35652	
ANNUAL MEAN	109	97.7	
MEDIAN OF ANNUAL MEANS			87.1
HIGHEST ANNUAL MEAN			77.1
LOWEST ANNUAL MEAN			207
HIGHEST DAILY MEAN	4640	1730	22100
LOWEST DAILY MEAN	31	30	3.3
ANNUAL SEVEN-DAY MINIMUM	34	32	4.4
INSTANTANEOUS PEAK FLOW		2620	77400
INSTANTANEOUS PEAK STAGE		16.97	22.93
ANNUAL RUNOFF (AC-FT)	79150	70720	63110
10 PERCENT EXCEEDS	139	190	112
50 PERCENT EXCEEDS	52	59	34
90 PERCENT EXCEEDS	39	37	17

PLATTE RIVER BASIN

149

06804700 WAHOO CREEK AT ASHLAND, NE

LOCATION.--Lat 41°03'13", long 96°22'04", in SE1/4NE1/4 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 mi².

PERIOD OF RECORD.--September, 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,067.58 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	60	86	e76	212	120	e110	e250	e900	e110	e76	e78
2	56	61	86	e64	287	e120	e105	e240	e1500	e105	e78	e80
3	62	60	84	e60	565	e115	e105	e350	e800	e110	e78	e86
4	72	61	81	e54	408	e120	e100	e500	e340	e110	e76	e84
5	61	62	78	e60	227	e115	e100	e370	e400	e140	e74	e82
6	63	62	e74	e54	179	e110	e105	e310	e480	e130	e80	e80
7	87	62	e72	e52	160	e110	e105	e600	e330	e120	e90	e80
8	70	61	e70	e48	196	e100	e110	e2000	e340	e110	e80	e80
9	60	61	e72	e50	160	e130	e140	e1100	e350	e105	e78	e80
10	58	60	e76	e56	150	166	e200	e700	e310	e100	e76	e78
11	57	61	e72	e62	e140	184	e250	e520	e290	e100	e76	e68
12	57	62	e66	e70	e140	278	e180	e450	e260	e95	e74	e66
13	57	64	e62	e86	e130	224	e140	e380	e240	e94	e70	e64
14	57	63	e60	e100	e120	262	e120	e320	e230	e92	e72	e62
15	58	61	e62	e90	e120	229	e125	e300	e200	e88	e74	e64
16	63	60	e64	e88	e130	185	e120	e350	e190	e86	e76	e62
17	72	61	e68	e94	e130	166	e115	e600	e180	e84	e76	e62
18	75	63	e70	e100	135	158	e140	e400	e160	e84	e76	e60
19	70	64	e82	e90	141	154	e200	e260	e150	e84	e74	e70
20	64	65	74	e76	141	148	e350	e220	e145	e82	e70	e110
21	61	109	74	e78	141	140	e700	e210	e140	e80	e72	e100
22	61	276	e72	e84	142	134	e500	e210	e135	e80	e90	e70
23	59	102	e72	e80	139	130	e250	e215	e130	e82	e150	e64
24	58	81	e74	e100	134	125	e230	e360	e125	e150	e100	e58
25	58	77	e78	e110	131	125	e200	e280	e120	e400	e74	e56
26	59	74	e80	e130	133	135	e250	e250	e130	e200	e68	e58
27	60	102	e86	150	132	133	e280	e900	e130	e100	e76	e56
28	61	300	e100	209	127	121	e250	e2500	e120	e78	e74	e56
29	63	147	e84	183	---	114	e220	e1100	e115	e74	e72	e56
30	60	95	e80	142	---	e110	e200	e600	e110	e70	e74	e54
31	59	---	e78	139	---	e110	---	e260	---	e74	e76	---
TOTAL	1934	2597	2337	2835	4950	4571	6000	17105	9050	3417	2450	2124
MEAN	62.4	86.6	75.4	91.5	177	147	200	552	302	110	79.0	70.8
MAX	87	300	100	209	565	278	700	2500	1500	400	150	110
MIN	56	60	60	48	120	100	100	210	110	70	68	54
AC-FT	3840	5150	4640	5620	9820	9070	11900	33930	17950	6780	4860	4210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	MEAN	56.2	64.0	57.7	60.7	87.0	201	115	182	411	359	97.5	63.8
	MAX	98.2	95.7	75.4	91.5	177	580	200	552	1031	1032	221	150
	(WY)	1994	1994	1995	1995	1995	1993	1995	1995	1991	1993	1993	1993
	MIN	36.0	42.5	40.1	40.4	42.8	57.3	64.4	71.4	55.9	110	39.5	28.0
	(WY)	1992	1991	1993	1993	1992	1992	1992	1994	1992	1995	1991	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1990 - 1995

ANNUAL TOTAL	47354	59370	
ANNUAL MEAN	130	163	
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			223
HIGHEST DAILY MEAN	2880	2500	7000
LOWEST DAILY MEAN	47	48	21
ANNUAL SEVEN-DAY MINIMUM	54	53	24
INSTANTANEOUS PEAK FLOW		*	7000
INSTANTANEOUS PEAK STAGE		*	20.50
ANNUAL RUNOFF AC-FT)	93930	117800	106600
10 PERCENT EXCEEDS	166	304	213
50 PERCENT EXCEEDS	75	100	68
90 PERCENT EXCEEDS	59	60	38

e Estimated.

* Not determined. Maximum peak probably occurred on May 28, with the instantaneous discharge greater than 2500 cfs (based on comparison with upstream station, 06804000, Wahoo Creek at Ithaca. Stage for this discharge is greater than 17.3 ft.

PLATTE RIVER BASIN

06804900 JOHNSON CREEK NEAR MEMPHIS, NE

LOCATION.--Lat 41°08'48", long 96°23'12", in NW1/4 NW1/4 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 mi².

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 good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.3	2.2	1.7	2.2	2.9	3.3	3.5	3.6	1.9	4.0	3.2
2	1.1	2.4	1.9	1.6	3.8	4.4	2.9	3.2	3.5	1.5	3.7	3.1
3	1.2	3.4	2.5	1.6	8.7	4.1	3.1	9.1	3.2	2.5	2.5	2.8
4	1.2	2.4	1.7	1.6	9.3	2.9	2.9	8.0	3.2	2.2	4.0	2.4
5	1.2	2.1	1.7	1.6	4.7	2.8	2.9	4.1	3.1	3.4	5.2	2.7
6	1.3	2.0	1.9	1.7	3.3	2.7	3.0	3.4	3.3	1.7	3.0	3.6
7	1.6	2.0	1.9	1.8	2.9	3.3	3.1	26	3.5	2.1	3.0	3.5
8	1.5	2.8	1.9	1.8	3.0	2.9	3.2	19	3.6	2.1	2.0	3.2
9	1.1	2.6	2.0	1.8	2.9	3.1	3.6	20	3.1	2.2	1.4	1.5
10	.81	2.5	1.9	1.7	2.9	3.9	8.0	11	2.9	2.0	1.9	2.8
11	.91	2.4	1.8	1.8	2.9	4.3	6.3	5.6	2.7	2.0	1.6	3.1
12	.78	2.5	1.9	1.9	3.0	4.7	4.1	4.4	2.5	1.4	1.7	2.9
13	.97	2.7	2.0	1.9	3.1	5.5	3.4	4.6	2.4	2.1	2.0	2.4
14	1.1	2.7	1.8	1.8	3.0	9.6	3.2	3.8	2.6	2.0	1.5	2.5
15	1.2	2.6	1.8	1.8	2.9	5.0	3.0	3.8	2.6	1.6	2.8	2.2
16	1.4	2.0	1.8	2.0	2.9	4.1	3.1	3.9	2.7	2.1	2.9	1.8
17	1.4	1.9	1.8	2.5	3.0	3.7	3.0	3.9	2.5	1.2	2.6	1.5
18	1.4	1.7	1.8	1.9	3.1	4.0	3.5	3.2	2.6	1.6	2.7	3.0
19	1.5	1.4	1.8	1.8	3.3	3.7	2.9	3.1	2.6	1.1	2.1	2.9
20	1.7	1.9	1.8	1.8	3.5	3.8	6.0	3.0	2.5	.95	1.5	3.3
21	1.5	3.2	2.0	1.7	2.9	3.5	3.8	3.1	2.4	.84	2.8	2.9
22	1.3	2.0	2.0	1.7	3.1	3.5	3.1	3.1	2.3	.36	3.7	3.3
23	1.2	1.9	1.9	1.7	2.8	3.3	3.1	3.2	2.4	1.1	3.5	2.4
24	1.5	1.9	1.8	1.7	3.4	3.2	3.3	3.2	2.1	.89	5.1	1.7
25	2.1	1.8	1.8	1.7	4.0	3.5	4.0	3.2	2.1	4.6	3.8	2.5
26	1.7	2.5	1.8	1.7	4.0	3.5	7.2	3.3	2.5	12	3.1	3.6
27	2.2	4.1	1.9	2.2	3.6	3.4	4.1	6.9	1.7	8.7	2.9	2.5
28	2.3	2.4	1.9	2.0	2.9	3.0	3.3	8.3	1.9	6.4	2.9	2.4
29	2.4	2.0	1.8	1.8	---	2.9	3.2	4.8	1.8	5.1	2.9	1.6
30	2.4	2.0	1.9	1.9	---	3.4	3.2	4.0	1.6	4.3	2.4	1.4
31	2.3	---	1.8	1.9	---	3.4	---	3.7	---	1.6	3.7	---
TOTAL	45.37	70.1	58.5	56.1	101.1	118.0	112.8	193.4	79.5	83.54	88.9	78.7
MEAN	1.46	2.34	1.89	1.81	3.61	3.81	3.76	6.24	2.65	2.69	2.87	2.62
MAX	2.4	4.1	2.5	2.5	9.3	9.6	8.0	26	3.6	12	5.2	3.6
MIN	.78	1.4	1.7	1.6	2.2	2.7	2.9	3.0	1.6	.36	1.4	1.4
AC-FT	90	139	116	111	201	234	224	384	158	166	176	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	1.56	1.79	1.70	1.67	2.13
MAX	2.56	2.34	2.04	2.02	3.61
(WY)	1994	1995	1994	1994	1995
MIN	1.02	1.22	1.40	1.42	1.52
(WY)	1993	1991	1991	1991	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	1303.21	1086.01	
ANNUAL MEAN	3.57	2.98	
HIGHEST ANNUAL MEAN			3.80
LOWEST ANNUAL MEAN			6.79
HIGHEST DAILY MEAN	156	26	240
LOWEST DAILY MEAN	.78	.36	.36
ANNUAL SEVEN-DAY MINIMUM	.98	.98	.65
INSTANTANEOUS PEAK FLOW		79	269
INSTANTANEOUS PEAK STAGE		6.90	10.49
ANNUAL RUNOFF (AC-FT)	2580	2150	2750
10 PERCENT EXCEEDS	2.8	4.1	3.6
50 PERCENT EXCEEDS	1.9	2.6	1.8
90 PERCENT EXCEEDS	1.2	1.5	1.1

151

ANNUAL TOTAL	2841030		3910680			
ANNUAL MEAN	7784		10710		6869	
HIGHEST ANNUAL MEAN					16210	1984
LOWEST ANNUAL MEAN					2885	1956
HIGHEST DAILY MEAN	37800	Mar 6	55600	May 29	138000	Jul 25 1993
LOWEST DAILY MEAN	3200	Sep 3	2130	Aug 20	131	Sep 3 1976
ANNUAL SEVEN-DAY MINIMUM	3430	Aug 28	2670	Aug 16	159	Aug 29 1976
INSTANTANEOUS PEAK FLOW			70500	May 29	160000	Jul 25 1993
INSTANTANEOUS PEAK STAGE			9.12	May 29	12.45	Mar 30 1960
ANNUAL RUNOFF (AC-FT)	5635000		7757000		4976000	
10 PERCENT EXCEEDS	11400		21100		12700	
50 PERCENT EXCEEDS	6770		8060		4970	
90 PERCENT EXCEEDS	4240		4110		1930	

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 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. 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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	HARD- NESS NONCARB DISSOLV FLD.AS CaCO ₃ (MG/L) (00904)
NOV	22...	1130	8570	590	8.5	4.0	751	12.3	--	190	30
FEB	22...	1000	13500	446	8.1	4.0	735	12.8	290	180	--
MAR	17...	1230	10200	538	8.0	12.5	742	10.0	--	200	--
JUN	03...	1100	39900	388	7.9	20.5	738	6.8	--	170	16
	03...	1830	47700	412	8.3	21.5	736	6.8	2800	180	31
	16...	1900	26000	775	8.4	26.0	739	9.1	--	290	130
JUL	12...	1030	13700	740	8.6	30.0	733	8.0	--	240	95
SEP	07...	1030	3740	664	8.6	20.0	732	6.8	630	190	9

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CaCO ₃ (39086)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO ₃ (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO ₃ (00453)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV	22...	57	12	43	1	7.6	162	0	198	64	0.30
FEB	22...	54	12	32	1	8.6	--	--	57	21	0.30
MAR	17...	60	13	33	1	10	--	--	70	18	0.40
JUN	03...	50	10	21	0.7	10	150	0	183	39	0.40
	03...	52	11	24	0.8	10	144	0	176	50	0.40
	16...	83	21	63	2	14	169	19	167	180	0.50
JUL	12...	65	20	58	2	10	150	19	144	160	0.50
SEP	07...	54	14	74	2	7.9	184	18	188	78	0.40

PLATTE RIVER BASIN

153

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 1994 TO SEPTEMBER 1995

DATE	SILICA, DIS- SOLVED (MG/L AS SIO ₂) (00955)	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
NOV 22...	30	366	355	0.50	8470	1.59	0.010	1.60	0.040	0.26	--
FEB 22...	31	334	325	0.45	12200	1.77	0.030	1.80	0.170	1.5	--
MAR 17...	32	366	353	0.50	10100	2.07	0.030	2.10	0.030	1.6	0.27
JUN 03...	22	283	252	0.38	30500	--	--	--	--	--	--
03...	23	307	273	0.42	39500	1.28	0.020	1.30	0.050	2.8	0.55
16...	27	588	528	0.80	41300	0.460	0.010	0.470	<0.015	1.9	--
JUL 12...	22	481	454	0.65	17800	--	0.020	<0.050	0.070	1.5	0.43
SEP 07...	26	471	449	0.64	4760	--	0.010	<0.050	<0.015	1.5	--
DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (μ G/L AS AL) (01106)	BARIUM, DIS- SOLVED (μ G/L AS BA) (01005)	COBALT, DIS- SOLVED (μ G/L AS CO) (01035)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	LITHIUM DIS- SOLVED (μ G/L AS LI) (01130)
NOV 22...	0.30	--	1.9	--	0.180	0.180	<10	120	<3	8	18
FEB 22...	1.7	--	3.5	--	0.190	0.170	80	120	3	51	17
MAR 17...	1.6	0.30	3.7	2.4	0.190	0.190	--	--	--	13	--
JUN 03...	--	--	--	--	--	--	20	140	<3	130	17
03...	2.8	0.60	4.1	1.9	0.170	0.180	--	--	--	32	--
16...	1.9	0.50	2.4	0.97	0.130	0.140	--	--	--	4	--
JUL 12...	1.6	0.50	1.6	--	0.050	0.030	--	--	--	11	--
SEP 07...	1.5	0.30	1.5	--	0.140	0.140	<10	110	<3	<3	19
DATE	MANGA- NESE, DIS- SOLVED (μ G/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (μ G/L AS MO) (01060)	NICKEL, DIS- SOLVED (μ G/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (μ G/L AS SE) (01145)	SILVER, DIS- SOLVED (μ G/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (μ G/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (μ G/L AS V) (01085)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. %FINER THAN .062MM (70331)
NOV 22...	16	20	2	3	<1.0	340	6	2.8	885	20500	43
FEB 22...	5	20	2	3	<1.0	310	<6	4.0	1910	69600	64
MAR 17...	2	--	--	--	--	--	--	4.2	700	19300	82
JUN 03...	4	<10	3	3	<1.0	280	8	7.3	4220	455000	63
03...	2	--	--	--	--	--	--	32	2060	265000	81
16...	<1	--	--	--	--	--	--	8.7	1250	87700	41
JUL 12...	1	--	--	--	--	--	--	5.8	418	15500	56
SEP 07...	<1	<10	2	2	<1.0	370	9	4.1	657	6630	22

WEeping WATER CREEK BASIN

06806500 WEeping WATER CREEK AT UNION, NE

LOCATION.--Lat 40°47'35", long 95°54'40", in SW1/4 NW1/4 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 mi².

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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e28	34	e40	e37	56	e34	61	90	356	106	84	35
2	e27	35	42	e34	67	e32	60	90	628	107	63	38
3	26	34	42	e30	472	e33	58	119	379	106	60	44
4	27	37	41	e27	226	e34	55	520	330	122	60	39
5	27	41	40	e26	87	e35	54	312	322	147	59	37
6	28	40	e35	e25	e58	e33	54	187	282	125	59	37
7	31	38	e33	e23	e50	e31	54	379	250	106	58	35
8	29	36	e31	e30	e48	e29	54	1610	755	101	55	34
9	28	36	e28	e35	e46	e35	66	1010	531	99	51	34
10	27	37	e26	e40	e45	e42	88	712	273	98	48	33
11	26	36	e30	e50	e44	64	136	374	237	92	47	32
12	26	38	e36	e54	e54	74	116	298	210	89	45	33
13	27	39	e37	60	e45	82	88	333	195	85	41	33
14	27	39	e37	59	e46	168	77	280	187	80	44	31
15	28	38	e39	55	e47	170	76	224	179	77	54	29
16	37	37	e40	52	e47	89	71	214	168	78	59	29
17	57	38	e41	64	50	74	70	232	159	75	52	28
18	54	41	e41	81	53	68	73	278	149	74	48	27
19	47	40	43	65	54	66	76	318	143	74	44	29
20	39	42	44	e48	55	65	79	211	138	92	42	31
21	35	55	47	e44	53	62	98	185	135	82	41	31
22	34	72	50	e42	52	59	84	191	129	77	40	31
23	31	51	e47	e40	49	57	74	321	131	73	40	32
24	33	43	e45	e38	47	54	71	410	125	71	42	32
25	33	41	e44	e36	46	55	68	237	140	67	39	32
26	33	41	e44	e40	46	120	87	199	146	65	38	32
27	33	43	e45	57	e45	99	153	661	138	63	36	32
28	33	46	e45	94	e37	73	105	717	138	59	36	31
29	33	46	e44	87	---	66	88	311	124	56	35	32
30	36	e40	e42	62	---	63	86	300	111	53	33	37
31	35	---	e40	53	---	61	---	281	---	56	32	---
TOTAL	1015	1234	1239	1488	2025	2027	2380	11604	7188	2655	1485	990
MEAN	32.7	41.1	40.0	48.0	72.3	65.4	79.3	374	240	85.6	47.9	33.0
MAX	57	72	50	94	472	170	153	1610	755	147	84	44
MIN	26	34	26	23	37	29	54	90	111	53	32	27
AC-FT	2010	2450	2460	2950	4020	4020	4720	23020	14260	5270	2950	1960

eEstimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

MEAN	62.9	43.6	38.7	40.8	84.0	132	107	170	194	191	92.7	73.2
MAX	579	148	136	177	301	1049	426	678	1603	2688	507	470
(WY)	1987	1974	1987	1974	1971	1979	1984	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

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1951 - 1994

ANNUAL TOTAL	30246	35330	103
ANNUAL MEAN	82.9	96.8	75.4
MEDIAN OF ANNUAL MEANS			433
HIGHEST ANNUAL MEAN			19.9
LOWEST ANNUAL MEAN			34000
HIGHEST DAILY MEAN	1910	Jun 2	1610
LOWEST DAILY MEAN	26	Oct 3	23
ANNUAL SEVEN-DAY MINIMUM	27	Oct 9	27
INSTANTANEOUS PEAK FLOW			2430
INSTANTANEOUS PEAK STAGE			15.68
ANNUAL RUNOFF (AC-FT)	59990	70080	74390
10 PERCENT EXCEEDS	110	212	167
50 PERCENT EXCEEDS	61	52	38
90 PERCENT EXCEEDS	31	31	8.5

MISSOURI RIVER MAIN STEM

155

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE

LOCATION.--Lat 40°40'55", long 95°50'48", in NW1/4 NE1/4 sec.9, T.8 N., R.14 E., Otoe County, Hydrologic Unit 10240001, on right bank 2.0 mi upstream from Highway 2 Bridge at Nebraska City, and at mile 562.6.

DRAINAGE AREA.--410,000 mi², approximately. The 3,959 mi² 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 encoder. 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.--No estimated daily discharges. Records good. Flow regulated by upstream main-stem reservoirs. U.S. Army Corps of Engineers rain-gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414,000 ft³/s Apr. 19, 1952; maximum gage height, 27.66 ft Apr. 18, 1952; minimum discharge, 1,600 ft³/s Dec. 31, 1946 (discharge measurement); minimum gage height observed, -0.28 ft Dec. 24, 1960, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37200	37900	30000	28000	26600	32100	50000	59500	102000	67500	51000	62700
2	37100	37900	29000	26400	27500	29500	48800	56800	106000	66800	51300	63700
3	37300	37800	28900	24400	29900	28300	47000	56600	108000	66200	51300	63600
4	37600	37800	29000	23500	32800	28100	46400	59400	108000	65000	51800	63500
5	38000	37600	28900	22800	32200	28900	45600	64300	103000	65200	52700	63000
6	38200	37700	28500	21400	30400	29300	45000	66000	96800	64400	52900	62500
7	39000	37700	27100	21200	29900	28300	45600	67800	91800	63900	53600	62400
8	39000	37700	23400	21800	28900	25600	46200	79500	85700	62800	54100	62400
9	39100	37500	23200	22500	27200	24700	45500	86200	81500	61300	56300	62100
10	38900	37800	24200	23100	26100	25400	46800	82700	78100	60200	60500	62000
11	38500	37900	24700	23900	27100	28600	48700	78800	77600	59900	62600	61600
12	38400	37700	24100	23900	27900	35700	49600	75300	76100	59300	61700	62200
13	38200	37800	23500	25400	24500	42800	49400	73400	73900	58900	60100	62500
14	38000	38200	23900	27700	21800	42500	48400	71300	72800	57500	60600	62300
15	38100	38000	25500	27000	24400	41900	47900	73600	74200	55500	61100	61600
16	38900	38500	26100	26400	25600	41600	48000	77000	74000	55100	62200	61400
17	39400	38600	25600	27200	24300	41500	48700	77300	73000	55400	65000	61300
18	40100	39000	26800	28300	25000	41000	49000	74800	71700	53700	66100	61600
19	40200	39300	27200	28100	26700	39300	50400	74600	70700	53000	66000	63400
20	40100	39400	26300	27600	29600	39400	58200	72100	70600	52200	65000	64600
21	40200	40200	26400	26800	32100	40500	64600	68000	69700	51900	64200	68900
22	40300	40500	27300	26300	35400	41800	66000	66100	68200	51600	63700	68300
23	40000	40400	28300	25100	36800	43000	64400	66200	67200	51400	64300	66900
24	39500	39700	27400	24000	35400	43700	67100	66500	68000	51400	69100	65200
25	39300	39100	28300	24500	33800	44200	69600	67400	68600	53600	74000	64000
26	39100	38600	28000	25200	33100	44800	72400	65200	67600	52900	67000	63400
27	39100	36700	28800	26300	32800	45700	72200	64600	67100	52900	60800	63100
28	38000	35400	29600	26200	32800	50500	68300	74400	69100	54000	59900	63300
29	37900	34800	29800	27000	---	53700	65000	95900	69700	52900	61300	63800
30	38000	31500	29300	27200	---	52500	61300	102000	68300	52100	62800	63800
31	37700	---	28600	26600	---	50800	---	101000	---	51500	62600	---
TOTAL	1200400	1138700	837700	785800	820600	1185700	1636100	2264300	2379000	1780000	1875600	1901100
MEAN	38720	37960	27020	25350	29310	38250	54540	73040	79300	57420	60500	63370
MAX	40300	40500	30000	28300	36800	53700	72400	102000	108000	67500	74000	68900
MIN	37100	31500	23200	21200	21800	24700	45000	56600	67100	51400	51000	61300
AC-FT	2381000	2259000	1662000	1559000	1628000	2352000	3245000	4491000	4719000	3531000	3720000	3771000

MISSOURI RIVER MAIN STEM

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	41950	38100	25050	21170	26200	38090	48010	47050	51050	46160	42440	42590
MAX	69440	68480	52410	39970	48630	66730	95660	85160	117500	116700	65540	66510
(WY)	1987	1976	1987	1987	1983	1983	1984	1984	1984	1993	1975	1975
MIN	22420	14380	10980	11610	14040	18770	29330	32980	33530	32760	31200	32560
(WY)	1962	1962	1964	1960	1963	1990	1990	1958	1958	1961	1991	1958

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

*WATER YEARS 1958 - 1995

ANNUAL TOTAL	14880300		17805000			
ANNUAL MEAN	40770		48780			39020
HIGHEST ANNUAL MEAN						61700
LOWEST ANNUAL MEAN						27810
HIGHEST DAILY MEAN	86600	Mar 7	108000	^b Jun 3		188000
LOWEST DAILY MEAN	20400	Jan 10	21200	Jan 7		5000
ANNUAL SEVEN-DAY MINIMUM	23800	Jan 7	22300	Jan 4		5930
INSTANTANEOUS PEAK FLOW			109000	Jun 3		196000
INSTANTANEOUS PEAK STAGE			21.35	Jun 3		27.19
INSTANTANEOUS LOW FLOW			21100	Jan 7		
ANNUAL RUNOFF (AC-FT)	29520000		35320000			28270000
10 PERCENT EXCEEDS	53600		71900			59400
50 PERCENT EXCEEDS	39900		46200			37400
90 PERCENT EXCEEDS	27100		26300			18200

a Post-regulation period.

b Also June 4.

LITTLE NEMAHA RIVER BASIN

157

06811500 LITTLE NEMAHA RIVER AT AUBURN, NE

LOCATION.--Lat 40°23'33", long 95°48'46", in NE1/4 NW1/4 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 mi².

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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	74	e90	e94	e94	e82	175	e300	712	197	429	49
2	59	75	e94	e88	e102	e84	169	e320	936	192	185	62
3	78	73	96	e84	e140	e88	158	337	672	190	127	68
4	73	77	93	e77	e230	e86	157	4500	640	206	108	65
5	76	84	89	e70	e120	e82	156	1950	903	273	97	61
6	79	85	e60	e76	e104	e78	140	794	662	262	99	58
7	102	83	e52	e74	e98	e74	136	2020	1050	207	102	56
8	85	78	e50	e78	e170	e86	133	12400	2550	186	91	58
9	71	73	e60	e86	e250	e98	131	6350	1710	172	81	61
10	67	72	e70	e88	e140	e120	172	3950	778	166	71	61
11	65	74	e80	e92	e100	e140	298	2150	587	156	61	62
12	65	77	e90	e98	e94	e160	385	1270	487	147	56	75
13	65	78	e96	e110	e120	223	266	3380	429	137	51	68
14	65	79	e98	e120	e110	1050	208	1670	395	125	78	62
15	70	77	e98	e114	e110	1230	187	826	366	137	218	61
16	84	77	e98	e104	e120	442	175	670	340	158	172	59
17	166	80	e96	e100	e135	294	167	1200	318	135	117	60
18	151	91	e94	e98	e150	234	173	1170	289	112	98	60
19	143	88	e90	e94	166	212	190	1550	268	116	84	83
20	111	94	e96	e88	150	204	206	697	259	174	78	79
21	88	119	e96	e84	146	195	486	566	246	154	76	80
22	79	172	e94	e84	143	176	355	630	236	154	74	80
23	71	133	e92	e86	136	165	256	2980	231	169	72	81
24	73	105	e84	e86	129	153	221	3060	227	127	69	79
25	71	96	e88	e90	123	160	205	991	249	111	64	78
26	72	95	e92	e92	120	333	240	669	275	100	58	79
27	73	103	e94	e92	e108	599	1160	5930	257	89	55	76
28	73	109	e96	e94	e90	301	597	5520	246	80	54	74
29	71	112	e98	e88	---	221	e450	1560	230	74	50	100
30	69	e88	e98	e78	---	198	e350	909	214	71	47	89
31	72	---	e96	e88	---	185	---	726	---	148	46	---
TOTAL	2539	2721	2718	2795	3698	7753	8102	71045	16762	4725	3068	2084
MEAN	81.9	90.7	87.7	90.2	132	250	270	2292	559	152	99.0	69.5
MAX	166	172	98	120	250	1230	1160	12400	2550	273	429	100
MIN	52	72	50	70	90	74	131	300	214	71	46	49
AC-FT	5040	5400	5390	5540	7330	15380	16070	140900	33250	9370	6090	4130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	232	123	111	118	231	461	353	504	516	614	235	258
MAX	2003	447	509	562	747	2870	1589	2292	3524	9419	1256	1546
(WY)	1974	1962	1987	1974	1993	1979	1984	1995	1951	1993	1982	1977
MIN	25.4	25.7	23.4	19.7	28.4	49.1	30.6	29.9	14.8	16.2	14.0	26.6
(WY)	1992	1956	1957	1957	1956	1957	1956	1956	1977	1977	1955	1991

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1950 - 1994

ANNUAL TOTAL	73150	128010	
ANNUAL MEAN	200	351	
MEDIAN OF ANNUAL MEANS			314
HIGHEST ANNUAL MEAN			235
LOWEST ANNUAL MEAN			1389
HIGHEST DAILY MEAN	3500 Jun 6	12400 May 8	64.4 1993
LOWEST DAILY MEAN	50 Dec 8	46 Aug 31	1981
ANNUAL SEVEN-DAY MINIMUM	63 Sep 15	51 Aug 26	.87 Jul 6 1977
INSTANTANEOUS PEAK FLOW		20400 May 8	1.1 Jul 3 1977
INSTANTANEOUS PEAK STAGE		22.47 May 8	164000 May 9 1950
ANNUAL RUNOFF (AC-FT)	145100	253900	*27.65 May 9 1950
10 PERCENT EXCEEDS	309	669	227200
50 PERCENT EXCEEDS	127	103	454
90 PERCENT EXCEEDS	71	68	98
			33

e Estimated.

* From floodmark.

MISSOURI RIVER MAIN STEM

06813500 MISSOURI RIVER AT RULO, NE

LOCATION.--Lat 40°03'13", long 95°25'19", in NW1/4 NW1/4 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 mi², approximately. The 3,959 mi² 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 encoder. 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.--Estimated daily discharges: June 8. Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. 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 ft³/s Apr. 22, 1952, gage height, 25.60 ft; minimum daily discharge, 4,420 ft³/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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40400	40500	32900	31000	28700	35000	54600	66400	114000	72300	57500	63600
2	40500	40600	32300	29800	29100	33700	53400	63200	112000	70600	55900	64300
3	43100	40500	31600	27600	31000	30800	51100	60300	111000	69600	56500	65300
4	41500	40500	31600	26100	34800	30900	49600	64100	112000	70900	56600	65500
5	41300	40300	31300	25500	36800	31100	48400	69600	114000	76800	58000	65000
6	41300	40000	31100	24200	34200	32000	48500	68100	112000	70900	59300	65100
7	41500	39900	30500	22300	32600	31600	48100	70500	108000	68700	60200	65100
8	41600	39800	27600	22500	31900	29000	49700	106000	e106000	68100	61600	65300
9	41300	39500	25000	22900	30900	26500	49100	102000	99000	66900	62900	65000
10	40800	39600	25300	23500	29500	26000	50000	99800	89200	65700	65600	65200
11	40400	40000	26100	24200	29100	28400	54400	95200	84900	65400	68500	64500
12	39900	39800	26400	24900	30100	33300	57100	90900	83500	64300	67700	64500
13	40000	39800	25800	25300	28900	45500	57400	118000	82400	63500	66000	64700
14	39700	39800	25300	28500	25500	47200	55300	108000	81200	62100	64900	64500
15	39800	39900	25900	30600	24200	45900	53700	85700	80300	60100	66100	63800
16	40400	39700	27900	29400	27400	44500	53100	82000	80300	59600	67200	62800
17	41500	39600	28100	29500	27600	43600	53300	90400	79100	59000	68200	62200
18	43200	40300	28400	31200	27500	43600	54400	94900	78000	57700	68900	62000
19	43300	40400	30300	30900	29000	42400	55300	88200	76500	55700	68300	64200
20	42900	40900	30100	30500	32000	41300	61800	82300	75500	57500	67200	66000
21	42400	41100	29700	29300	35700	41900	71500	78100	75300	56900	66100	67000
22	42800	42000	30100	28800	40200	43000	75300	75000	74100	57600	65300	69700
23	42600	42700	31100	28300	42200	44800	72400	84500	73400	58600	65300	68300
24	42100	42000	31100	26900	39300	45700	72800	88300	74600	59600	66800	67400
25	41800	41600	30800	26700	38000	46700	76100	80400	75900	60800	72300	66600
26	41800	41100	31200	27600	36800	49000	77900	77100	76700	61600	71900	66100
27	41700	39700	31500	28900	35800	52700	82800	89900	75900	60100	64900	66300
28	41500	38000	32200	29800	35400	55700	81300	110000	75300	60700	61500	66500
29	40600	37300	32900	29300	---	60100	74700	101000	75600	60100	61400	66800
30	40600	35800	32500	29900	---	59200	70100	106000	73700	58500	63000	67200
31	40500	---	32400	29100	---	56500	---	108000	---	57300	63400	---
TOTAL	1282800	1202700	919000	855000	904200	1277600	1813200	2703900	2629400	1957200	1989000	1960500
MEAN	41380	40090	29650	27580	32290	41210	60440	87220	87650	63140	64160	65350
MAX	43300	42700	32900	31200	42200	60100	82800	118000	114000	76800	72300	69700
MIN	39700	35800	25000	22300	24200	26000	48100	60300	73400	55700	55900	62000
AC-FT	2544000	2386000	1823000	1696000	1793000	2534000	3596000	5363000	5215000	3882000	3945000	3889000
CFSM	.10	.10	.07	.07	.08	.10	.14	.21	.21	.15	.15	.16
IN.	.11	.11	.08	.08	.08	.11	.16	.24	.23	.17	.18	.17

c Estimated

MISSOURI RIVER MAIN STEM

159

06813500 MISSOURI RIVER AT RULO, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	43900	39930	26600	22420	28170	41740	51690	51300	55290	50800	44630	45330
MAX	77770	69430	55240	42280	52560	79590	102900	94370	130600	164800	67800	69780
(WY)	1987	1976	1987	1973	1983	1979	1984	1984	1984	1993	1975	1975
MIN	25580	17000	11330	12430	14530	19380	31960	34040	34830	33860	32790	34140
(WY)	1962	1962	1964	1964	1964	1964	1990	1958	1958	1963	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			*WATER YEARS 1958 - 1995	
ANNUAL TOTAL	16221400			19494500				
ANNUAL MEAN	44440			53410			41850	
HIGHEST ANNUAL MEAN							65930	
LOWEST ANNUAL MEAN							29670	
HIGHEST DAILY MEAN	90400	Mar 7		118000	May 13		289000	Jul 24 1993
LOWEST DAILY MEAN	24200	Jan 11		22300	Jan 7		5200	Jan 27 1961
ANNUAL SEVEN-DAY MINIMUM	25700	Dec 9		23500	Jan 6		5860	Dec 14 1963
INSTANTANEOUS PEAK FLOW				127000	May 13		307000	Jul 24 1993
INSTANTANEOUS PEAK STAGE				22.41	May 13		25.37	Jul 24 1993
INSTANTANEOUS LOW FLOW				22100	Jan 7			
ANNUAL RUNOFF (AC-FT)	32180000			38670000			30320000	
ANNUAL RUNOFF (CFSM)	.11			.13			.10	
ANNUAL RUNOFF (INCHES)	1.44			1.73			1.36	
10 PERCENT EXCEEDS	61200			80700			64300	
50 PERCENT EXCEEDS	42700			49700			39100	
90 PERCENT EXCEEDS	30100			28800			19500	

a Post-regulation period

MISSOURI RIVER BASIN

BIG NEMAHA RIVER BASIN

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 mi²

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 fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

PEAK DISCHARGES GREATER THAN BASE FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft³/sec and maximum (*):

Date	Time	Discharge (ft ³ /sec)	Gage height (ft)	Date	Time	Discharge (ft ³ /sec)	Gage height (ft)
May 8	0530	12,200	23.44	May 17	0745	3,290	16.66
May 13	0715	*14,000	*23.73	May 27	2230	6,980	22.23

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	6.1	9.7	e8.0	e11	9.7	35	371	246	55	36	10
2	1.7	6.3	8.5	e6.0	e10	e9.0	31	295	218	51	29	30
3	11	5.6	8.1	e4.0	e9.8	e8.0	28	211	185	51	29	21
4	15	5.9	7.5	e3.5	e9.6	e7.5	24	1820	201	301	27	16
5	5.3	7.0	7.8	e3.6	e9.4	e7.0	23	520	199	912	26	14
6	15	7.0	7.8	e3.7	e9.2	e7.0	22	254	167	150	26	13
7	24	6.6	e7.0	e3.8	e9.0	e8.0	23	1430	141	93	33	12
8	6.9	6.1	e6.0	e4.0	e9.0	e9.0	22	7150	649	73	25	12
9	4.4	5.6	e5.5	e4.5	e9.0	e10	21	998	546	62	24	e11
10	3.6	5.7	e5.0	e5.0	e9.0	e12	111	713	261	55	23	e11
11	3.5	6.0	e5.5	e6.0	e7.0	e14	365	532	188	51	22	12
12	3.6	6.0	e6.0	e7.0	e6.0	e16	197	949	152	48	22	15
13	2.8	6.5	e6.5	e8.0	e7.0	49	80	9670	130	42	21	14
14	2.7	7.3	e7.0	e10	e8.5	1210	52	1320	119	38	22	12
15	3.5	6.8	e7.5	e12	e9.5	351	41	579	110	34	77	9.8
16	5.0	6.1	e8.5	e14	e11	130	33	552	100	53	52	e9.5
17	39	6.4	e9.5	e15	e12	79	29	2090	89	66	33	e10
18	46	6.9	e11	e15	e14	60	37	2040	81	38	26	12
19	14	7.6	e13	e14	e15	50	56	632	72	41	23	21
20	8.0	7.7	e15	e13	16	50	392	374	69	133	20	24
21	5.3	13	e15	e12	16	47	423	287	64	55	e19	16
22	4.2	10	e14	e11	15	38	121	238	60	41	e18	15
23	4.7	10	e13	e10	14	33	72	742	59	36	e17	13
24	5.0	8.8	e12	e9.5	13	27	54	763	59	34	e17	11
25	5.1	8.2	13	e9.0	11	28	44	299	206	33	16	10
26	4.2	8.1	14	e10	11	460	300	215	77	30	16	9.3
27	5.1	8.3	14	e11	11	246	804	3680	66	29	15	7.5
28	4.4	9.9	13	e12	11	89	231	2170	139	26	14	6.7
29	4.7	9.5	12	e11	---	55	126	482	133	24	13	7.1
30	4.9	8.3	12	e10	---	44	89	336	66	23	12	6.7
31	5.5	---	11	e10	---	38	---	269	---	22	11	---
MEAN	8.71	7.44	9.85	8.89	10.8	103	130	1354	162	87.1	24.6	13.1
MAX	46	13	15	15	16	1210	804	9670	649	912	77	30
MIN	1.7	5.6	5.0	3.5	6.0	7.0	21	211	59	22	11	6.7
MED	5.0	6.9	9.5	10	10	38	53	579	131	48	22	12

e Estimated

MISSOURI RIVER BASIN

161

BIG NEMAHA RIVER BASIN

06814000 TURKEY CREEK NEAR SENECA, KS--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1995, BY WATER YEAR (WY)

S												
MEAN	92.2	42.4	34.2	41.4	93.3	212	170	224	238	220	88.9	142
MAX	1050	251	206	310	372	1297	1079	1354	2067	3193	914	1057
(WY)	1974	1962	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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1949 - 1995

ANNUAL MEAN	45.8	162	132
HIGHEST ANNUAL MEAN			547
LOWEST ANNUAL MEAN			3.24
HIGHEST DAILY MEAN	1180 Mar 4	9670 May 13	16700 Oct 11 1973
LOWEST DAILY MEAN	1.7 Oct 2	1.7 Oct 2	.00 Jul 28 1956
ANNUAL SEVEN-DAY MINIMUM	2.8 Sep 15	3.4 Oct 9	.00 Aug 21 1956
INSTANTANEOUS PEAK FLOW		14000 May 13	21400 Oct 11 1973
INSTANTANEOUS PEAK STAGE		23.73 May 13	24.77 Oct 11 1973
10 PERCENT EXCEEDS	77	297	212
50 PERCENT EXCEEDS	28	15	22
90 PERCENT EXCEEDS	4.4	5.8	2.0

06814500 NORTH FORK BIG NEMAHA RIVER AT HUMBOLDT, NE

LOCATION.--Lat 40°09'25", long 95°56'40", in NW1/4NE1/4 sec.10, T.2 N., R.13 E., Richardson County, Hydrologist, Unit 10240008, on right bank near right downstream wingwall of bridge on State Highway 105 at south edge of Humboldt, 800 ft downstream from Long Branch Creek, and at mile 16.6.

DRAINAGE AREA.--548 mi².

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1967 published as North Fork Nemaha River at Humboldt.

REVISÉD RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder, nonrecording gage read twice daily. Datum of gage is 944.44 ft above sea level. Prior to Apr. 5, 1968, nonrecording gage at present site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

	2017											
	Q1		Q2		Q3		Q4		Q5		Q6	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	41	e48	e43	e72	e37	82	305	1130	110	551	37
2	35	41	51	e41	e78	e40	76	364	677	107	121	48
3	59	41	51	e40	e80	e42	73	376	377	104	74	55
4	48	42	e48	e40	e78	e46	70	3720	414	143	61	38
5	50	44	e44	e41	e72	e50	64	1010	545	387	52	33
6	54	44	e40	e41	e68	e52	64	405	415	324	58	34
7	73	41	e41	e39	e64	e48	64	832	415	176	87	30
8	50	41	e42	e43	e60	e37	63	8230	2950	115	62	24
9	42	41	e40	e50	e66	e40	63	5180	1150	96	52	22
10	41	40	e38	e54	e58	e48	164	4320	571	81	49	21
11	40	40	e36	e58	e56	e58	320	3020	394	79	47	20
12	39	41	e40	e62	e50	78	263	2400	326	75	46	30
13	41	43	e44	e70	e54	216	153	7410	274	73	43	36
14	41	46	e50	e80	e58	1580	114	1460	237	67	83	30
15	42	42	e50	e90	e60	708	97	715	213	64	345	26
16	49	41	e50	e88	e58	287	85	1010	209	196	191	30
17	166	41	e52	e82	e58	180	81	1440	213	113	111	31
18	93	46	e52	e76	e60	136	84	1690	180	80	78	31
19	64	46	e50	e72	e64	116	99	972	149	70	60	74
20	52	50	e54	e70	e68	115	450	530	145	96	50	73
21	47	61	e56	e70	e70	99	461	483	143	101	50	56
22	45	67	e56	e68	69	90	238	405	139	86	51	47
23	42	67	e54	e68	e64	81	159	1870	137	141	57	46
24	42	54	e54	e66	e58	74	131	1670	129	94	52	46
25	40	51	e54	e66	58	88	115	680	146	67	50	47
26	40	50	e52	e68	57	425	468	470	153	59	47	47
27	40	54	e52	e70	e54	327	1160	5660	145	53	46	48
28	40	57	e50	e70	e44	165	385	2690	156	47	44	48
29	40	e53	e50	e74	---	117	220	940	143	44	46	72
30	40	e45	e47	e72	---	99	167	630	121	42	45	66
31	42	---	e44	e70	---	89	---	396	---	53	43	---
TOTAL	1570	1411	1490	1942	1756	5568	6033	61283	12396	3343	2752	1246
MEAN	50.6	47.0	48.1	62.6	62.7	180	201	1977	413	108	88.8	41.5
MAX	166	67	56	90	80	1580	1160	8230	2950	387	551	74
MIN	33	40	36	39	44	37	63	305	121	42	43	20
AC-FT	3110	2800	2960	3850	3480	11040	11970	121600	24590	6630	5460	2470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

MEAN	164	80.5	71.9	81.2	164	356	241	309	294	400	164	220
MAX	1604	375	300	422	781	1710	1229	1977	1412	6506	1436	1455
(WY)	1974	1962	1974	1974	1969	1979	1984	1995	1954	1993	1954	1973
MIN	12.8	18.4	17.9	13.8	28.4	27.1	26.1	23.5	5.62	3.61	11.0	10.7
(WY)	1957	1957	1957	1991	1957	1956	1956	1966	1977	1977	1991	1956

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1953 - 1995

ANNUAL TOTAL	40079		100790				
ANNUAL MEAN	110		276			212	
MEDIAN OF ANNUAL MEANS						169	
HIGHEST ANNUAL MEAN						872	1993
LOWEST ANNUAL MEAN						36.5	1991
HIGHEST DAILY MEAN	1990	Jun 12	8230	May 8	30000		Jul 6 1993
LOWEST DAILY MEAN	28	Sep 28	20	Sep 11	.07		Jul 22 1977
ANNUAL SEVEN-DAY MINIMUM	33	Sep 15	26	Sep 6	.30		Jul 18 1977
INSTANTANEOUS PEAK FLOW			20100	May 8	59500	(*31.25)	Aug 13 1982
INSTANTANEOUS PEAK STAGE			15.00	May 8	31.70		Jul 10 1958
ANNUAL RUNOFF (AC-FT)	79500		199900		153900		
10 PERCENT EXCEEDS	200		464		277		
50 PERCENT EXCEEDS	67		64		52		
90 PERCENT EXCEEDS	40		40		19		

e Estimated.

* From floodmark.

BIG NEMAHA RIVER BASIN

163

06815000 BIG NEMAHA RIVER AT FALLS CITY, NE

LOCATION.--Lat 40°02'08", long 95°35'45", in NE1/4 SE1/4 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 mi².

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 861.24 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 same datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	76	e100	e100	e130	e80	261	e800	3800	399	722	165
2	67	77	e102	e94	e140	e78	238	e900	2320	368	515	151
3	112	77	104	e86	e150	e78	214	e1000	1430	365	315	330
4	306	79	102	e77	e130	e84	184	e8000	1630	2090	248	259
5	191	82	102	e60	e114	e90	166	e3500	1710	3440	232	189
6	139	83	e94	e66	e110	e94	156	1610	1410	1200	224	165
7	172	83	e82	e74	e98	e100	153	2980	1140	626	227	150
8	175	81	e86	e68	e96	e80	154	28400	9070	440	238	141
9	126	81	e86	e80	e100	e90	149	8190	4620	355	208	147
10	90	80	e80	e94	e100	e110	277	3800	2370	310	178	139
11	79	80	e70	e120	e92	e125	1330	2890	1600	278	154	140
12	76	80	e76	e145	e80	e150	1150	3610	1270	260	145	191
13	73	82	e88	e160	e96	209	662	36400	1090	242	139	175
14	71	87	e98	e170	e110	1690	440	12600	981	229	148	178
15	74	88	e104	e185	e116	2610	353	2890	903	197	667	156
16	80	86	e106	e180	e110	983	301	1820	830	223	855	145
17	172	86	e110	e170	e120	566	263	9050	766	291	771	129
18	435	89	e100	e155	e125	410	292	10700	718	256	370	108
19	288	91	e125	e140	e130	335	300	4000	664	219	256	1000
20	159	104	e140	e120	143	300	403	1820	596	349	202	1200
21	114	117	e150	e100	137	276	1360	1280	540	578	179	361
22	95	118	e145	e110	133	249	914	1160	476	346	171	220
23	82	138	e140	e112	129	221	527	4510	473	312	172	185
24	79	127	e135	e114	e120	185	406	4720	489	328	173	156
25	74	113	e130	e116	e114	202	348	2030	735	270	167	140
26	73	107	e125	e120	113	1950	656	1410	793	254	163	127
27	71	107	e125	e122	e100	1570	2010	11200	488	252	158	117
28	71	e104	e125	e118	e90	745	1700	13200	637	237	147	108
29	73	e102	e120	e130	---	435	e900	3240	1110	223	152	155
30	71	e100	e118	e125	---	338	e600	1890	546	205	170	358
31	77	---	e110	e114	---	293	---	1540	---	229	168	---
TOTAL	3823	2805	3378	3625	3226	14726	16867	191140	45205	15371	8634	7185
MEAN	123	93.5	109	117	115	475	562	6166	1507	496	279	239
MAX	435	138	150	185	150	2610	2010	36400	9070	3440	855	1200
MIN	58	76	70	60	80	78	149	800	473	197	139	108
AC-FT	7580	5560	6700	7190	6400	29210	33460	379100	89660	30490	17130	14250

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	445	237	185	233	443	916	776	1025	1156	1035	498	679
MAX	5229	1249	1036	1446	2998	5819	4462	6166	7816	15690	3898	3408
(WY)	1974	1962	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1944 - 1995

ANNUAL TOTAL	93752	315985	
ANNUAL MEAN	257	866	633
MEDIAN OF ANNUAL MEANS			530
HIGHEST ANNUAL MEAN			2559
LOWEST ANNUAL MEAN			86.7
HIGHEST DAILY MEAN	3050	36400	57600
LOWEST DAILY MEAN	58	58	3.0
ANNUAL SEVEN-DAY MINIMUM	64	73	4.0
INSTANTANEOUS PEAK FLOW		43700	71600
INSTANTANEOUS PEAK STAGE		26.85	31.40
ANNUAL RUNOFF (AC-FT)	186000	626800	458600
10 PERCENT EXCEEDS	458	1650	1080
50 PERCENT EXCEEDS	171	166	160
90 PERCENT EXCEEDS	75	80	44

KANSAS RIVER BASIN

06821500 ARIKAREE RIVER AT HAIGLER, NE

LOCATION.--Lat 40°01'45", long 101°58'10", in NE1/4 NE1/4 sec.29, T.1 N., R.41 W., Dund 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 mi², of which about 1,020 mi² 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.

REMARKS.--Record fair except for periods of estimated record, which are 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	1.3	.44	.41	.50	.67	5.0	11	141	8.0	10	1.4
2	5.0	1.3	.43	.40	.50	.75	5.1	8.7	45	11	10	.55
3	6.4	1.3	.41	.41	.50	.84	5.1	10	52	9.2	9.1	.37
4	7.8	1.2	.41	.38	.50	.90	5.3	17	57	8.0	5.1	.19
5	8.8	1.1	.41	.39	.50	1.0	5.5	21	93	10	3.3	.04
6	12	1.2	.40	.38	.50	1.1	5.5	22	49	7.6	3.3	.01
7	12	1.1	.40	.38	.50	1.1	5.6	20	30	5.0	2.5	.00
8	11	1.2	.38	.40	.55	1.2	5.7	20	50	3.7	3.8	3.0
9	9.7	1.2	.39	.39	.60	1.3	5.7	32	77	2.8	3.3	2.3
10	6.1	1.2	.38	.38	.60	1.4	5.9	25	66	2.2	3.7	2.9
11	2.7	1.1	.38	.38	.55	1.5	6.6	19	49	1.9	2.3	2.4
12	3.1	1.0	.38	.38	.52	1.6	8.0	18	39	2.1	1.7	1.1
13	4.2	.99	.38	.40	.50	1.7	8.0	16	34	2.0	1.4	.53
14	5.9	1.0	.38	.43	.60	1.8	7.8	11	30	1.7	1.2	1.7
15	15	.97	.38	.43	.55	1.9	6.9	9.7	26	209	2.8	3.0
16	20	.84	.38	.42	.57	2.1	6.5	9.1	22	73	2.8	3.1
17	19	.99	.38	.44	.63	2.2	6.7	8.9	17	38	2.2	2.4
18	23	.87	.38	.44	.66	2.3	8.9	9.6	20	154	1.3	2.4
19	18	.66	.38	.44	.60	2.4	8.9	8.4	21	66	.81	2.3
20	17	.53	.38	.44	.60	2.5	12	8.5	19	120	.65	2.9
21	6.0	.50	.38	.44	.62	2.6	11	10	17	82	.55	2.9
22	5.4	.50	.38	.45	.55	2.7	9.5	8.3	14	35	.85	4.4
23	5.7	.50	.38	.45	.54	2.7	8.8	11	19	24	1.3	5.5
24	8.0	.50	.38	.45	.58	2.9	8.1	10	24	18	1.4	5.4
25	4.3	.49	.38	.44	.63	2.9	7.6	8.5	22	17	.69	5.2
26	2.3	.46	.38	.43	.61	3.3	8.4	9.0	18	19	.44	6.0
27	1.8	.45	.38	.42	.55	3.4	8.9	41	15	12	.36	6.6
28	1.6	.46	.38	.42	.62	3.6	8.0	64	10	7.6	.26	5.5
29	1.5	.46	.40	.41	---	3.9	7.5	28	7.3	8.5	.12	5.2
30	1.4	.45	.45	.42	---	4.5	11	24	6.8	8.5	.83	3.6
31	1.4	---	.41	.42	---	4.6	---	50	---	10	1.2	---
TOTAL	249.8	25.82	12.15	12.87	15.73	67.36	223.5	568.7	1090.1	976.8	79.26	82.89
MEAN	8.06	.86	.39	.42	.56	2.17	7.45	18.3	36.3	31.5	2.56	2.76
MAX	23	1.3	.45	.45	.66	4.6	12	64	141	209	10	6.6
MIN	1.4	.45	.38	.38	.50	.67	5.0	8.3	6.8	1.7	.12	.00
AC-FT	495	51	24	26	31	134	443	1130	2160	1940	157	164

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1995, BY WATER YEAR (WY)

MEAN	10.2	8.52	6.90	8.13	16.6	29.6	24.2	42.9	42.1	21.1	19.1	16.0
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	.35	.42	.56	2.17	2.72	3.61	3.34	.068	.000	.58
(WY)	1984	1983	1969	1995	1995	1995	1978	1986	1956	1978	1952	1953

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1932 - 1995

ANNUAL TOTAL	3974.06	3404.98	
ANNUAL MEAN	10.9	9.33	20.4
MEDIAN OF ANNUAL MEANS			16
HIGHEST ANNUAL MEAN			127
LOWEST ANNUAL MEAN			3.69
HIGHEST DAILY MEAN	42	Apr 11	209 Jul 15
LOWEST DAILY MEAN	.00	Aug 18	.00 Sep 7
ANNUAL SEVEN-DAY MINIMUM	.38	Dec 10	.37 Sep 1
INSTANTANEOUS PEAK FLOW			407 Jul 15
INSTANTANEOUS PEAK STAGE			8.47 Jul 15
ANNUAL RUNOFF (AC-FT)	7880	6750	14790
10 PERCENT EXCEEDS	23	21	32
50 PERCENT EXCEEDS	11	2.4	9.3
90 PERCENT EXCEEDS	.42	.39	.80

* 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 SE1/4 NW1/4 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 mi², of which about 174 mi² 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.

REMARKS.--Records fair. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	56	47	e49	48	46	52	61	57	23	9.3	8.5
2	19	56	48	e48	48	45	50	55	33	21	8.4	8.2
3	22	55	48	e47	46	44	48	56	26	21	7.7	8.3
4	22	54	46	e46	46	43	48	55	68	23	9.3	8.1
5	28	54	44	e45	46	42	46	55	67	25	10	8.2
6	37	53	42	e47	46	42	45	55	59	26	9.1	7.9
7	39	52	e40	e48	46	48	43	55	51	14	7.9	7.2
8	35	52	e40	e49	44	58	43	59	58	12	7.0	7.2
9	32	51	e41	50	43	57	45	63	63	11	7.3	7.4
10	29	50	e42	50	43	57	49	59	58	10	7.0	7.8
11	28	50	e42	51	43	57	51	57	55	14	7.0	7.8
12	32	49	42	51	42	57	50	54	51	15	6.6	7.8
13	35	49	48	48	e44	56	53	52	45	9.7	6.4	7.1
14	35	48	48	46	e46	56	49	51	44	9.5	6.4	7.0
15	47	48	47	46	e48	57	46	51	44	24	6.8	6.7
16	54	47	48	45	50	57	46	52	42	17	7.1	7.0
17	52	47	48	44	53	57	48	50	42	30	7.4	7.4
18	52	47	49	43	53	55	51	52	41	54	8.4	7.0
19	47	47	49	43	54	53	55	53	37	50	8.6	7.7
20	59	49	50	42	53	51	62	54	36	65	7.5	9.1
21	62	50	50	42	54	51	59	52	34	63	6.6	14
22	61	49	50	42	52	51	55	52	33	51	9.4	27
23	60	49	51	41	50	53	52	54	32	46	11	15
24	60	48	51	41	49	54	50	53	32	44	9.0	19
25	59	48	51	40	48	56	48	51	33	29	11	20
26	58	48	51	40	48	59	54	51	34	21	13	22
27	57	47	51	e43	48	51	53	65	33	20	10	26
28	56	46	52	e45	47	59	49	63	28	18	16	27
29	56	45	53	e48	---	56	49	56	27	12	15	29
30	57	45	51	49	---	53	56	57	26	9.4	12	32
31	57	---	e50	49	---	52	---	60	---	8.8	10	---
TOTAL	1365	1489	1470	1418	1338	1633	1505	1713	1289	796.4	278.2	384.4
MEAN	44.0	49.6	47.4	45.7	47.8	52.7	50.2	55.3	43.0	25.7	8.97	12.8
MAX	62	56	53	51	54	59	62	65	68	65	16	32
MIN	18	45	40	40	42	42	43	50	26	8.8	6.4	6.7
AC-FT	2710	2950	2920	2810	2650	3240	2990	3400	2560	1580	552	762

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

MEAN	37.2	57.3	61.4	60.9	62.8	65.6	58.6	43.1	35.7	19.2	18.9	26.8
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	40.5	39.4	45.0	50.7	23.5	11.0	12.2	5.36	4.12	5.78
(WY)	1979	1989	1993	1979	1993	1980	1972	1992	1952	1978	1940	1978

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1935 - 1995

ANNUAL TOTAL	13003.5	14679.0	
ANNUAL MEAN	35.6	40.2	45.4
HIGHEST ANNUAL MEAN			65.3
LOWEST ANNUAL MEAN			30.0
HIGHEST DAILY MEAN	68 Apr 11	68 Jun 4	761 May 15 1951
LOWEST DAILY MEAN	7.3 Aug 27	6.4 Aug 13	1.7 Jul 11 1938
ANNUAL SEVEN-DAY MINIMUM	8.0 Jul 1	6.8 Aug 10	2.3 Aug 5 1940
INSTANTANEOUS PEAK FLOW		99 Jul 20	2110 Apr 28 1947
INSTANTANEOUS PEAK STAGE		*1.92 Jan 8	5.92 Apr 28 1947
ANNUAL RUNOFF (AC-FT)	25790	29120	32900
10 PERCENT EXCEEDS	55	57	73
50 PERCENT EXCEEDS	45	47	51
90 PERCENT EXCEEDS	10	8.7	9.0

e Estimated.

* Backwater from ice.

KANSAS RIVER BASIN

06823500 BUFFALO CREEK NEAR HAIGLER, NE

LOCATION.--Lat 40°02'22", long 101°51'57", in SE1/4 NW1/4 sec.20, T.1 N., R.40 W., Dundy County, Hydrologic Unit 10250002, on left bank 15 ft upstream from county highway bridge, 0.4 mi upstream from mouth, and 4 mi northeast of Haigler.

DRAINAGE AREA.--172 mi², of which about 8.6 mi² 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 3,188.90 ft above sea level. Prior to Sept. 19, 1980, at site 0.5 mi upstream at datum 15.67 ft higher.

REMARKS.--Records poor.. Natural low affected by diversion about 1 mi upstream for irrigation of 880 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	5.7	e5.6	e5.8	e5.7	e5.6	e5.9	9.4	6.6	.01	.01	.01
2	5.1	5.7	e5.6	e5.8	e5.7	e5.6	e6.0	8.3	6.1	.01	.01	.01
3	5.3	5.8	e5.6	e5.8	e5.7	e5.6	e6.0	8.3	6.9	.01	.01	.01
4	5.4	6.2	e5.6	e5.8	e5.7	e5.6	e6.0	8.5	7.8	.02	.01	.01
5	5.5	6.6	e5.6	e5.8	e5.7	e5.6	e6.1	7.7	8.5	.02	.01	.01
6	6.0	6.5	e5.6	e5.8	e5.7	e5.6	e6.2	7.5	7.0	.09	.01	.01
7	5.8	6.3	e5.6	e5.8	e5.7	e5.6	e6.5	7.4	6.1	.36	.01	.01
8	5.5	6.1	e5.6	e5.8	e5.7	e5.6	e6.7	7.4	7.4	.03	.01	.01
9	5.1	6.1	e5.6	e5.8	e5.7	e5.6	e7.0	7.5	7.4	.17	.01	.01
10	5.1	6.1	e5.6	e5.9	e5.7	e5.6	e7.3	7.3	7.0	.08	.01	.01
11	5.0	6.1	e5.6	e5.9	e5.7	e5.6	e7.8	7.0	6.4	.00	.00	.01
12	5.0	5.8	e5.6	e5.8	e5.7	e5.6	e8.0	7.0	6.2	.00	.00	.01
13	5.0	6.3	e5.6	e5.8	e5.7	e5.6	e8.2	7.1	6.0	.00	.00	.00
14	5.3	6.5	e5.6	e5.8	e5.7	e5.6	e8.4	6.7	5.8	.00	.00	.01
15	5.4	6.2	e5.6	e5.8	e5.7	e5.6	e8.5	6.6	5.7	.00	.00	.01
16	5.8	5.9	e5.6	e5.8	e5.7	e5.6	e8.6	6.6	5.5	.00	.00	.00
17	6.0	5.3	e5.6	e5.8	e5.7	e5.6	e8.6	6.8	5.2	.48	.00	.00
18	6.6	5.0	e5.6	e5.8	e5.7	e5.7	e8.6	6.9	5.2	6.3	.00	.00
19	7.2	4.9	e5.6	e5.8	e5.7	e5.7	e8.6	6.9	2.7	6.3	.00	.86
20	5.8	5.7	e5.6	e5.8	e5.7	e5.8	e8.6	6.7	.03	6.6	.00	2.3
21	5.5	e5.7	e5.6	e5.8	e5.6	e5.8	e8.5	6.8	.01	6.3	.00	3.2
22	5.5	e5.8	e5.6	e5.8	e5.6	e5.8	e8.4	6.7	.00	5.2	.00	4.9
23	5.5	5.8	e5.7	e5.8	e5.6	e5.8	e8.3	6.7	.04	4.7	.00	4.6
24	5.5	e5.8	e5.7	e5.7	e5.6	e5.8	e8.2	6.6	.01	4.2	.00	7.8
25	5.5	e5.8	e5.7	e5.7	e5.6	e5.8	e8.1	6.4	.01	.86	.00	4.2
26	5.5	e5.8	e5.7	e5.7	e5.6	e5.8	7.8	6.5	.00	.70	.00	4.2
27	5.6	e5.7	e5.7	e5.7	e5.6	e5.8	7.8	8.8	.00	.34	.00	4.3
28	5.7	e5.7	e5.7	e5.7	e5.6	e5.8	7.3	9.4	.01	.02	.00	4.3
29	5.7	e5.6	e5.8	e5.7	---	e5.8	7.1	7.5	.01	.01	.00	4.1
30	5.6	e5.6	e5.8	e5.7	---	e5.9	8.3	6.9	.01	.01	.00	3.9
31	5.6	---	e5.8	e5.7	---	e5.9	---	7.2	---	.01	.00	---
TOTAL	171.8	176.1	174.8	179.2	158.8	176.4	227.4	227.1	119.63	42.83	0.10	48.80
MEAN	5.54	5.87	5.64	5.78	5.67	5.69	7.58	7.33	3.99	1.38	.003	1.63
MAX	7.2	6.6	5.8	5.9	5.7	5.9	8.6	9.4	8.5	6.6	.01	7.8
MIN	4.7	4.9	5.6	5.7	5.6	5.6	5.9	6.4	.00	.00	.00	.00
AC-FT	341	349	347	355	315	350	451	450	237	85	.2	97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	7.00	8.26	8.44	8.67	9.31	9.61	9.37	7.98	5.90	2.90	2.49	4.37
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	15.2
(WY)	1943	1947	1946	1942	1960	1952	1944	1944	1962	1948	1950	1951	1951
MIN	2.84	5.28	4.93	5.39	5.50	5.69	3.92	2.11	.000	.000	.001	.92	.92
(WY)	1965	1984	1984	1963	1993	1995	1989	1965	1994	1978	1976	1974	1974

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

SANNUAL TOTAL	1680.02	1702.96	
ANNUAL MEAN	4.60	4.67	7.01
HIGHEST ANNUAL MEAN			10.9
LOWEST ANNUAL MEAN			4.51
HIGHEST DAILY MEAN	10	9.4	90
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW (STAGE)		10 (3.51)	140
INSTANTANEOUS PEAK STAGE		*4.88	**5.93
ANNUAL RUNOFF (AC-FT)	3330	3380	5080
10 PERCENT EXCEEDS	7.5	7.3	11
50 PERCENT EXCEEDS	5.6	5.7	7.7
90 PERCENT EXCEEDS	.00	.01	.30

e Estimated.

* Backwater from weeds.

** Backwater from ice.

06824000 ROCK CREEK AT PARKS, NE

LOCATION.--Lat 40°02'30", long 101°43'40", in SW1/4 NE1/4 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 mi², of which about 20 mi² 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 good 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	9.8	e10	e11	e10	e9.6	12	14	24	8.0	8.3	7.6
2	8.6	10	e10	e11	e10	e9.7	12	13	17	9.1	8.6	7.6
3	8.9	9.8	e10	e11	e10	e9.8	11	15	16	17	8.9	7.5
4	10	11	e10	e11	e10	e9.9	11	14	16	12	8.8	7.4
5	10	11	e10	e11	e10	e9.9	11	13	15	12	8.7	7.4
6	12	10	e10	e11	e10	e9.9	10	13	13	11	8.6	6.9
7	10	10	e10	e11	e10	e9.9	10	12	12	10	8.4	6.3
8	9.1	9.9	e10	e11	e10	e9.9	10	12	14	9.3	8.1	6.8
9	8.9	9.8	e10	e11	e10	e9.9	10	11	13	8.5	8.3	7.5
10	9.0	10	e10	e11	e10	e9.9	11	10	13	8.0	8.2	8.0
11	8.9	10	e10	e11	e9.8	e10	11	9.9	12	7.7	7.9	8.1
12	8.7	9.2	e10	e11	e9.7	e10	11	10	11	7.2	8.0	7.5
13	8.6	8.9	e10	e11	e9.6	e10	11	10	10	6.7	8.2	7.4
14	8.9	8.7	e10	e11	e9.5	e10	11	9.5	10	6.9	8.1	7.6
15	11	8.9	e10	e11	e9.4	e10	11	9.5	9.9	9.2	8.2	7.4
16	11	9.2	e10	e11	e9.4	e10	11	9.6	10	8.6	7.9	7.4
17	12	9.4	e10	e11	e9.4	e10	13	10	10	9.6	7.9	7.4
18	11	11	e10	e11	e9.4	e10	14	9.8	9.4	15	7.6	7.4
19	11	11	e10	e11	e9.4	e10	12	9.4	8.9	11	7.4	7.2
20	11	13	e10	e11	e9.4	e10	15	9.1	8.4	13	7.4	7.7
21	10	13	e10	e11	e9.4	e10	14	9.5	8.0	14	7.4	13
22	9.7	e12	e10	e11	e9.4	e10	13	11	8.0	12	7.8	11
23	9.7	e12	e11	e10	e9.5	e10	12	11	7.7	11	7.9	10
24	9.8	e12	e11	e10	e9.5	e11	12	10	7.9	10	7.4	9.9
25	9.6	e11	e11	e10	e9.5	e11	12	10	7.8	10	7.4	9.7
26	9.4	e11	e11	e10	e9.6	12	12	11	7.4	9.7	8.1	9.6
27	9.6	e11	e11	e10	e9.6	21	12	27	7.4	9.5	8.1	9.6
28	9.6	e11	e11	e10	e9.6	12	11	26	8.0	9.3	8.1	9.6
29	9.4	e11	e11	e10	---	11	11	20	7.3	9.1	7.7	9.6
30	9.7	e10	e11	e10	---	12	13	19	7.5	8.5	7.6	9.3
31	9.6	---	e11	e10	---	12	---	29	---	8.5	7.4	---
TOTAL	302.8	314.6	319	332	271.1	330.4	350	407.3	329.6	311.4	248.4	249.4
MEAN	9.77	10.5	10.3	10.7	9.68	10.7	11.7	13.1	11.0	10.0	8.01	8.31
MAX	12	13	11	11	10	21	15	29	24	17	8.9	13
MIN	8.1	8.7	10	10	9.4	9.6	10	9.1	7.3	6.7	7.4	6.3
AC-FT	601	624	633	659	538	655	694	808	654	618	493	495

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	12.7	13.7	13.6	13.7	13.9	14.1	14.0	14.0	13.4	12.2	11.6	12.0
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	9.08	9.72	10.4	9.68	7.74	10.6	8.31	8.83	8.45	7.94	8.31
(WY)	1993	1993	1984	1985	1995	1985	1987	1994	1994	1983	1994	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	3637.1	3766.0	
ANNUAL MEAN	9.96	10.3	13.2
HIGHEST ANNUAL MEAN			15.8
LOWEST ANNUAL MEAN			10.1
HIGHEST DAILY MEAN	50 Sep 7	29 May 31	111 Jul 6 1965
LOWEST DAILY MEAN	6.3 Jun 1	6.3 Sep 7	2.6 Nov 19 1975
ANNUAL SEVEN-DAY MINIMUM	6.8 Aug 20	7.1 Sep 3	3.1 Feb 17 1943
INSTANTANEOUS PEAK FLOW (STAGE)		62 (2.75) May 31	493 Jul 5 1965
INSTANTANEOUS PEAK STAGE		*2.85 Dec 10	6.00 Jul 5 1965
ANNUAL RUNOFF (AC-FT)	7210	7470	9590
10 PERCENT EXCEEDS	12	12	16
50 PERCENT EXCEEDS	10	10	13
90 PERCENT EXCEEDS	7.8	7.8	9.9

e Estimated.

* Backwater from ice.

06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE

LOCATION.--Lat 40°00'34", long 101°32'32", in NE1/4 SW1/4 sec.31, T.1 N., R.37 W., Dundy County, Hydrologic Unit 10250003, on right bank 200 ft downstream from 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 mi², approximately, of which about 2,190 mi² 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.

GAGE.--Water-stage recorder. Datum of gage is 2,990.91 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 2.00 ft higher and Sept. 29, 1966, to Mar. 7, 1968, at site 300 ft upstream at datum 2.00 ft higher. Mar. 8, 1968, to May 29, 1991, at site 300 ft upstream at same datum.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	13	e10	16	13	33	61	71	29	34	e.70
2	.00	.00	8.8	e9.4	15	e13	34	60	56	30	30	e.60
3	.00	.00	7.8	e8.8	14	e13	32	58	48	28	27	e.40
4	.00	.00	7.5	e8.4	14	e14	29	59	48	29	24	e.30
5	.00	.00	e7.0	e8.0	14	14	27	50	45	31	22	e.20
6	.00	.00	e6.9	e7.5	14	15	25	48	41	28	20	e.00
7	.00	.00	e6.9	e7.2	13	e15	24	46	36	25	19	e.00
8	.00	.00	e6.8	e7.0	14	e16	23	41	39	22	18	e.00
9	.00	.00	e6.9	e6.8	14	e17	22	38	42	21	17	e.00
10	.00	.02	e7.0	e6.6	14	17	24	37	41	20	15	e.00
11	.00	.21	7.4	e6.5	e14	17	24	33	39	19	14	e.00
12	.00	.89	e7.6	e6.5	e14	16	26	32	39	18	12	e.00
13	.00	1.8	e7.8	e6.5	e14	15	28	32	39	17	12	e.00
14	.00	2.1	e8.0	e6.5	e15	13	29	27	40	16	11	e.00
15	.00	2.8	e8.5	e6.5	e15	14	27	25	39	18	11	e.00
16	.00	4.0	e9.0	e6.6	e16	15	26	24	37	23	10	e.00
17	.00	4.8	e9.5	e6.8	e16	16	27	28	35	26	9.4	e.00
18	.00	4.3	e10	e6.9	e17	17	34	30	34	47	7.8	e.00
19	.00	4.9	e10	e7.0	e17	20	37	28	34	59	6.9	e.00
20	.00	5.8	e10	e7.2	18	19	47	27	33	244	7.0	e.00
21	.00	6.4	e11	e7.6	18	19	46	27	31	174	6.0	e.00
22	.00	7.1	e11	e8.2	18	19	39	27	29	185	5.2	e.00
23	.00	6.8	e12	e9.0	18	17	35	33	28	132	4.6	e.00
24	.00	8.7	e12	e10	18	18	31	35	30	95	3.2	e.00
25	.00	8.7	12	e12	19	17	28	32	31	77	2.5	e.00
26	.00	8.0	12	e14	18	22	31	37	30	69	2.5	e.00
27	.00	6.8	12	16	17	17	35	76	28	61	2.5	e.00
28	.00	6.1	12	18	16	25	34	117	29	55	1.5	e.00
29	.00	10	12	18	---	32	30	86	27	51	1.1	e.00
30	.00	10	e11	17	---	33	40	69	26	45	1.0	e.00
31	.00	---	11	16	---	33	---	75	---	37	e.90	---
TOTAL	0.00	110.22	294.4	292.5	440	561	927	1398	1125	1731	358.10	2.20
MEAN	.000	3.67	9.50	9.44	15.7	18.1	30.9	45.1	37.5	55.8	11.6	.073
MAX	.00	10	13	18	19	33	47	117	71	244	34	.70
MIN	.00	.00	6.8	6.5	13	13	22	24	26	16	.90	.00
AC-FT	.00	219	584	580	873	1110	1840	2770	2230	3430	710	4.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	17.3	22.4	21.4	23.9	41.0	54.3	60.0	76.0	77.5	62.0	37.0	25.0
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	5853.89		7239.42			
ANNUAL MEAN	16.0		19.8		43.1	
HIGHEST ANNUAL MEAN					121	1951
LOWEST ANNUAL MEAN					9.79	1953
HIGHEST DAILY MEAN	66	Apr 13	244	Jul 20	6220	Aug 16 1958
LOWEST DAILY MEAN	.00	Jul 29	.00	Oct 1	.00	Jul 3 1938
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 1	.00	Oct 1	.00	Aug 1 1938
INSTANTANEOUS PEAK FLOW			323	Jul 20	19600	Aug 16 1958
INSTANTANEOUS PEAK STAGE			2.92	Jul 20	*8.70	Aug 16 1958
ANNUAL RUNOFF (AC-FT)	11610		14360		31240	
10 PERCENT EXCEEDS	41		40		90	
50 PERCENT EXCEEDS	9.5		14		20	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.

* May have been higher during flood of June 24, 1945, site and datum then in use.

KANSAS RIVER BASIN

169

06828500 REPUBLICAN RIVER AT STRATTON, NE

LOCATION.--Lat 40°08'28", long 101°13'42", in SW1/4 NW1/4 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 mi², approximately, of which about 3,690 mi² 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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	76	75	e58	e45	88	160	184	363	61	55	.00
2	.00	74	85	e53	e45	70	156	220	400	62	48	.00
3	.00	71	87	e50	e45	70	149	225	489	60	42	.00
4	.00	73	84	e45	e44	82	145	207	347	112	33	.00
5	.00	70	77	e44	e43	93	135	190	314	109	29	.00
6	10	68	58	e42	e42	105	134	182	318	85	22	.00
7	15	67	59	e41	e41	336	132	175	339	71	17	.00
8	16	63	e55	e41	e40	180	126	171	285	67	12	.00
9	19	61	e54	e41	e39	150	127	159	268	58	9.9	.00
10	22	60	e54	e40	e39	130	136	158	299	49	8.6	.00
11	21	59	e54	e40	e39	136	149	167	309	44	4.0	.00
12	20	58	e54	e40	e40	135	159	157	288	33	.77	.00
13	18	58	e55	e40	e40	122	175	182	233	25	.14	.00
14	19	53	e56	e40	e41	110	178	179	189	21	.13	.00
15	26	53	e56	e41	e42	104	160	168	159	22	.10	.00
16	30	53	e57	e41	e43	104	149	155	142	31	.06	.00
17	39	55	e58	e41	e44	102	147	152	127	149	.00	.00
18	52	55	e60	e42	e45	107	206	162	116	127	.00	.00
19	54	57	e62	e42	e47	114	226	162	103	327	.00	.00
20	56	72	e63	e43	e49	118	254	168	92	418	.00	.00
21	57	82	e64	e43	e52	111	266	172	86	459	.00	.00
22	59	79	e65	e43	e58	109	265	172	75	408	.00	.00
23	61	76	e67	e44	e64	105	240	206	66	405	.00	.00
24	61	74	e68	e44	e74	101	216	205	96	224	.00	.00
25	65	73	e69	e44	83	99	186	205	90	170	.00	.00
26	69	76	e70	e44	87	123	196	225	79	141	.00	.00
27	74	80	e70	e44	87	136	201	283	75	118	.00	.00
28	81	77	e70	e44	86	131	192	442	66	96	.00	.00
29	79	71	e68	e44	---	162	181	457	62	77	.00	.00
30	80	70	e66	e45	---	171	169	417	58	59	.00	.00
31	79	---	e62	e45	---	165	---	374	---	50	.00	---
TOTAL	1182.00	2014	2002	1349	1444	3869	5315	6681	5933	4138	281.70	0.00
MEAN	38.1	67.1	64.6	43.5	51.6	125	177	216	198	133	9.09	.000
MAX	81	82	87	58	87	336	266	457	489	459	55	.00
MIN	.00	53	54	40	39	70	126	152	58	21	.00	.00
AC-FT	2340	3990	3970	2680	2860	7670	10540	13250	11770	8210	559	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	50.9	92.7	93.0	104	148	187	179	186	154	96.3	70.7	55.0
MAX	285	218	157	159	225	788	388	766	571	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	103	75.6	37.9	26.5	.000	.000	.000
(WY)	1977	1979	1979	1979	1995	1989	1972	1992	1994	1954	1952	1952

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL	24611.22	34208.70	
ANNUAL MEAN	67.4	93.7	
MEDIAN OF ANNUAL MEANS			117
HIGHEST ANNUAL MEAN			105
LOWEST ANNUAL MEAN			304
HIGHEST DAILY MEAN	270	489	61.1
LOWEST DAILY MEAN	.00	.00	8180
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1250	26800
INSTANTANEOUS PEAK STAGE		8.12	9.34
ANNUAL RUNOFF (AC-FT)	48820	67850	84660
10 PERCENT EXCEEDS	149	206	225
50 PERCENT EXCEEDS	62	64	90
90 PERCENT EXCEEDS	.00	.00	.00

KANSAS RIVER BASIN

06832000 ENDERS RESERVOIR NEAR ENDERS, NE

LOCATION.--Lat 40°25'05", long 101°30'55", in NE1/4 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 mi², approximately, of which about 790 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder. 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.

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, 32,520 acre-ft June 27, elevation, 3,104.56 ft; minimum, 18,270 acre-ft Aug. 29, elevation, 3,092.58 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

3,085	11,770	3,100	26,540
3,090	15,830	3,110	40,660

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20690	22160	23560	24760	26160	27170	28540	30100	31710	32400	25200	18420
2	20700	22160	23600	24770	26210	27030	28630	30140	31820	32470	25010	18440
3	20750	22220	23640	24790	26230	27060	28680	30200	31860	32400	24800	18490
4	20820	22280	23620	24810	26290	27130	28680	30270	31930	32340	24600	18510
5	21040	22320	23620	24880	26290	27160	28780	30370	32030	32260	24360	18650
6	21090	22360	23680	24900	26290	27190	28820	30410	32110	32200	24100	18700
7	21060	22410	23730	24990	26300	27220	28900	30480	32050	32140	24980	18680
8	21090	22430	23740	25050	26320	27280	28890	30550	32030	32050	23500	18690
9	21150	22460	23790	25120	26380	27360	28850	30520	32070	31960	23200	18710
10	21190	22500	23830	25190	26390	27410	28930	30560	32080	31670	22970	18740
11	21210	22670	23890	25230	26390	27470	28980	30610	32110	31550	22760	18840
12	21240	22840	23930	25270	26390	27560	29050	30720	32190	31160	22580	18870
13	21240	22850	23960	25310	26390	27570	29110	30730	32260	30690	22330	18920
14	21280	22870	23990	25360	26480	27610	29190	30770	32330	30120	22060	18940
15	21420	22890	24050	25430	26540	27640	29210	30870	32360	29860	21810	18990
16	21510	22950	24100	25430	26620	27690	29230	30910	32330	29620	21580	18980
17	21560	22990	24160	25430	26680	27760	29340	30860	32300	29250	21400	18990
18	21630	22970	24200	25460	26730	27810	29410	30920	32300	28950	21170	19020
19	21670	23020	24300	25530	26790	27840	29500	31000	32300	28680	20890	18980
20	21720	23110	24300	25570	26850	27890	29580	30980	32340	28440	20630	18990
21	21740	23160	24350	25600	26890	27970	29630	31070	32340	28230	20340	19030
22	21760	23180	24380	25630	26970	28030	29700	31030	32340	27990	20020	19080
23	21800	23230	24420	25650	26970	27990	29770	31060	32430	27760	19730	19140
24	21810	23270	24480	25690	27010	28020	29780	31070	32430	27550	19480	19180
25	21840	23300	24550	25740	27060	28030	29850	31120	32440	27330	19220	19220
26	21900	23350	24580	25820	27090	28250	29870	31210	32480	27090	18940	19280
27	21970	23400	24600	25850	27020	28260	29910	31300	32510	26830	18700	19330
28	22020	23440	24640	25900	27030	28270	30000	31340	32440	26530	18400	19350
29	22030	23440	24660	25960	---	28350	29980	31440	32410	26220	18350	19440
30	22060	23490	24680	26020	---	28430	30080	31490	32430	25850	18370	19480
31	22130	---	24720	26080	---	28490	---	31600	---	25470	18390	---
MEAN	21460	22860	24120	25390	26600	27710	29300	30830	32230	29580	21610	18940
MAX	22130	23490	24720	26080	27090	28490	30080	31600	32510	32470	25200	19480
MIN	20690	22160	23560	24760	26160	27030	28540	30100	31710	25470	18350	18420
(*)	3096.26	3097.46	3098.50	3099.63	3100.39	3101.54	3102.76	3103.89	3104.49	3099.13	3092.70	3093.78
(**)	+1410	+1360	+1230	+1360	+950	+1460	+1590	+1520	+830	-6960	-7080	+1090
CAL YR 1994	MEAN	26040	MAX	32480	MIN	19770	(**)	-1320				
WTR YR 1995	MEAN	25880	MAX	32510	MIN	18350	(**)	-1240				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

KANSAS RIVER BASIN

171

06834000 FRENCHMAN CREEK AT PALISADE, NE

LOCATION.--Lat 40°21'12", long 101°07'35", in SW1/4 SE1/4 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 mi², approximately, of which about 1,110 mi² 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).

CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	28	e26	26	e22	35	33	28	31	165	41
2	19	21	26	e23	28	e23	35	31	26	31	150	36
3	20	21	26	e22	28	e23	33	33	28	30	134	33
4	20	21	25	e20	29	28	31	31	35	34	126	30
5	22	22	e25	e20	31	24	30	29	25	60	122	28
6	24	22	e24	e20	31	e22	30	31	30	67	120	36
7	25	22	e22	e21	31	e20	28	31	31	64	137	32
8	22	22	e24	e22	40	e21	27	30	34	64	147	27
9	21	21	e22	e24	34	e22	27	29	36	61	158	26
10	21	21	e24	e25	25	e24	28	28	35	69	152	25
11	21	22	e25	e25	e23	30	35	26	34	74	142	26
12	20	22	e27	e25	e21	29	29	27	32	89	123	25
13	20	23	e25	e27	e20	28	28	28	31	124	115	24
14	20	21	e27	e28	e22	27	27	25	32	170	116	23
15	22	21	e28	e29	e24	26	26	23	33	204	118	22
16	22	21	e28	e28	e26	26	26	21	33	213	131	21
17	24	22	e28	e27	e28	25	27	23	36	213	126	20
18	23	23	e30	e28	31	26	36	21	35	216	114	20
19	22	23	e28	30	28	25	35	20	32	200	109	21
20	23	25	e29	29	27	24	35	22	31	184	113	22
21	22	25	e29	27	27	24	34	23	31	176	138	24
22	22	24	e29	27	27	26	31	25	30	162	143	24
23	22	25	29	28	27	29	30	26	89	156	150	23
24	22	25	28	30	26	29	30	25	213	139	139	22
25	22	24	28	30	27	31	30	24	80	134	130	22
26	22	24	28	28	27	38	31	29	43	143	129	22
27	22	26	28	29	26	42	30	31	37	163	132	21
28	22	29	27	29	25	41	29	42	35	149	131	21
29	21	30	27	28	---	35	28	32	33	149	143	21
30	20	32	e26	27	---	34	30	30	32	154	104	25
31	20	---	e26	27	---	34	---	29	---	169	52	---
TOTAL	666	701	826	809	765	858	911	858	1260	3892	4009	763
MEAN	21.5	23.4	26.6	26.1	27.3	27.7	30.4	27.7	42.0	126	129	25.4
MAX	25	32	30	30	40	42	36	42	213	216	165	41
MIN	18	21	22	20	20	20	26	20	25	30	52	20
AC-FT	1320	1390	1640	1600	1520	1700	1810	1700	2500	7720	7950	1510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

	41.4	36.4	36.5	38.4	44.2	49.7	49.1	55.4	74.0	189	179	73.2
MEAN	41.4	36.4	36.5	38.4	44.2	49.7	49.1	55.4	74.0	189	179	73.2
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	26.7	21.6	20.4	19.5	67.0	38.5	8.32
(WY)	1991	1990	1990	1979	1993	1991	1972	1992	1992	1951	1990	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL	16015	16318	
ANNUAL MEAN	43.9	44.7	72.8
HIGHEST ANNUAL MEAN			115
LOWEST ANNUAL MEAN			37.9
HIGHEST DAILY MEAN	382	216	2090
LOWEST DAILY MEAN	17	18	5.4
ANNUAL SEVEN-DAY MINIMUM	17	21	5.8
INSTANTANEOUS PEAK FLOW		426	5560
INSTANTANEOUS PEAK STAGE		6.49	*8.79
ANNUAL RUNOFF (AC-FT)	31770	32370	52760
10 PERCENT EXCEEDS	118	129	170
50 PERCENT EXCEEDS	28	28	40
90 PERCENT EXCEEDS	21	21	23

e Estimated.

* Site and datum then in use.

KANSAS RIVER BASIN

06835500 FRENCHMAN CREEK AT CULBERTSON, NE

LOCATION.--Lat 40°14'05", long 100°52'40", in SW1/4 SE1/4 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 mi², of which about 1,590 mi² 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.

REMARKS.--Records good. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000). Principal diversion is by Culbertson Canal, 20,800 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	51	60	62	71	67	72	80	66	40	9.5	.84
2	39	52	61	43	72	66	69	71	64	38	8.9	.83
3	37	52	61	50	69	66	72	61	63	35	8.3	.47
4	34	53	61	51	75	73	69	72	67	33	7.4	.46
5	39	54	61	50	72	71	74	56	68	42	6.5	.59
6	42	54	61	57	77	70	68	59	68	41	6.1	12
7	48	55	55	53	77	60	67	66	65	25	6.1	31
8	48	56	54	57	73	59	65	66	62	21	6.4	39
9	47	55	63	58	73	66	64	67	63	20	5.1	24
10	43	55	52	64	75	81	66	67	64	20	4.2	25
11	36	55	54	66	73	74	65	63	62	19	3.5	23
12	36	56	58	67	69	73	67	45	60	17	3.3	18
13	39	56	61	72	61	73	69	47	55	16	3.4	18
14	50	56	62	74	62	76	72	49	52	16	2.1	15
15	43	55	66	73	68	67	72	47	48	19	2.0	14
16	44	55	64	71	75	70	72	45	42	23	1.9	13
17	47	56	65	77	80	71	72	43	36	23	1.7	14
18	49	55	66	72	82	68	79	42	34	27	1.6	13
19	51	54	68	73	77	72	80	41	32	29	1.5	17
20	52	58	71	75	73	68	82	50	30	27	1.5	16
21	51	61	70	69	76	64	86	45	30	27	1.4	16
22	50	62	68	70	71	67	85	45	29	23	4.1	18
23	49	60	71	69	76	64	85	51	28	19	1.6	27
24	49	60	69	68	73	62	81	48	53	18	2.0	25
25	48	59	70	67	75	63	79	47	113	17	1.3	26
26	49	61	68	70	73	64	79	56	151	14	1.2	18
27	50	62	68	73	70	68	77	62	79	14	1.0	24
28	51	60	69	72	69	69	75	68	56	12	.59	22
29	51	58	66	75	---	66	74	67	47	10	.49	23
30	51	57	67	73	---	69	75	66	42	9.0	.44	28
31	51	---	66	72	---	72	---	65	---	9.2	.54	---
TOTAL	1416	1693	1976	2043	2037	2119	2212	1757	1729	703.2	105.66	522.19
MEAN	45.7	56.4	63.7	65.9	72.7	68.4	73.7	56.7	57.6	22.7	3.41	17.4
MAX	52	62	71	77	82	81	86	80	151	42	9.5	39
MIN	34	51	52	43	61	59	64	41	28	9.0	.44	.46
AC-FT	2810	3360	3920	4050	4040	4200	4390	3490	3430	1390	210	1040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

	77.6	95.5	102	102	123	133	105	90.5	109	60.2	38.7	60.2
MEAN	77.6	95.5	102	102	123	133	105	90.5	109	60.2	38.7	60.2
MAX	204	188	207	183	224	543	290	522	384	269	258	245
(WY)	1947	1947	1941	1948	1949	1960	1960	1935	1935	1962	1962	1951
MIN	22.5	42.8	49.2	46.3	64.6	62.3	31.2	18.0	13.9	2.90	2.25	1.70
(WY)	1937	1940	1984	1979	1989	1991	1972	1986	1994	1990	1986	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1935 - 1995

ANNUAL TOTAL	17492.3	18313.05	
ANNUAL MEAN	47.9	50.2	89.8
HIGHEST ANNUAL MEAN			165
LOWEST ANNUAL MEAN			35.7
HIGHEST DAILY MEAN	218	151	5500
LOWEST DAILY MEAN	2.7	.44	.00
ANNUAL SEVEN-DAY MINIMUM	3.3	.58	.26
INSTANTANEOUS PEAK FLOW		172	15000
INSTANTANEOUS PEAK STAGE		4.40	*14.80
ANNUAL RUNOFF (AC-FT)	34700	36320	65050
10 PERCENT EXCEEDS	81	73	170
50 PERCENT EXCEEDS	51	57	75
90 PERCENT EXCEEDS	9.4	9.1	23

* From floodmark.

06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE

LOCATION.--Lat 40°08'45", long 100°40'22", in SW1/4 SE1/4 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.

DRAINAGE AREA.--361 mi², of which about 351 mi² 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.

REMARKS.--Records good. Natural flow affected by waste from Meeker-Driftwood Canal and by irrigation development above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	4.5	4.2	6.7	5.6	4.3	4.9	8.5	6.6	5.7	12	9.8
2	3.6	4.5	4.3	4.6	5.6	5.2	4.9	7.2	6.3	6.5	12	8.1
3	3.7	4.4	4.2	4.8	5.4	5.4	4.9	7.0	6.3	6.3	11	8.5
4	3.9	4.5	4.1	4.0	5.6	4.4	4.7	6.9	6.9	8.5	10	8.3
5	4.6	4.6	4.1	5.0	5.7	4.4	4.5	6.8	6.5	9.3	13	6.6
6	4.6	4.4	5.1	4.7	5.8	4.4	4.5	7.3	6.3	6.2	14	11
7	4.3	4.4	5.0	5.5	5.8	6.3	4.5	7.7	5.9	4.7	13	6.5
8	3.8	4.5	4.0	4.5	5.7	6.2	4.5	7.7	5.8	4.3	8.6	5.8
9	3.8	4.4	3.9	4.5	5.8	5.2	4.6	7.4	6.1	4.1	7.0	6.0
10	3.8	4.3	3.2	5.0	5.8	4.5	4.6	7.0	6.0	4.1	7.9	5.8
11	3.8	4.3	3.5	5.2	5.7	4.6	4.7	6.5	5.7	3.9	8.7	8.8
12	4.1	4.4	3.2	5.3	5.2	4.3	4.7	6.3	5.7	3.7	11	7.0
13	4.0	4.5	3.7	5.4	5.5	4.3	4.7	6.3	5.4	4.6	9.3	5.5
14	4.0	4.5	3.4	5.3	4.5	4.3	4.7	5.7	4.9	5.7	7.2	6.7
15	4.5	4.2	4.0	5.4	4.3	4.3	4.5	5.4	4.6	7.1	6.8	7.2
16	5.2	4.0	3.3	5.4	4.4	4.3	4.5	5.3	4.6	7.0	5.7	6.4
17	5.3	4.1	4.0	5.3	4.3	4.2	4.8	5.7	4.2	8.4	7.8	4.8
18	5.6	3.9	3.7	5.1	4.5	4.3	7.8	6.1	4.0	9.6	9.9	4.3
19	4.3	3.9	3.9	5.2	4.5	4.3	6.9	5.8	3.9	10	11	4.2
20	4.1	4.8	4.2	5.4	4.5	4.4	6.6	8.2	3.8	10	13	4.4
21	4.1	6.1	4.1	5.2	4.6	4.4	6.4	7.0	3.9	17	13	5.5
22	4.2	5.1	3.6	5.2	4.6	4.4	5.9	6.6	13	12	12	5.5
23	4.3	4.8	3.7	5.2	4.3	4.2	5.9	23	19	9.0	11	5.0
24	4.4	4.3	3.9	5.2	4.3	4.1	5.7	12	7.8	9.1	9.5	4.8
25	4.6	4.3	4.2	5.2	4.3	4.1	5.7	8.6	7.3	7.2	9.8	4.6
26	4.8	4.3	3.6	5.2	4.4	5.4	5.7	7.3	5.2	7.0	8.4	4.6
27	4.9	4.4	3.9	5.6	4.3	6.1	5.7	8.9	4.6	7.8	8.6	4.6
28	5.2	4.2	3.6	5.8	4.3	6.0	5.3	8.2	4.5	7.6	11	4.5
29	4.6	4.0	3.8	5.6	---	5.6	5.3	7.4	4.6	9.0	17	4.6
30	4.6	4.1	3.9	5.4	---	5.3	6.2	6.8	4.9	11	20	5.0
31	4.5	---	4.2	5.8	---	5.0	---	6.8	---	15	14	---
TOTAL	134.7	132.7	121.5	161.7	139.3	148.2	158.3	237.4	184.3	241.4	333.2	184.4
MEAN	4.35	4.42	3.92	5.22	4.97	4.78	5.28	7.66	6.14	7.79	10.7	6.15
MAX	5.6	6.1	5.1	6.7	5.8	6.3	7.8	23	19	17	20	11
MIN	3.5	3.9	3.2	4.0	4.3	4.1	4.5	5.3	3.8	3.7	5.7	4.2
AC-FT	267	263	241	321	276	294	314	471	366	479	661	366

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	7.32	3.49	3.44	3.44	5.83	8.17	4.21	10.1	18.5	21.0	17.4	13.9
MAX	137	7.22	7.44	7.96	31.4	209	13.3	112	85.8	100	156	302
(WY)	1947	1974	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	2207.9	2177.1	
ANNUAL MEAN	6.05	5.96	9.78
MEDIAN OF ANNUAL MEANS			8.07
HIGHEST ANNUAL MEAN			35.0
LOWEST ANNUAL MEAN			1.12
HIGHEST DAILY MEAN	91 Aug 11	23 May 23	3950 Aug 7 1950
LOWEST DAILY MEAN	3.2 Dec 10	3.2 Dec 10	.00 Apr 25 1946
ANNUAL SEVEN-DAY MINIMUM	3.5 Dec 10	3.5 Dec 10	.00 Jun 12 1946
INSTANTANEOUS PEAK FLOW		43 Jun 23	4740 Aug 7 1950
INSTANTANEOUS PEAK STAGE		4.53 Jun 23	25.43 Aug 7 1950
ANNUAL RUNOFF (AC-FT)	4380	4320	7090
10 PERCENT EXCEEDS	8.4	9.0	11
50 PERCENT EXCEEDS	4.8	5.2	4.7
90 PERCENT EXCEEDS	3.7	4.0	.20

KANSAS RIVER BASIN

06837000 REPUBLICAN RIVER AT MCCOOK, NE

LOCATION.--Lat 40°11'15", long 100°37'05", in SW1/4 NE1/4 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 mi², of which about 6,220 mi² 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.

REMARKS.--Records fair except for periods of estimated record, which are poor. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	73	79	e72	80	72	101	148	127	84	129	177
2	42	74	79	e67	79	70	95	132	123	85	124	176
3	41	73	79	e65	77	77	101	129	119	83	122	173
4	46	75	78	e66	73	81	101	135	131	106	114	173
5	55	75	79	e68	72	85	98	126	128	117	116	169
6	63	77	e80	e70	72	e88	93	130	124	103	120	188
7	61	77	e82	e74	72	91	92	147	118	88	119	191
8	62	77	e83	e82	71	e92	90	142	122	71	115	198
9	75	74	e84	e80	69	e94	87	132	122	61	109	164
10	75	71	85	e83	69	96	92	124	119	59	110	162
11	75	71	86	e83	70	93	90	119	115	95	114	176
12	74	68	89	e84	73	90	92	110	112	137	126	157
13	72	68	e92	e85	73	90	95	109	109	150	130	130
14	72	67	e95	e85	73	91	96	106	103	154	126	111
15	73	69	e98	e84	73	91	93	100	97	162	132	75
16	72	71	e99	e84	e73	94	92	98	88	166	131	58
17	71	71	e100	e83	e74	92	97	98	78	169	130	50
18	72	71	e100	e83	e76	93	136	95	70	172	131	48
19	71	72	e100	e82	e78	95	125	93	66	164	140	42
20	69	80	e100	e82	80	100	130	113	64	164	173	43
21	69	85	e99	e81	83	93	129	108	61	173	182	54
22	69	81	e98	81	82	90	123	104	63	166	180	48
23	67	81	96	80	80	91	122	148	85	149	183	48
24	67	78	93	79	80	98	117	132	80	144	177	50
25	71	76	91	77	81	100	115	111	128	142	176	47
26	73	74	90	76	76	110	118	122	189	140	180	46
27	73	79	89	e76	74	111	113	161	152	141	184	39
28	74	79	88	e77	74	105	109	161	104	137	179	42
29	75	79	e86	e78	---	102	107	139	88	133	180	45
30	75	81	84	e79	---	104	127	132	84	128	184	48
31	74	---	78	e80	---	103	---	133	---	130	183	---
TOTAL	2064	2247	2759	2426	2107	2882	3176	3837	3169	3973	4499	3128
MEAN	66.6	74.9	89.0	78.3	75.2	93.0	106	124	106	128	145	104
MAX	75	85	100	85	83	111	136	161	189	173	184	198
MIN	36	67	78	65	69	70	87	93	61	59	109	39
AC-FT	4090	4460	5470	4810	4180	5720	6300	7610	6290	7880	8920	6200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

MEAN	103	115	112	115	156	189	172	188	200	225	182	103
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	63.4	59.7	75.2	88.0	70.6	22.6	39.8	104	66.1	6.03
(WY)	1992	1991	1993	1979	1995	1991	1989	1956	1992	1980	1978	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1955 - 1995

ANNUAL TOTAL	34153	36267	155
ANNUAL MEAN	93.6	99.4	383
HIGHEST ANNUAL MEAN			70.1
LOWEST ANNUAL MEAN			5020
HIGHEST DAILY MEAN	335	Jul 15	198
LOWEST DAILY MEAN	23	Jun 7	36
			Sep 8
			Oct 1
ANNUAL SEVEN-DAY MINIMUM	26	Sep 14	45
INSTANTANEOUS PEAK FLOW (STAGE)			225 (4.39)
INSTANTANEOUS PEAK STAGE			4.48
ANNUAL RUNOFF (AC-FT)	67740	71940	112300
10 PERCENT EXCEEDS	146	153	279
50 PERCENT EXCEEDS	90	90	112
90 PERCENT EXCEEDS	37	68	60

e Estimated

06838000 RED WILLOW CREEK NEAR RED WILLOW, NE

LOCATION.--Lat 40°14'10", long 100°30'00", in NE1/4 NE1/4 sec.17, T.3 N., R.28 W., Red Willow County, Hydrologic Unit 10250007, at temporary site during bridge construction on left bank 30 ft below U.S. Highways 6 and 34, 0.8 mi north of Red Willow and 2.1 mi upstream from mouth.

DRAINAGE AREA.--820 mi², of which about 405 mi² 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.

REMARKS.--Records fair except for periods of estimated record, which are 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	10	6.0	e6.8	11	10	7.3	15	7.9	12	3.2	.83
2	5.3	9.5	6.2	e7.0	11	e9.9	7.7	9.8	7.5	14	4.1	.00
3	5.2	8.0	6.1	e7.4	13	e9.8	7.7	12	7.6	14	4.2	.00
4	7.1	7.8	5.8	7.6	10	e9.7	7.6	12	9.9	15	10	.00
5	8.1	7.4	5.5	e7.7	10	e9.6	8.4	9.9	9.0	21	5.6	.88
6	11	6.9	e5.3	e7.4	e10	e9.5	8.9	14	8.5	14	1.2	7.1
7	8.1	7.6	e5.0	e6.8	e9.9	9.4	9.3	15	8.3	12	.40	7.8
8	6.1	7.4	e4.8	4.6	9.8	e9.2	9.4	12	9.8	10	4.7	8.2
9	6.0	7.3	4.7	e6.8	e9.6	9.1	9.5	9.5	8.3	11	1.2	1.5
10	6.3	8.4	4.7	e11	e9.4	11	10	8.8	7.5	14	2.1	.23
11	16	7.5	e5.2	e11	e9.2	15	11	8.5	6.5	7.8	9.6	.88
12	7.8	6.8	e6.0	12	8.8	9.3	9.5	8.3	7.3	6.5	4.5	1.2
13	6.7	7.0	6.6	e12	e11	9.5	9.5	9.6	7.6	11	2.0	.51
14	6.2	6.5	e7.3	12	e12	8.8	10	7.9	8.9	15	2.2	2.0
15	7.6	6.7	e8.0	e12	12	8.4	11	8.3	6.8	7.5	4.4	9.1
16	9.9	7.3	8.7	e12	e12	9.5	11	8.7	.91	6.7	4.5	6.0
17	10	7.6	e9.6	12	12	9.6	12	8.3	3.5	16	3.5	4.2
18	11	6.8	11	e12	e12	8.4	18	7.5	4.3	14	4.8	4.7
19	7.9	7.3	e11	11	e11	9.9	11	7.4	15	5.6	2.5	5.1
20	7.5	10	e10	e12	10	8.2	13	8.3	4.3	1.6	2.3	4.7
21	7.9	12	7.6	e12	11	7.9	10	8.5	2.3	6.4	6.1	6.3
22	7.9	7.9	e7.8	e13	11	9.5	7.6	8.9	3.0	6.3	1.5	6.0
23	7.7	6.5	8.0	e13	9.9	8.1	8.7	12	6.4	4.5	2.2	6.1
24	8.6	6.4	8.3	13	12	7.7	9.9	8.6	20	7.2	8.2	6.4
25	11	6.4	8.6	e12	12	7.7	10	7.0	9.7	5.1	7.9	5.8
26	14	6.4	8.7	e11	13	6.9	10	11	9.5	3.4	4.8	4.9
27	15	7.7	8.4	9.9	13	8.0	9.9	12	10	2.8	3.3	4.7
28	14	6.6	7.3	9.5	11	7.5	10	9.3	10	7.0	4.4	4.0
29	13	5.9	7.1	9.5	---	7.3	11	7.3	11	5.1	4.3	4.4
30	12	e5.9	e6.8	9.5	---	7.4	12	7.3	11	3.3	5.3	4.9
31	11	---	e6.8	10	---	7.3	---	8.2	---	2.6	2.3	---
TOTAL	280.7	225.5	222.9	313.5	306.6	279.1	300.9	300.9	242.31	282.4	127.30	118.43
MEAN	9.05	7.52	7.19	10.1	10.9	9.00	10.0	9.71	8.08	9.11	4.11	3.95
MAX	16	12	11	13	13	15	18	15	20	21	10	9.1
MIN	4.8	5.9	4.7	4.6	8.8	6.9	7.3	7.0	.91	1.6	.40	.00
AC-FT	557	447	442	622	608	554	597	597	481	560	252	235

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

MEAN	8.71	8.43	8.83	9.90	11.3	12.0	11.8	12.5	22.5	21.9	22.4	11.0
MAX	18.8	10.9	12.1	21.1	32.9	35.5	41.5	36.6	124	59.9	92.4	29.0
(WY)	1970	1968	1966	1962	1968	1994	1970	1973	1967	1967	1978	1978
MIN	3.84	4.98	5.95	5.46	7.15	7.55	4.98	2.87	4.56	7.44	4.02	3.22
(WY)	1978	1978	1984	1979	1962	1991	1978	1978	1992	1992	1963	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1962 - 1995

(SINCE STORAGE IN HUGH BUTLER LAKE)

ANNUAL TOTAL	4631.36	3000.54	
ANNUAL MEAN	12.7	8.22	13.5
HIGHEST ANNUAL MEAN			25.5
LOWEST ANNUAL MEAN			7.90
HIGHEST DAILY MEAN	64	21	668
LOWEST DAILY MEAN	.03	.00	.00
ANNUAL SEVEN-DAY MINIMUM	1.1	1.3	.93
INSTANTANEOUS PEAK FLOW		48	30000
INSTANTANEOUS PEAK STAGE		5.00	18.36
ANNUAL RUNOFF (AC-FT)	9190	5950	9750
10 PERCENT EXCEEDS	32	12	22
50 PERCENT EXCEEDS	9.2	8.1	9.4
90 PERCENT EXCEEDS	2.7	4.2	5.8

06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE

LOCATION.--Lat 40°17'05", long 100°08'35", in NW1/4 SE1/4 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 mi², of which about 7,780 mi² 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	85	119	e96	e132	e124	175	240	315	163	340	279
2	40	89	120	e96	e133	e120	175	237	286	166	296	244
3	44	91	e120	e95	e130	e108	174	235	254	161	258	204
4	48	97	e120	e95	e128	e112	175	228	263	164	228	212
5	52	102	e112	e96	e131	e114	177	217	278	187	207	232
6	55	101	e104	e98	133	e112	180	221	268	198	209	238
7	58	100	e96	e99	133	e112	179	244	249	179	238	195
8	59	99	e99	e96	135	e120	177	252	259	165	298	177
9	61	98	e101	e91	137	e123	175	225	264	154	355	165
10	62	99	e102	e94	136	176	173	204	247	221	355	150
11	61	99	e103	e104	134	163	172	190	231	286	333	152
12	63	100	e104	e112	132	158	173	183	219	327	317	151
13	60	101	e99	e115	120	167	175	181	213	338	330	147
14	59	103	e98	e120	e112	217	176	174	207	343	324	133
15	65	108	e104	e124	e108	217	174	173	194	374	300	120
16	71	110	e106	e120	e112	219	154	201	179	368	285	104
17	85	107	e109	e123	e120	218	154	203	166	354	259	91
18	81	105	e110	e125	e124	221	186	201	158	313	233	80
19	79	105	e111	e127	e128	221	191	188	149	279	215	79
20	79	124	e112	e128	131	219	195	186	132	274	224	71
21	79	131	e113	e123	128	212	196	194	146	249	231	76
22	77	117	e114	e118	128	194	194	193	197	249	255	76
23	76	112	e115	e122	121	188	190	232	164	250	264	72
24	77	107	e112	e128	121	187	185	261	166	245	280	69
25	76	108	e111	e126	125	186	183	232	188	319	297	69
26	76	109	e110	e123	132	196	188	247	196	322	285	68
27	80	119	e112	e120	e130	199	184	398	207	347	297	65
28	82	119	e109	e115	e128	194	172	409	205	335	292	60
29	81	115	e109	e128	---	184	164	369	183	320	287	62
30	81	118	e105	e130	---	178	182	343	169	327	303	70
31	82	---	e96	e131	---	173	---	325	---	344	296	---
TOTAL	2085	3178	3355	3518	3562	5332	5348	7386	6352	8321	8691	3911
MEAN	67.3	106	108	113	127	172	178	238	212	268	280	130
MAX	85	131	120	131	137	221	196	409	315	374	355	279
MIN	36	85	96	91	108	108	154	173	132	154	207	60
AC-FT	4140	6300	6650	6980	7070	10580	10610	14650	12600	16500	17240	7760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	124	158	154	161	250	311	275	327	365	379	306	162
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	74.3	44.4	109	111	91.3	48.0	60.7	160	98.9	5.59
(WY)	1992	1991	1979	1979	1991	1991	1992	1992	1992	1952	1952	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

				SINCE STORAGE IN HARRY STRUNK LAKE)			
ANNUAL TOTAL	61226			61039			
ANNUAL MEAN	168			167		248	
HIGHEST ANNUAL MEAN						686	1951
LOWEST ANNUAL MEAN						110	1991
HIGHEST DAILY MEAN	538	Mar 6		409	May 28	8610	Mar 22 1960
LOWEST DAILY MEAN	22	Sep 17		36	Oct 1	.07	Sep 27 1978
ANNUAL SEVEN-DAY MINIMUM	23	Sep 14		48	Oct 1	.11	Sep 21 1978
INSTANTANEOUS PEAK FLOW (STAGE)				435(4.58)	May 27	160000	Jun 22 1947
INSTANTANEOUS PEAK STAGE				*5.61	Jan 25	**16.70	Jun 22 1947
ANNUAL RUNOFF (AC-FT)	121400	121100		179500			
10 PERCENT EXCEEDS	295	286		429			
50 PERCENT EXCEEDS	160	151		172			
90 PERCENT EXCEEDS	60	80		77			

e Estimated.

* Backwater from ice.

** From floodmark.

KANSAS RIVER BASIN

177

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE

LOCATION.--Lat 40°07'53", long 99°30'08", in NE1/4 NE1/4 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 mi², approximately, of which about 8,880 mi² contributes directly to surface runoff.

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	110	141	e110	198	167	240	255	493	129	81	29
2	50	112	139	e80	184	158	240	293	455	128	77	31
3	53	112	139	e60	176	e159	238	332	420	122	98	40
4	54	113	137	e60	173	e160	231	333	396	127	91	44
5	57	115	132	e70	168	e165	232	324	399	167	73	33
6	62	119	121	e100	164	170	232	305	428	170	63	39
7	61	121	69	e120	160	e172	231	323	367	157	57	53
8	63	118	e67	e135	155	e175	231	358	349	144	54	71
9	65	116	e66	e142	160	e180	231	381	344	118	49	85
10	68	114	e65	e150	160	e182	229	351	371	106	52	86
11	69	116	e66	e152	155	e184	229	324	361	90	54	90
12	73	119	e68	e158	146	e188	229	305	328	89	47	84
13	80	123	e70	e162	e146	e192	230	292	308	88	50	77
14	83	121	e74	e165	e147	198	229	277	291	82	61	71
15	86	116	e78	e168	e148	218	228	266	272	79	64	66
16	91	115	e85	e172	e150	248	229	260	255	82	64	54
17	98	119	e90	e178	e152	251	224	275	235	98	62	59
18	115	117	e98	e182	e157	255	231	302	222	101	57	69
19	127	115	e106	e186	e162	257	232	299	219	100	47	67
20	125	134	e116	e190	169	260	236	299	204	92	51	61
21	117	150	e124	e195	166	259	238	290	165	78	51	74
22	111	165	e130	e200	176	254	235	288	139	76	47	71
23	105	155	e140	e204	183	242	229	348	121	68	47	72
24	103	144	e147	e208	182	231	224	434	148	68	43	73
25	101	139	e152	e209	181	232	223	392	138	68	37	69
26	103	142	e156	e210	178	306	224	375	131	56	30	64
27	106	152	e160	e210	175	297	226	732	138	62	36	63
28	110	152	156	e209	170	272	226	1140	139	55	38	62
29	106	147	152	e208	---	265	226	833	151	54	33	62
30	103	138	152	e206	---	255	229	621	145	59	33	61
31	107	---	141	e204	---	245	---	537	---	66	32	---
TOTAL	2697	3829	3537	5003	4641	6797	6912	12144	8132	2979	1679	1880
MEAN	87.0	128	114	161	166	219	230	392	271	96.1	54.2	62.7
MAX	127	165	160	210	198	306	240	1140	493	170	98	90
MIN	45	110	65	60	146	158	223	255	121	54	30	29
AC-FT	5350	7590	7020	9920	9210	13480	13710	24090	16130	5910	3330	3730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

MEAN	131	172	172	173	304	397	342	413	497	276	184	152
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	118	144	124	54.8	56.6	10.8	3.51	.007
(WY)	1992	1979	1979	1979	1978	1991	1991	1956	1988	1991	1955	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1948 - 1995

ANNUAL TOTAL	58731	60230	267
ANNUAL MEAN	161	165	746
HIGHEST ANNUAL MEAN			1951
LOWEST ANNUAL MEAN			78.4
HIGHEST DAILY MEAN	1380	May 5	18400
LOWEST DAILY MEAN	35	Sep 17	.00
ANNUAL SEVEN-DAY MINIMUM	36	Sep 16	.00
INSTANTANEOUS PEAK FLOW			40600
INSTANTANEOUS PEAK STAGE (STAGE)			(11.25)
ANNUAL RUNOFF (AC-FT)	116500	119500	193500
10 PERCENT EXCEEDS	280	298	502
50 PERCENT EXCEEDS	125	144	167
90 PERCENT EXCEEDS	59	57	46

e Estimated.

* Backwater from ice.

KANSAS RIVER BASIN

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 mi², of which 294 mi² 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 good except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1944 reached a stage of 18.16 ft, from floodmark.

PEAK DISCHARGES GREATER THAN BASE FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/sec and maximum (*):

Date	Time	Discharge (ft ³ /sec)	Gage height (ft)	Date	Time	Discharge (ft ³ /sec)	Gage height (ft)
Sept. 29	2130	*131	*5.93	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e1.3	e.40	e.50	7.9	9.7	25	13	.64	.00
2	.00	.00	.00	e.26	e.40	e.50	8.3	9.7	21	13	.48	.00
3	.00	.00	.01	e.10	e.40	e.50	8.2	9.9	19	13	.53	.00
4	.00	.00	.00	e.00	e.40	e.50	7.8	11	18	12	.56	.00
5	.00	.00	.00	e.00	e.40	e.50	7.9	11	17	12	.22	.00
6	.00	.02	.00	e.00	e.40	5.6	8.0	11	18	12	.04	.00
7	.00	.00	.00	e.00	e.40	e5.0	7.9	11	17	12	.06	.00
8	.00	.00	.00	e.00	e.40	e5.0	7.8	12	17	12	.03	.00
9	.00	.00	.00	e.00	e.40	e4.5	7.6	12	16	13	.00	.00
10	.00	.00	.00	e.00	e.40	e4.5	7.7	12	16	12	.00	.00
11	.00	.00	.00	e.00	e.40	e4.0	7.7	12	15	9.9	.00	.00
12	.00	.00	.00	1.5	e.40	e4.0	8.0	12	13	8.4	.00	.00
13	.00	.00	.00	.60	e.40	e4.0	7.6	12	13	7.3	.00	.00
14	.00	.00	.00	.00	e.40	e4.5	5.7	12	14	6.1	.00	.00
15	.00	.00	.00	.03	e.40	e4.5	5.7	11	14	5.0	.00	.00
16	.00	.00	.00	.50	e.50	4.5	5.8	11	13	4.1	.00	.00
17	.00	.00	.00	.34	e.50	4.5	5.9	11	13	3.8	.00	.00
18	.00	.00	.00	.26	e.50	4.2	7.3	11	12	4.2	.00	.00
19	.00	.00	.25	e.34	e.50	4.5	7.3	11	12	3.8	.00	.00
20	.00	.01	.35	e.34	e.50	6.5	8.3	12	12	3.4	.00	.00
21	.00	e.10	e.45	e.34	e.50	7.8	8.9	13	12	5.1	.00	.00
22	.00	.00	e.60	e.34	e.50	7.4	9.8	15	12	5.0	.00	.00
23	.00	.00	e.65	e.34	e.50	6.3	9.3	17	12	5.7	.00	.00
24	.00	.00	e.70	e.34	e.50	6.3	10	17	12	7.3	.00	.00
25	.00	.00	e.72	e.34	e.50	6.2	9.6	18	12	7.8	.00	.00
26	.00	.00	e.74	e.34	e.50	7.1	9.3	16	12	11	.00	.00
27	.00	.00	e.70	e.34	e.50	7.5	9.2	16	17	9.4	.00	.00
28	.00	.01	e.70	e.34	e.50	8.2	8.8	17	22	7.2	.00	.00
29	.00	.00	e.80	e.34	---	8.5	8.5	17	16	6.4	.00	10
30	.00	.00	e1.0	e.34	---	8.3	9.0	16	14	4.3	.00	9.0
31	.00	---	e1.8	e.34	---	8.2	---	18	---	2.1	.00	---
MEAN	.000	.005	.31	.30	.45	4.97	8.03	13.0	15.2	8.11	.083	.63
MAX	.00	.10	1.8	1.5	.50	8.5	10	18	25	13	.64	10
MIN	.00	.00	.00	.00	.40	.50	5.7	9.7	12	2.1	.00	.00
AC-FT	.00	.3	19	18	25	306	478	802	904	498	5.1	38

e Estimated

KANSAS RIVER BASIN

179

06846500 BEAVER CREEK AT CEDAR BLUFFS, KS--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	9.44	2.90	2.50	2.12	3.88	12.5	7.42	25.2	41.1	32.0	14.7	16.6
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL MEAN	6.98	4.27	14.3
HIGHEST ANNUAL MEAN			106
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	364	25	4560
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		131	7940
INSTANTANEOUS PEAK STAGE		5.93	18.71
ANNUAL RUNOFF (AC-FT)	5060	3090	10340
10 PERCENT EXCEEDS	11	12	24
50 PERCENT EXCEEDS	3.7	.50	.00
90 PERCENT EXCEEDS	.00	.00	.00

KANSAS RIVER BASIN

06847500 SAPPA CREEK NEAR STAMFORD, NE

LOCATION.--Lat 40°7'53", long 99°33'15", in NW1/4 NW1/4 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 mi², of which about 3,370 mi² 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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	7.0	e15	e16	e21	e24	32	32	152	38	11	4.5
2	4.6	7.2	e15	e10	e21	e23	30	35	130	39	11	4.3
3	4.6	6.6	e15	e8.0	e21	e22	29	45	118	38	10	4.2
4	4.6	6.8	e15	e6.0	e21	e20	e28	49	110	39	9.3	4.2
5	4.6	7.2	e15	e4.5	e21	e17	e27	56	106	66	9.3	4.3
6	4.6	8.1	e14	e4.0	e20	e14	e27	51	115	47	10	4.8
7	4.6	8.0	e13	e4.0	e19	e12	e26	80	113	44	9.4	4.8
8	4.6	8.1	e12	e7.0	e18	e10	e25	86	111	40	10	4.7
9	4.6	8.3	e11	e9.0	e18	e9.0	e25	112	131	36	8.1	5.0
10	4.6	8.3	e10	e11	e18	e8.0	e24	85	127	34	9.1	4.9
11	4.6	8.5	e9.0	e12	e18	e7.0	e24	69	100	34	6.8	4.7
12	4.6	8.9	e8.0	e13	e18	e6.0	24	87	89	32	6.8	4.7
13	4.3	9.0	e7.0	e14	e19	e12	24	72	86	30	4.4	5.0
14	3.9	8.3	e6.0	e15	e21	e25	24	58	83	26	5.5	4.7
15	3.6	8.6	e5.0	e16	e22	27	24	54	82	26	5.7	4.7
16	3.2	9.8	e8.0	e16	e22	26	24	53	75	25	4.1	4.6
17	4.9	9.5	e11	e16	e22	25	24	53	69	19	3.3	4.6
18	5.6	8.7	e12	e16	e22	25	28	54	66	17	3.2	4.7
19	5.1	8.6	e13	e17	e23	25	27	54	62	21	3.2	4.7
20	6.5	11	e14	e18	e24	25	28	57	59	37	4.1	4.5
21	7.9	12	e15	e19	25	25	27	51	55	24	4.0	4.9
22	7.1	12	e16	e20	25	25	28	51	53	21	3.9	4.5
23	7.5	12	e17	e21	25	24	27	82	49	18	3.9	4.4
24	7.4	14	e17	e21	26	24	27	98	47	18	3.9	4.4
25	7.3	18	e17	e21	26	25	28	109	46	17	4.1	4.4
26	6.8	17	e17	e21	26	34	28	98	44	13	4.0	4.2
27	6.6	e16	e17	e21	25	43	28	267	42	11	4.1	4.4
28	5.8	e15	e17	e21	24	41	27	516	42	11	4.6	4.2
29	7.6	e15	e17	e21	---	38	27	439	41	8.3	4.4	4.2
30	7.7	e15	e17	e21	---	36	28	285	39	9.2	4.2	4.1
31	6.9	---	e17	e21	---	34	---	196	---	8.8	4.2	---
TOTAL	171.1	312.5	412.0	460.5	611	711.0	799	3434	2442	847.3	189.6	136.3
MEAN	5.52	10.4	13.3	14.9	21.8	22.9	26.6	111	81.4	27.3	6.12	4.54
MAX	7.9	18	17	21	26	43	32	516	152	66	11	5.0
MIN	3.2	6.6	5.0	4.0	18	6.0	24	32	39	8.3	3.2	4.1
AC-FT	339	620	817	913	1210	1410	1580	6810	4840	1680	376	270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	42.1	12.1	9.56	7.92	18.3	34.9	23.9	59.2	156	94.5	56.9	42.4
MAX	965	145	96.2	71.5	182	486	164	522	878	891	544	708	
(WY)	1947	1947	1966	1966	1966	1966	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	1956	1981	1977	1955	1959

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1946 - 1995

ANNUAL TOTAL	10503.4	10526.3	
ANNUAL MEAN	28.8	28.8	
MEDIAN OF ANNUAL MEANS			46.7
HIGHEST ANNUAL MEAN			20.2
LOWEST ANNUAL MEAN			229
HIGHEST DAILY MEAN	227 Jun 12	516 May 28	.59 1951
LOWEST DAILY MEAN	3.2 Oct 16	3.2 Oct 16	16600 Jun 24 1966
ANNUAL SEVEN-DAY MINIMUM	4.1 Oct 10	3.7 Aug 17	.00 Sep 12 1953
INSTANTANEOUS PEAK FLOW		563 May 28	.00 Sep 12 1953
INSTANTANEOUS PEAK STAGE		9.49 May 28	43400 Jun 24 1966
ANNUAL RUNOFF (AC-FT)	20830	20880	*22.13 Jun 24 1966
10 PERCENT EXCEEDS	54	60	33840
50 PERCENT EXCEEDS	22	17	85
90 PERCENT EXCEEDS	6.4	4.5	5.4
			.00

e Estimated.

* From floodmark.

KANSAS RIVER BASIN

181

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 mi².

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.54	6.1	e5.5	8.4	6.2	1.3	2.0	50	14	6.1	.08
2	.62	.56	5.9	e5.0	8.6	5.4	e1.0	2.5	42	15	6.3	.08
3	.76	.50	5.4	e4.5	8.8	6.9	e.90	4.6	36	14	4.1	.09
4	.68	.80	5.6	e4.6	8.2	6.8	e.80	5.7	38	15	4.6	.14
5	.44	1.4	5.7	4.7	7.7	6.7	e.75	3.4	59	17	3.3	.23
6	.42	1.8	4.3	5.1	7.2	6.9	e.70	2.0	42	16	2.9	.37
7	.29	e1.9	5.4	4.5	6.6	6.5	e.80	30	34	17	3.5	.40
8	.25	e2.0	5.8	4.5	6.3	6.5	e.90	70	28	15	2.8	.38
9	.28	e1.9	5.7	4.5	6.3	6.5	e.95	379	29	12	.77	.54
10	.31	e1.8	5.3	4.9	6.4	7.6	e1.0	121	28	11	4.2	.42
11	.29	e1.9	5.4	5.4	6.2	8.8	1.1	47	24	10	1.4	.48
12	.26	e2.0	5.4	5.9	5.0	9.7	1.2	29	23	9.2	.92	.53
13	.23	2.1	5.2	6.3	6.3	9.4	1.2	41	21	7.9	.47	.54
14	.26	2.3	5.4	6.8	6.2	9.8	1.4	21	19	7.8	.56	.39
15	.53	2.8	5.6	7.5	6.2	9.7	1.4	19	18	7.0	1.2	.40
16	.72	3.2	5.7	8.2	6.0	9.2	1.3	18	18	7.8	5.9	.45
17	.88	3.7	5.9	8.6	6.5	7.5	e2.0	19	17	6.7	6.8	.43
18	.99	3.5	6.1	8.6	7.0	5.3	e2.5	60	16	5.5	5.0	211
19	.87	3.5	6.4	8.1	7.3	3.4	e2.0	38	15	8.0	6.0	126
20	.66	5.2	6.9	7.7	7.3	3.3	e1.7	27	14	12	3.0	.95
21	.59	6.5	7.4	7.6	6.5	3.4	1.4	30	13	13	3.1	.49
22	.48	6.9	7.6	7.1	5.5	3.4	1.3	19	12	9.2	4.5	.65
23	.40	8.5	7.5	6.9	5.5	3.2	.93	170	12	6.9	1.6	.75
24	.37	12	7.2	6.2	6.9	e3.0	.76	256	13	7.3	1.4	.58
25	.47	11	7.5	6.4	11	e2.5	.55	287	12	5.5	.47	.54
26	.62	7.4	7.0	6.9	8.5	103	.54	155	12	7.2	.21	.61
27	.70	6.5	7.1	8.2	7.4	27	.58	1120	13	6.9	.12	.58
28	.71	5.9	6.8	8.3	7.1	7.2	.60	1340	15	6.9	.07	.59
29	.63	5.7	7.2	8.3	---	5.3	.66	749	15	4.3	.07	.70
30	.56	5.0	6.9	8.4	---	4.3	.99	117	14	3.5	.07	.76
31	.57	---	5.9	8.6	---	2.5	---	64	---	5.2	.09	---
MEAN	.52	3.96	6.17	6.57	7.03	9.90	1.11	169	23.4	9.80	2.63	11.7
MAX	.99	12	7.6	8.6	11	103	2.5	1340	59	17	6.8	211
MIN	.23	.50	4.3	4.5	5.0	2.5	.54	2.0	12	3.5	.07	.08
AC-FT	32	236	379	404	391	609	66	10410	1390	603	162	695

e Estimate

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

	MEAN	20.5	6.00	4.69	4.59	16.2	17.7	9.61	45.9	92.3	65.1	34.4	24.4
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 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1929 - 1995

ANNUAL MEAN	8.43	21.2	27.7
HIGHEST ANNUAL MEAN			208
LOWEST ANNUAL MEAN			.051
HIGHEST DAILY MEAN	432	Jul 5	1340
LOWEST DAILY MEAN	.00	Sep 14	.07
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 14	.08
INSTANTANEOUS PEAK FLOW			1450
INSTANTANEOUS PEAK STAGE			16.26
ANNUAL RUNOFF (AC-FT)	6110	15370	20070
10 PERCENT EXCEEDS	17	22	30
50 PERCENT EXCEEDS	5.7	5.7	3.5
90 PERCENT EXCEEDS	.24	.48	.00

KANSAS RIVER BASIN

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE

LOCATION.--Lat 40°04'45", long 99°10'05", in SW1/4 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 mi², of which about 13,590 mi² 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).

REMARKS.--Records good. Flow completely regulated by Harlan County Lake (station 06849000) and partially regulated by six upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	7.7	5.3	6.4	14	20	12	14	27	1000	667	414
2	3.7	7.3	4.9	5.4	14	16	12	13	145	998	668	376
3	4.0	7.5	5.2	4.7	14	10	11	21	483	807	666	363
4	4.0	6.4	5.9	3.9	13	7.8	15	23	490	584	664	365
5	2.0	6.9	4.7	3.5	13	8.3	10	18	615	578	662	320
6	2.9	6.9	3.8	3.7	14	5.7	6.8	17	497	574	662	282
7	3.8	7.4	4.2	3.5	14	13	7.9	32	726	574	492	276
8	4.4	6.9	4.7	4.4	13	10	9.3	41	984	603	416	253
9	4.1	6.7	4.3	7.0	15	2.9	13	19	989	658	477	238
10	4.8	5.9	4.2	14	14	3.0	16	135	981	703	495	239
11	5.2	5.2	3.8	15	14	2.4	14	386	966	748	491	238
12	5.1	5.5	3.8	14	14	1.9	8.8	393	972	742	544	238
13	4.9	5.9	3.8	13	16	1.8	5.6	419	973	732	645	215
14	5.0	4.9	4.0	13	14	1.8	2.6	404	976	726	610	183
15	6.4	4.8	4.1	13	13	2.0	3.0	404	976	722	385	92
16	6.9	5.1	4.7	14	13	2.3	4.3	405	976	719	214	7.0
17	7.8	4.4	5.2	14	15	2.4	7.4	406	974	680	210	6.2
18	9.0	4.5	5.5	14	14	2.3	9.5	423	980	647	205	6.6
19	8.2	4.3	6.1	13	14	2.4	7.2	416	983	644	308	6.0
20	8.2	7.7	6.6	13	13	2.8	10	437	1010	646	383	5.8
21	7.6	6.9	6.2	13	13	3.5	10	421	1010	641	386	6.8
22	7.5	4.0	5.9	12	13	2.3	8.6	416	1010	637	385	6.2
23	7.1	3.5	5.5	12	14	2.5	8.0	442	1010	608	469	7.1
24	7.5	3.8	5.6	12	13	3.0	10	451	1010	582	564	8.2
25	7.6	3.9	5.8	13	12	6.0	9.5	429	1010	578	589	8.0
26	7.7	4.2	5.9	13	13	20	7.8	430	1010	603	589	8.4
27	7.8	5.8	5.9	16	17	14	8.2	1060	1010	620	586	8.8
28	8.7	6.4	5.5	15	20	12	7.5	113	1010	619	582	9.4
29	8.7	5.2	5.3	14	---	12	7.6	45	1010	653	544	11
30	7.3	4.6	5.4	15	---	13	12	34	1000	673	499	12
31	7.4	---	4.5	14	---	12	---	31	---	671	466	---
TOTAL	187.9	170.2	156.3	341.5	393	219.1	274.6	8298	25813	20970	15523	4209.5
MEAN	6.06	5.67	5.04	11.0	14.0	7.07	9.15	268	860	676	501	140
MAX	9.0	7.7	6.6	16	20	20	16	1060	1010	1000	668	414
MIN	2.0	3.5	3.8	3.5	12	1.8	2.6	13	27	574	205	5.8
AC-FT	373	338	310	677	780	435	545	16460	51200	41590	30790	8350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	116	75.8	60.1	60.0	128	140	197	218	393	743	421	115
MEAN	116	75.8	60.1	60.0	128	140	197	218	393	743	421	115
MAX	2044	985	571	535	680	941	2400	2069	1763	2761	1726	809
(WY)	1966	1994	1994	1966	1966	1963	1960	1960	1962	1962	1962	1962
MIN	3.79	2.50	2.40	2.30	2.15	2.88	2.63	2.70	14.4	70.3	91.0	2.95
(WY)	1990	1992	1977	1991	1977	1991	1992	1992	1993	1993	1981	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1953 - 1995

ANNUAL TOTAL	75236.5	76556.1	225
ANNUAL MEAN	206	210	690
HIGHEST ANNUAL MEAN			1966
LOWEST ANNUAL MEAN			1992
HIGHEST DAILY MEAN	782	1060	4210
LOWEST DAILY MEAN	2.0	1.8	.60
ANNUAL SEVEN-DAY MINIMUM	2.6	2.1	.87
INSTANTANEOUS PEAK FLOW		1740	4320
INSTANTANEOUS PEAK STAGE		4.71	8.65
ANNUAL RUNOFF (AC-FT)	149200	151800	163400
10 PERCENT EXCEEDS	528	676	652
50 PERCENT EXCEEDS	194	13	14
90 PERCENT EXCEEDS	4.4	4.0	4.5

06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE

LOCATION.--Lat 40°00'15", long 98°07'55", in SW1/4 SE1/4 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.

REMARKS.--Records good except for periods of estimated record, which are poor. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.00	.00	.00	150	.00	.00	.00	.00	192	438	297
2	1.5	.00	.00	.00	150	.00	.00	.00	.00	192	441	283
3	1.5	.00	.00	.00	146	.00	.00	.00	.00	235	435	285
4	.00	.00	.00	.00	140	.00	.00	.00	.00	259	440	288
5	.00	.00	.00	.00	138	.00	.00	.00	.00	254	444	280
6	.00	.00	.00	.00	136	.00	.00	.00	.00	252	464	243
7	.00	.00	.00	.00	133	.00	.00	.00	.00	302	478	228
8	.00	.00	.00	.00	112	.00	.00	.00	.00	330	464	230
9	.00	.00	.00	.00	46	.00	.00	.00	.00	329	409	238
10	.00	.00	.00	.00	6.4	.00	.00	.00	.00	330	381	243
11	.00	.00	.00	.00	2.3	.00	.00	.00	.00	331	371	240
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	348	340	245
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	371	327	249
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	368	354	244
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	367	323	236
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	370	294	190
17	.00	.00	.00	12	.00	.00	.00	.00	.00	374	288	143
18	.00	.00	.00	92	.00	.00	.00	.00	.00	378	283	168
19	.00	.00	.00	105	.00	.00	.00	.00	.00	377	284	202
20	.00	.00	.00	151	.00	.00	.00	.00	.00	378	283	210
21	.00	.00	.00	141	.00	.00	.00	.00	.00	379	284	185
22	.00	.00	.00	140	.00	.00	.00	.00	.00	381	276	152
23	.00	.00	.00	130	.00	.00	.00	.00	.00	377	266	140
24	.00	.00	.00	125	.00	.00	.00	.00	175	362	252	132
25	.00	.00	.00	129	.00	.00	.00	.00	193	332	292	133
26	.00	.00	.00	136	.00	.00	.00	.00	195	334	342	114
27	.00	.00	.00	175	.00	.00	.00	.00	196	339	360	115
28	.00	.00	.00	188	.00	.00	.00	.00	197	359	369	129
29	.00	.00	.00	179	---	.00	.00	.00	196	360	372	132
30	.00	.00	.00	152	---	.00	.00	.00	192	362	328	180
31	.00	---	.00	150	---	.00	---	.00	---	396	289	---
TOTAL	4.70	0.00	0.00	2005.00	1159.70	0.00	0.00	0.00	1344.00	10318	10971	6154
MEAN	.15	.000	.000	64.7	41.4	.000	.000	.000	44.8	333	354	205
MAX	1.7	.00	.00	188	150	.00	.00	.00	197	396	478	297
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	192	252	114
AC-FT	9.3	.00	.00	3980	2300	.00	.00	.00	2670	20470	21760	12210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

MEAN	28.7	10.6	2.95	3.63	3.77	6.82	11.8	51.9	107	347	280	62.2
MAX	464	212	73.6	84.4	82.9	87.1	97.8	237	362	627	570	205
(WY)	1958	1967	1992	1992	1992	1992	1991	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1955 - 1995

ANNUAL TOTAL	22806.30	31956.40	
ANNUAL MEAN	62.5	87.6	77.2
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			19.5
HIGHEST DAILY MEAN	400 Jun 23	478 Aug 7	731 Oct 22 1957
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 4	*.00 Oct 1 1954
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 4	.00 Oct 1 1954
INSTANTANEOUS PEAK FLOW		482 Aug 6	781 Sep 2 1973
INSTANTANEOUS PEAK STAGE		3.78 Aug 6	5.05 Sep 2 1973
ANNUAL RUNOFF (AC-FT)	45240	63390	55950
10 PERCENT EXCEEDS	268	333	279
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

* No flow for many days each year.

KANSAS RIVER BASIN

06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE

LOCATION.--Lat 40°03'49", long 98°19'53", in NE1/4 SE1/4 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.--22,030 mi², approximately, of which about 14,560 mi² 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-94-1: 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.

REMARKS.--Records fair 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	104	145	e100	8.3	e110	135	166	e680	803	118	59
2	89	106	145	e110	7.6	e90	135	172	e660	845	101	67
3	92	106	144	e120	7.1	e104	133	187	e640	795	99	65
4	95	106	142	e124	6.6	e108	128	230	e1300	771	74	56
5	98	109	139	e126	6.0	e110	130	234	e1700	467	61	51
6	99	107	e130	e124	5.7	e80	130	203	e1080	388	255	49
7	94	108	e118	e122	5.2	e68	131	251	e900	287	418	41
8	89	106	e120	e122	20	e86	127	788	e1000	201	219	42
9	86	105	e116	e126	111	e110	127	515	e1280	169	56	46
10	87	106	e100	e126	124	e180	128	331	e1300	154	51	36
11	86	107	e96	e124	e120	e210	130	271	e1280	142	36	35
12	87	110	e98	e124	e84	180	132	386	e1260	154	16	41
13	89	113	e102	e120	e72	162	132	677	e1260	130	11	40
14	89	110	e108	e126	e82	154	130	664	e1260	109	229	43
15	92	108	e120	e134	e92	144	127	573	1260	111	977	33
16	100	109	e130	e130	e120	142	123	572	1190	109	602	70
17	107	112	e135	e100	e130	139	125	657	1150	101	289	59
18	109	111	e140	e82	e140	137	144	1300	1140	82	177	24
19	103	110	e140	49	e140	139	149	1030	1130	58	120	7.8
20	101	127	e150	19	130	140	162	814	1110	64	93	5.0
21	102	175	159	15	133	139	170	744	1110	59	132	6.1
22	101	169	156	13	134	137	160	704	1060	56	61	4.3
23	98	147	151	12	131	132	152	831	1030	48	25	4.2
24	97	141	146	12	128	127	149	1050	971	54	21	4.8
25	97	139	144	10	130	132	148	779	942	46	47	5.0
26	97	138	143	11	130	161	146	710	885	35	36	4.9
27	99	149	143	15	e130	175	149	e2000	860	32	37	4.6
28	101	160	139	22	e120	174	147	e3600	848	32	38	5.0
29	101	152	137	11	---	157	145	e1400	819	20	26	9.7
30	101	144	133	9.4	---	146	148	e920	808	25	45	10
31	101	---	e100	8.4	---	145	---	e710	---	60	47	---
TOTAL	2972	3694	4069	2346.8	2447.5	4218	4172	23469	31913	6407	4517	928.4
MEAN	95.9	123	131	75.7	87.4	136	139	757	1064	207	146	30.9
MAX	109	175	159	134	140	210	170	3600	1700	845	977	70
MIN	85	104	96	8.4	5.2	68	123	166	640	20	11	4.2
AC-FT	5890	7330	8070	4650	4850	8370	8280	46550	63300	12710	8960	1840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	204	182	163	156	264	331	364	422	513	540	243	290
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1994

ANNUAL TOTAL	93306.8	91153.7	
ANNUAL MEAN	256	250	305
HIGHEST ANNUAL MEAN			1495
LOWEST ANNUAL MEAN			52.1
HIGHEST DAILY MEAN	2000	3600	20900
LOWEST DAILY MEAN	4.8	4.2	.10
ANNUAL SEVEN-DAY MINIMUM	18	4.7	.62
INSTANTANEOUS PEAK FLOW		*4000	29200
INSTANTANEOUS PEAK STAGE		May 29	Jun 16 1957
ANNUAL RUNOFF (AC-FT)	185100	180800	**20.73
10 PERCENT EXCEEDS	520	816	692
50 PERCENT EXCEEDS	147	125	118
90 PERCENT EXCEEDS	50	23	22

e Estimated

* Estimated (no gage-height period) based on comparison with station on Republican River near Hardy.

** Site and datum then in use.

KANSAS RIVER BASIN

185

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 mi², of which about 7,500 mi² 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 fair 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).

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 ft³/sec, based on records for upstream stations.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	116	154	e140	72	150	165	195	1090	856	161	161
2	98	119	154	e130	70	153	163	218	934	872	223	154
3	105	119	151	e135	68	153	160	225	791	908	215	162
4	109	123	148	e140	64	e150	154	268	763	932	209	172
5	115	126	143	e145	64	e145	150	296	1300	833	178	165
6	118	127	132	e150	61	e140	149	289	1990	615	187	138
7	111	125	120	e150	59	e135	151	287	1440	527	386	132
8	106	125	e125	e150	58	e140	152	1110	1100	388	421	133
9	100	122	e130	e150	61	e145	151	1070	1170	310	271	138
10	98	122	e135	e145	131	e150	154	612	1380	276	141	134
11	98	123	e140	e140	160	e160	155	445	1350	247	114	127
12	98	125	e145	e135	149	e170	159	380	1320	223	95	119
13	98	128	e150	e130	147	e180	159	1100	1300	223	76	118
14	98	127	e145	e125	149	181	159	916	1290	194	175	110
15	104	124	e140	e120	156	169	154	785	1270	178	855	112
16	111	121	e145	e115	177	161	152	696	1260	206	885	100
17	123	126	e150	e110	187	158	151	731	1230	202	538	113
18	131	125	e155	e105	195	156	162	1620	1200	169	316	137
19	129	124	e160	e100	187	157	182	1750	1190	156	240	103
20	123	140	e165	e95	174	157	200	1140	1180	151	198	73
21	118	179	e170	94	167	160	219	941	1160	144	171	73
22	116	191	e175	86	164	160	222	883	1150	138	200	69
23	113	178	e175	80	162	158	201	916	1110	132	144	64
24	112	164	175	74	159	156	186	1290	1070	115	111	61
25	113	156	172	72	158	156	181	1220	1050	112	84	62
26	114	151	169	73	157	174	181	994	975	100	108	58
27	115	155	167	86	157	195	180	2060	939	77	111	56
28	118	158	164	117	154	202	176	3640	924	68	118	54
29	118	164	160	115	---	196	174	4840	897	71	109	60
30	117	157	158	83	---	179	176	3400	878	70	93	61
31	117	---	158	76	---	169	---	1370	---	76	107	---
MEAN	111	138	153	115	131	162	169	1151	1157	309	234	107
MAX	131	191	175	150	195	202	222	4840	1990	932	885	172
MIN	93	116	120	72	58	135	149	195	763	68	76	54
AC-FT	6820	8210	9380	7070	7270	9950	10070	70790	68830	18980	14360	6380

e Estimated

KANSAS RIVER BASIN

06853500 REPUBLICAN RIVER NEAR HARDY, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	280	222	201	189	317	448	451	492	531	550	320	324
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 1994 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1958 - 1995

ANNUAL MEAN	332		329		360	
HIGHEST ANNUAL MEAN					800	1960
LOWEST ANNUAL MEAN					72.5	1991
HIGHEST DAILY MEAN	2890	Mar 5	4840	May 29	15000	Oct 1 1983
LOWEST DAILY MEAN	61	Jun 17	54	Sep 28	4.8	Aug 3 1991
ANNUAL SEVEN-DAY MINIMUM	81	Jun 11	59	Sep 24	9.0	Jun 26 1992
INSTANTANEOUS PEAK FLOW			5390	May 29	225000	Jun 2 1935
INSTANTANEOUS PEAK STAGE			10.11	May 29	19.40	Jun 2 1935
ANNUAL RUNOFF (AC-FT)	240300		238100		261100	
10 PERCENT EXCEEDS	644		983		800	
50 PERCENT EXCEEDS	206		154		170	
90 PERCENT EXCEEDS	102		93		65	

KANSAS RIVER BASIN

187

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE

LOCATION.--Lat 40°43'52", long 97°10'38", in SW1/4 SW1/4 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 mi².

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	113	150	e90	e94	e81	101	106	924	111	121	111
2	82	112	153	e80	111	e78	103	108	725	110	121	112
3	85	111	153	e66	123	e78	102	113	531	107	133	113
4	87	111	145	e62	145	e80	98	151	463	103	140	112
5	90	99	125	e58	148	e82	97	196	360	103	144	111
6	109	93	e100	e62	e116	e76	97	226	309	106	146	108
7	112	92	e90	e56	e110	e70	97	232	300	107	214	102
8	124	92	e82	e52	e108	e64	97	318	422	102	315	93
9	127	91	e80	e60	e106	e68	97	372	507	96	354	93
10	127	90	e74	e70	e104	e82	97	504	487	91	369	94
11	126	89	e64	e88	e98	112	97	635	418	91	317	93
12	126	89	e70	e120	e86	114	97	509	327	87	232	95
13	125	89	e78	e150	e88	116	98	353	270	86	175	91
14	124	89	e82	172	e90	149	98	264	234	87	156	87
15	124	85	e84	132	e94	145	99	209	208	86	157	82
16	123	83	e90	113	e98	130	98	180	190	87	160	76
17	123	84	e92	e108	102	121	97	159	178	89	164	73
18	122	85	96	e100	103	114	96	151	168	93	158	73
19	121	85	102	e96	103	111	95	152	160	96	148	73
20	121	86	108	e90	103	110	97	145	153	96	137	73
21	120	119	111	e88	102	109	104	140	150	97	128	75
22	118	144	114	e90	102	109	110	132	142	99	117	73
23	118	148	113	e88	102	109	118	135	140	101	108	71
24	117	149	110	e86	102	106	123	150	134	105	107	68
25	117	144	110	e84	101	105	125	206	130	109	107	65
26	116	136	110	e84	101	105	124	301	125	115	107	64
27	115	130	110	e82	e96	105	121	460	123	121	109	64
28	115	131	109	e84	e86	105	114	864	121	122	113	64
29	114	136	109	e86	---	104	109	1290	120	129	115	65
30	114	144	109	e82	---	103	107	1380	117	129	116	64
31	113	---	109	e76	---	100	---	1300	---	127	113	---
TOTAL	3538	3249	3232	2755	2922	3141	3113	11441	8636	3188	5101	2538
MEAN	114	108	104	88.9	104	101	104	369	288	103	165	84.6
MAX	127	149	153	172	148	149	125	1380	924	129	369	113
MIN	82	83	64	52	86	64	95	106	117	86	107	64
AC-FT	7020	6440	6410	5460	5800	6230	6170	22690	17130	6320	10120	5030

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	MEAN	123	72.8	63.0	71.8	148	331	181	260	343	330	187160
MAX	812	176	104	377	671	1762	887	1147	1749	1395	480	855
(WY)	1974	1974	1995	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1958 - 1995

ANNUAL TOTAL	56816	52854	189
ANNUAL MEAN	156	145	441
HIGHEST ANNUAL MEAN			1984
LOWEST ANNUAL MEAN			54.4
HIGHEST DAILY MEAN	1430	May 30	11100
LOWEST DAILY MEAN	38	Jan 8	12
ANNUAL SEVEN-DAY MINIMUM	44	Feb 20	59
INSTANTANEOUS PEAK FLOW (STAGE)		May 30	1440
INSTANTANEOUS PEAK STAGE		May 30	10.18
ANNUAL RUNOFF (AC-FT)	112700	104800	137000
10 PERCENT EXCEEDS	306	208	314
50 PERCENT EXCEEDS	110	109	80
90 PERCENT EXCEEDS	60	80	45

KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NE

LOCATION.--Lat 40°35'47", long 96°57'33", in SW1/4 SE1/4 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 mi².

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	163	428	e130	263	225	237	414	1960	282	186	168
2	156	165	360	e125	293	e170	239	478	1430	273	184	199
3	155	166	325	e120	394	e150	237	551	1140	268	248	214
4	156	170	285	e116	742	e160	231	944	1310	310	292	229
5	156	170	259	e114	794	e150	225	960	1210	289	257	213
6	170	172	231	e120	547	e140	223	772	842	292	268	205
7	208	173	e140	e110	e300	e120	220	1060	725	285	294	190
8	208	174	e120	e130	e240	e110	219	2290	762	267	544	180
9	167	172	e122	e150	e190	e130	221	2160	924	249	526	168
10	157	173	e118	e170	e170	e170	230	1690	991	236	444	161
11	155	173	e114	e180	e160	284	251	1480	809	222	381	161
12	150	173	e140	204	e150	319	273	1180	639	211	274	163
13	149	177	e150	220	e160	416	270	951	556	201	218	166
14	147	177	e160	235	e180	483	259	758	496	192	284	160
15	152	177	e170	244	e200	508	251	616	458	185	352	151
16	156	176	189	262	e190	428	240	577	429	187	298	146
17	162	176	205	290	e200	372	231	547	406	202	275	140
18	168	179	204	e270	e220	325	232	681	383	198	251	137
19	174	178	211	e230	249	296	237	693	367	190	231	141
20	176	188	214	e210	252	284	295	579	352	289	217	141
21	181	289	221	e200	251	277	395	489	342	401	213	155
22	174	653	222	e200	253	270	471	454	331	268	198	168
23	169	514	237	e210	246	258	471	507	322	214	183	173
24	167	410	240	237	245	251	420	576	316	212	184	164
25	163	319	222	232	241	249	364	547	307	210	195	154
26	159	272	220	231	239	266	361	619	304	205	185	146
27	158	265	223	235	233	267	374	971	306	209	185	142
28	159	322	233	239	231	267	333	2130	306	197	192	138
29	161	446	233	255	---	262	330	2460	300	196	188	138
30	161	518	232	276	---	252	338	2700	292	193	164	143
31	163	---	224	266	---	246	---	2510	---	188	158	---
TOTAL	5098	7480	6652	6211	7833	8105	8678	33344	19315	7321	8069	4954
MEAN	164	249	215	200	280	261	289	1076	644	236	260	165
MAX	208	653	428	290	794	508	471	2700	1960	401	544	229
MIN	147	163	114	110	150	110	219	414	292	185	158	137
AC-FT	10110	14840	13190	12320	15540	16080	17210	66140	38310	14520	16000	9830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

MEAN247	143	122	137	315	745	412	521	912	684	342	333	
MAX	1864	439	239	865	1576	3968	2257	2339	5808	4739	1048	2065
(WY)	1974	1974	1987	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1954 - 1995

ANNUAL TOTAL	141420	123060	
ANNUAL MEAN	387	337	410
HIGHEST ANNUAL MEAN			1030
LOWEST ANNUAL MEAN			96.6
HIGHEST DAILY MEAN	3910	2700	21400
LOWEST DAILY MEAN	114	110	6.0
ANNUAL SEVEN-DAY MINIMUM	129	119	11
INSTANTANEOUS PEAK FLOW (STAGE)		2750	27600 (28.74)
INSTANTANEOUS PEAK STAGE		16.41	*29.86
ANNUAL RUNOFF (AC-FT)	280500	244100	296700
10 PERCENT EXCEEDS	757	578	756
50 PERCENT EXCEEDS	235	231	147
90 PERCENT EXCEEDS	167	151	76

e Estimated.

* From floodmark.

06882000 BIG BLUE RIVER AT BARNESTON, NE

LOCATION.--Lat 40°02'40", long 96°35'12", in NE1/4 NW1/4 sec.24, T.1 N., R.7 E., Gage County, Hydrologic Unit 10270202, 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 mi², of which about 4,370 mi² 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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	240	608	e250	533	330	415	923	e6000	504	822	272
2	244	244	624	e200	478	312	397	1530	e4300	481	464	325
3	252	246	542	e210	469	310	386	1690	e3300	464	395	327
4	242	249	476	e240	502	307	372	5370	e3000	677	353	325
5	273	256	428	e278	671	e290	363	5150	e3700	3920	398	329
6	309	258	401	e270	992	e270	362	2970	e2900	1750	935	344
7	330	255	e210	e270	e700	e260	352	4570	e2000	999	1030	328
8	351	259	e160	e260	e400	e250	345	17600	e2300	693	633	315
9	365	250	e150	e260	e300	e290	337	13300	e2500	595	639	301
10	330	245	e170	e280	e270	e350	382	10300	e2600	525	820	293
11	284	248	e180	e310	e240	e450	529	6040	e1800	482	705	275
12	258	252	e190	342	e220	e500	584	4580	e1500	441	599	271
13	251	259	e200	374	e180	e700	536	16100	e1200	409	502	275
14	242	255	e210	402	e190	e1000	511	7130	e1000	388	646	272
15	240	255	e230	442	e210	1370	476	4280	e900	374	2680	266
16	258	252	e220	515	e250	1210	437	3060	e760	713	3480	270
17	301	260	e240	704	e300	969	415	3610	e700	415	1690	255
18	323	270	e260	e600	488	766	474	3620	e720	347	1040	240
19	289	255	e300	e540	420	644	473	2890	e780	642	722	351
20	277	263	441	e500	399	582	608	2340	e720	5000	573	297
21	271	332	405	e470	381	517	804	1670	e660	2030	489	262
22	271	442	390	e450	381	483	932	1420	596	1080	459	249
23	269	851	386	e420	377	461	884	1660	564	868	428	255
24	259	908	385	e370	367	433	819	2980	601	2220	369	269
25	250	675	383	e340	368	419	759	2260	1130	1090	320	281
26	242	550	389	e350	362	592	755	1580	638	789	302	278
27	245	473	388	e370	351	663	1030	6210	553	565	320	265
28	245	419	400	e400	340	561	880	8790	993	456	311	251
29	242	393	391	e410	---	499	740	7310	695	403	297	289
30	235	490	379	e370	---	461	638	e5680	543	351	292	283
31	237	---	373	e420	---	432	---	e4800	---	557	289	---
TOTAL	8439	10604	10509	11617	11139	16681	16995	161413	49653	30228	23002	8613
MEAN	272	353	339	375	398	538	566	5207	1655	975	742	287
MAX	365	908	624	704	992	1370	1030	17600	6000	5000	3480	351
MIN	235	240	150	200	180	250	337	923	543	347	289	240
AC-FT	16740	21030	20840	23040	22090	33090	33710	320200	98490	59960	45620	17080

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1995, BY WATER YEAR (WY)

	MEAN	568	270	224	287	651	1423	862	1205	2067	1373	710	733
MAX	7451	1014	721	1596	2876	10560	5280	5207	10460	12270	5227	3420	
(WY)	1974	1974	1987	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1933 - 1995

ANNUAL TOTAL	259486	358893	865	
ANNUAL MEAN	711	983	2781	1993
HIGHEST ANNUAL MEAN			115	1934
LOWEST ANNUAL MEAN			50000	Jun 9 1941
HIGHEST DAILY MEAN	6250	May 15	17600	May 8
LOWEST DAILY MEAN	150	Dec 9	150	Dec 9
ANNUAL SEVEN-DAY MINIMUM	180	Dec 7	180	Dec 7
INSTANTANEOUS PEAK FLOW			21400	May 13
INSTANTANEOUS PEAK STAGE			22.65	May 13
ANNUAL RUNOFF (AC-FT)	514700	711900	626500	34.30
10 PERCENT EXCEEDS	1700	2280	1780	
50 PERCENT EXCEEDS	392	409	265	
90 PERCENT EXCEEDS	250	249	100	

KANSAS RIVER BASIN

06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE

LOCATION.--Lat 40°19'58", long 98°04'00", in SW1/4 NW1/4 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.--979 mi².

PERIOD OF RECORD.--February 1953 to September 1972, October 1974 to current year.

REVISED RECORDS.--WSP 1919: 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.

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 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	71	83	73	88	75	88	115	370	98	54	41
2	66	72	79	e68	90	78	89	110	272	96	57	32
3	65	72	77	e64	89	78	89	128	228	96	77	28
4	62	73	76	e66	84	79	85	188	262	122	60	29
5	65	71	73	e58	83	80	86	191	954	355	52	29
6	66	71	68	e60	81	76	89	171	983	348	125	26
7	64	71	66	e50	79	e72	91	203	597	185	462	23
8	61	72	e62	e54	79	e64	93	642	329	126	299	19
9	59	72	e56	e58	81	e80	91	606	233	109	155	17
10	60	70	e54	e62	83	90	88	319	193	97	100	17
11	61	72	e52	e68	79	90	87	222	172	83	79	17
12	62	73	e58	e74	78	91	86	175	160	80	65	17
13	63	74	e64	79	81	89	86	152	151	80	52	18
14	64	75	73	77	80	88	89	134	148	77	125	18
15	68	72	70	79	77	85	90	121	145	72	199	19
16	72	71	70	83	76	85	91	120	140	65	118	19
17	76	73	72	84	76	85	91	114	132	63	95	16
18	81	71	71	81	80	85	103	155	130	60	77	17
19	74	69	73	80	79	86	98	173	129	105	60	20
20	71	82	76	80	80	88	106	129	126	118	51	19
21	73	101	76	80	78	89	118	115	123	85	48	20
22	72	83	74	78	80	90	131	110	122	73	48	20
23	70	76	74	79	81	89	132	164	125	61	50	21
24	69	74	74	79	78	86	109	235	122	60	52	22
25	66	73	75	78	81	90	99	261	117	194	50	25
26	67	73	76	79	83	107	99	227	118	110	55	28
27	68	90	76	86	82	98	92	769	113	73	49	31
28	70	109	75	92	77	89	92	2330	118	66	40	35
29	71	89	73	88	---	85	91	2510	110	66	33	46
30	69	85	73	82	---	85	95	1150	104	57	30	44
31	70	---	73	84	---	86	---	601	---	58	35	---
TOTAL	2088	2300	2192	2303	2263	2638	2874	12640	7026	3338	2852	733
MEAN	67.4	76.7	70.7	74.3	80.8	85.1	95.8	408	234	108	92.0	24.4
MAX	81	109	83	92	90	107	132	2510	983	355	462	46
MIN	59	69	52	50	76	64	85	110	104	57	30	16
AC-FT	4140	4560	4350	4570	4490	5230	5700	25070	13940	6620	5660	1450

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

MEAN	83.1	63.3	63.2	68.6	96.3	201	133	260	271	262	155	139
MAX	347	94.6	102	207	245	1140	762	1348	1145	2655	883	911
(WY)	1966	1994	1986	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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1954 - 1995

ANNUAL TOTAL	47767	43247	150
ANNUAL MEAN	131	118	127
MEDIAN OF ANNUAL MEANS			464
HIGHEST ANNUAL MEAN			1993
LOWEST ANNUAL MEAN			1976
HIGHEST DAILY MEAN	1640	May 29	14300
LOWEST DAILY MEAN	48	Feb 10	3.2
ANNUAL SEVEN-DAY MINIMUM	58	Feb 7	4.2
INSTANTANEOUS PEAK FLOW			25100
INSTANTANEOUS PEAK STAGE			14.67
ANNUAL RUNOFF (AC-FT)	94750	85780	108700
10 PERCENT EXCEEDS	188	167	197
50 PERCENT EXCEEDS	88	79	70
90 PERCENT EXCEEDS	62	49	43

KANSAS RIVER BASIN

191

06884000 LITTLE BLUE RIVER NEAR FAIRBURY, NE

LOCATION.--Lat 40°06'54", long 97°10'13", in NW1/4NE1/4 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 mi².

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.

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
11	115	133	173	e94	e118	e145	165	356	2450	213	147	93
2	112	136	173	e98	e125	e130	163	329	1410	212	147	92
3	113	137	168	e90	e125	e125	167	428	1010	209	159	92
4	114	140	162	e110	e120	e120	162	699	796	263	148	94
5	115	141	158	e116	e116	e110	159	539	710	304	158	87
6	117	143	146	e110	e110	e110	159	449	884	249	242	88
7	117	141	e80	e80	e102	e108	161	963	1410	408	263	75
8	118	143	e70	e88	e94	e106	164	2550	1100	389	241	70
9	117	141	e66	e94	e92	e100	167	2060	824	288	397	74
10	118	137	e80	e102	e96	e150	184	1400	658	247	318	75
11	118	137	e90	e110	e98	221	189	941	541	218	225	73
12	114	137	e100	e120	e96	226	183	822	466	203	182	83
13	107	139	e110	e130	e94	210	173	2020	410	189	155	71
14	114	140	e120	e135	e94	262	169	1180	377	172	849	62
15	118	139	e140	e140	e86	247	166	719	352	164	948	e58
16	126	136	164	e140	e110	224	163	494	331	162	363	e56
17	133	136	166	e135	e150	199	158	895	310	161	317	e70
18	137	138	173	e130	225	185	169	1490	293	153	246	e100
19	143	139	175	e125	200	182	167	2340	277	164	207	60
20	141	143	191	e125	183	179	222	1250	264	259	180	60
21	143	186	191	e125	170	171	248	658	254	302	159	62
22	140	207	189	e120	169	169	229	507	244	265	142	62
23	137	217	185	e120	167	166	218	612	239	205	129	62
24	137	209	171	e120	161	163	212	993	231	223	118	62
25	135	182	169	e116	163	164	210	843	254	238	106	69
26	133	169	169	e114	160	199	215	615	272	307	93	70
27	132	167	169	e118	159	184	221	2400	234	267	97	70
28	134	167	167	e120	157	176	204	6190	227	229	97	77
29	136	167	166	e120	---	179	192	4750	224	182	95	82
30	133	168	164	e118	---	175	191	3620	218	152	91	85
31	133	---	161	e116	---	169	---	2200	---	146	84	---
TOTAL	3900	4615	4606	3579	3740	5254	5550	45312	17270	7143	7103	2234
MEAN	126	154	149	115	134	169	185	1462	576	230	229	74.5
MAX	143	217	191	140	225	262	248	6190	2450	408	948	100
MIN	107	133	66	80	86	100	158	329	218	146	84	56
AC-FT	7740	9150	9140	7100	7420	10420	11010	89880	34260	14170	14090	4430

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

	MEAN	285	164	141	158	273	513	334	551	889	603	356	367
MAX	4406	653	282	594	1004	2821	2019	2419	4735	6413	2142	2189	
(WY)	1974	1947	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	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1910 - 1995

ANNUAL TOTAL	90746	110306	390	
ANNUAL MEAN	249	302	1239	1993
HIGHEST ANNUAL MEAN			107	1940
LOWEST ANNUAL MEAN			36400	Jul 26 1992
HIGHEST DAILY MEAN	2740	Mar 6	6190	May 28
LOWEST DAILY MEAN	66	Dec 9	56	Sep 16
ANNUAL SEVEN-DAY MINIMUM	85	Dec 7	62	Sep 19
INSTANTANEOUS PEAK FLOW			6850	May 8
INSTANTANEOUS PEAK STAGE			14.52	May 8
ANNUAL RUNOFF (AC-FT)	180000	218800	282700	Jul 25 1992
10 PERCENT EXCEEDS	394	569	590	
50 PERCENT EXCEEDS	189	162	160	
90 PERCENT EXCEEDS	117	92	91	

KANSAS RIVER BASIN

06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS

LOCATION.--Lat 39°58'48", long 97°00'16", NE1/4 SW1/4 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 mi².

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.

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 1994 TO SEPTEMBER 1995
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	158	211	e130	e160	178	206	517	3100	284	195	126
2	131	160	203	e125	e170	e165	202	556	2210	272	177	135
3	147	160	198	e120	e170	e155	199	525	1570	259	193	136
4	140	171	193	e125	e160	e145	196	1290	1290	314	185	134
5	155	176	186	e125	e155	e135	191	987	1150	429	181	132
6	173	172	e160	e120	e145	e150	194	666	1050	344	288	125
7	160	170	e130	e120	e135	e130	194	1530	1850	383	339	122
8	146	166	e120	e120	e125	e120	198	5550	1610	564	337	117
9	139	164	e120	e150	e120	e150	199	3590	1280	e480	389	119
10	138	163	e110	e160	e125	237	245	e2400	1030	e420	452	118
11	136	169	e120	e160	e130	267	274	e1600	843	e360	301	118
12	136	168	e120	e180	e125	256	254	e1500	706	e330	230	130
13	134	171	e130	e190	e120	256	234	e3400	632	e300	182	122
14	134	169	e140	e190	e125	345	223	e1800	571	e280	490	114
15	142	167	e170	e200	e135	344	216	e1150	515	e270	2280	110
16	157	166	e180	e200	e140	291	210	e740	475	e260	1540	108
17	175	171	e200	e195	e170	263	207	1350	437	e260	826	101
18	176	179	e220	e195	244	243	225	1880	409	e250	454	100
19	167	173	e240	e190	257	228	224	3410	386	e270	306	202
20	160	186	287	e185	231	223	297	2360	363	340	230	128
21	157	264	251	e180	214	214	377	1360	349	326	196	120
22	153	266	243	e175	208	208	307	985	333	370	173	115
23	144	266	242	e175	202	202	281	1150	323	265	158	110
24	145	247	224	e170	196	198	266	1780	333	375	147	107
25	146	215	224	e165	195	200	259	1570	336	252	142	108
26	147	205	228	e160	194	377	344	1270	426	397	129	109
27	149	210	222	e170	193	307	325	2670	338	342	126	108
28	150	209	216	e175	188	234	279	8660	322	301	128	107
29	153	199	212	e180	---	226	249	7130	311	249	125	115
30	153	204	209	e160	---	220	244	4770	301	192	124	114
31	158	---	216	e150	---	211	---	3210	---	193	120	---
TOTAL	4625	5664	5925	5040	4732	6878	7319	71356	24849	9931	11143	3610
MEAN	149	189	191	163	169	222	244	2302	828	320	359	120
MAX	176	266	287	200	257	377	377	8660	3100	564	2280	202
MIN	124	158	110	120	120	120	191	517	301	192	120	100
AC-FT	9170	11230	11750	10000	9390	13640	14520	141500	49290	19700	22100	7160

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	359	205	187	181	356	920	601	790	999	1202	585	429									
MAX	2163	405	424	576	1059	3816	2379	2302	4373	9014	2572	1320									
(WY)	1987	1993	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									

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1975 - 1995

ANNUAL TOTAL	134178	161072	
ANNUAL MEAN	368	441	570
MEDIAN OF ANNUAL MEANS			511
HIGHEST ANNUAL MEAN			1891
LOWEST ANNUAL MEAN			195
HIGHEST DAILY MEAN	3530	Mar 6	39300
LOWEST DAILY MEAN	110	Dec 10	26
ANNUAL SEVEN-DAY MINIMUM	121	Dec 7	27
INSTANTANEOUS PEAK FLOW			47800
INSTANTANEOUS PEAK STAGE		11.14	21.21
ANNUAL RUNOFF (AC-FT)	266100	319500	412600
10 PERCENT EXCEEDS	620	1000	979
50 PERCENT EXCEEDS	267	200	210
90 PERCENT EXCEEDS	140	125	105

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 1995

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Niobrara River Basin						
Niobrara River (06466000) and Mormon Canal	Missouri River	Lat 42° 44' 50", long 98° 03' 00", in SW1/4 sec.17, T.32 N., R.6W., Knox County, at bridge on State Highway 12, 0.8 mi southwest of Niobrara	12,250	1954-58	03-22-95 -River	33
					-Canal	2080
					04-25-95 -River	2780
					-Canal	4030
					08-31-95 -River	460
					-Canal	933
Platte River basin						
Akers Draw (06678610)	North Platte River	Lat 41° 58' 33", long 103° 53' 29", in NW1/4 SW1/4 sec.12, T.23 N., R.57W., Scotts Bluff County, at county road bridge, 2 mi northeast of Morrill.	---	1949-64	08-29-95	11
Sheep Creek	North Platte River	Lat 41° 58' 14", long 103° 57' 14", in SE1/4 SE1/2 sec.8, T.23 N., R.57 W., Scotts Bluff County, at county road bridge, 1.5 mi northwest of Morrill.	---	---	08-28-95	2.7
*Dane Creek (06788495)	North Loup River	Lat 41° 36' 31", long 98° 56' 36", in NE1/4 NE1/4 sec.20, T.19 N., R.14 W. Valley County, at bridge on State Highway 11 at northwest edge of Ord.	---	1962 1977-94	11-24-93 05-12-94	.72 2.6
*Mira Creek (06788990)	North Loup River	Lat 41° 29 '54", long 98° 46' 46", in SE1/4 SW1/4 sec.26, T.18 N.,R.13 W Valley County, at bridge on State. Highway 11 at west edge of North Loup.	---	1977-94	11-15-94 05-15-95	1.6 5.9
Loup River (06791150)	Platte River	Lat 41° 16' 34", long 98° 15' 05", in NE1/4 NE1/4 sec.17, T.15 N., R.8 W, Nance County, at county road bridge, 4.6 mi north of Palmer.	---	---	03-15-95 06-26-95 06-27-95 07-28-95	2,950 2,660 2,370 1,190

* Also published with additional data elsewhere in this report.

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 1995

Station No.	Station name	Location	Draiage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Kansas River basin							
06850000	Turkey Creek at Naponee, NE	Lat 40° 04' 34", long 99° 08' 17", in SW1/4 SW1/4 sec.4, T.1 N., R.16 W., Franklin County, on downstream side of county bridge at east side of Naponee.	129	*1948-53 a1954-61 b1962-77 a1978-89 1991-95	05-27-95	7.76	1470
06881450	Indian Creek at Beatrice, NE	Lat 40° 17' 08", long 96° 44' 47", in SE1/4 NE1/4 sec. 28, T.4 N., R.6 E., Gage County, at bridge on U.S.Highway 77 at north edge of Beatrice.	74.7	1960-89, 1991-95	05-08-95	14.10	3100

* 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.

LOW-FLOW INVESTIGATIONS

195

KANSAS RIVER BASIN

Low-flow investigations made in the Big Blue and Little Blue River basins in Nebraska during water year 1995 to obtain data on ground-water/surface-water relationships.

BIG BLUE RIVER BASIN

<i>Location</i>	<i>Observation of zero flow or measured discharge in cubic feet per second October 24, 1994</i>
Big Blue River 1.5 miles north of DeWitt in SW1/4 NE1/4 sec. 12, T.5 N., R.4 E.-----	187
Clatonia Creek 1 mile northeast of DeWitt in NW1/4 NW1/4 sec. 17, T.5 N., R.5 E.-----	0.80
Turkey Creek 1.5 miles west of DeWitt in SE1/4 NW1/4 sec. 15, T.5 N., R.4 E.-----	25.1
Turkey Creek 0.5 miles south of DeWitt in SE1/4 NW1/4 sec. 24, T.5 N., R.4 E.-----	26.8
Turkey Creek 1.5 miles southeast of DeWitt in NW1/4 SW1/4 sec. 29, T.5 N., R.5 E.-----	26.2
Big Blue River 2.5 miles southeast of DeWitt in NW1/4 NE1/4 sec. 33, T.5 N., R.5 E.-----	222
Soap Creek 3.5 miles southeast of DeWitt in SE1/4 SW1/4 sec. 27, T.5 N., R.5 E.-----	.11
Unnamed tributary to Big Blue River 1 mile north of Hoag in NW1/4 NE1/4 sec. 10, T.4 N., R.5 E.-----	0
Snake Creek 2 miles northeast of Hoag in NW1/4 NW1/4 sec. 1, T.4 N., R.5 E.-----	0
Big Blue River 1 mile east of Hoag in NE1/4 NW1/4 sec. 13, T.4 N., R.5 E.-----	235
Cub Creek 2 miles south of Hoag in SW1/4 SW1/4 sec. 24, T.4 N., R.5 E.-----	.96
Bottle Creek 1.5 miles northwest of Beatrice in NW1/4 SW1/4 sec. 30, T.4 N., R.6 E.-----	.06
Unnamed tributary to Big Blue River 0.5 miles northwest of Beatrice in SW1/4 SW1/4 sec. 29, T.4 N., R.6 E.-----	.23
Indian Creek at Beatrice in SE1/4 SE1/4 sec. 28, T.4 N., R.6 E.-----	2.0
Big Blue River at Beatrice in SW1/4 NW1/4 sec. 3, T.3 N., R.6 E. (Gage)-----	243

LITTLE BLUE RIVER BASIN

October 24, 1994

Little Blue River 2.7 miles south of Alexandria in SE1/4 SE1/4 sec. 23, T.3 N., R.1 W. (Gage)-----	95.4
Big Sandy Creek 0.8 miles south of Alexandria in SE1/4 SE1/4 sec. 11, T.3 N., R.1 W. (Gage)-----	22.7
Big Sandy Creek 1.2 miles west of Powell in SE1/4 SE1/4 sec. 16, T.3 N., R.1 E.-----	28.0
Little Blue River 1.2 miles southwest of Powell in SE1/4 SE1/4 sec. 22, T.3 N., R.1 E.-----	125
Little Sandy Creek 2.0 miles east of Powell in NW1/4 NE1/4 sec. 19, T.3 N., R.2 E.-----	1.01
Whiskey Creek 2.1 miles northwest of Fairbury in SW1/4 SE1/4 sec. 33, T.3 N., R.2 E.-----	.22
Little Blue River 1.3 miles northwest of Fairbury in NW1/4 NE1/4 sec. 9, T.2 N., R.2 E.-----	129
Trib. to Little Blue River 0.8 miles southwest of Fairbury in NE1/4 SW1/4 sec. 22, T.2 N., R.2 E.-----	0
Little Blue River 0.8 miles south of Fairbury in NW1/4 NE1/4 sec. 26, T.2 N., R.2 E. (Gage)-----	138
Brawner Creek 0.4 miles southeast of Fairbury in SE1/4 NE1/4 sec. 23, T.2 N., R.2 E.-----	<.05
Rose Creek 4.0 miles southwest of Endicott in NW1/4 NW1/4 sec. 12, T.1 N., R.2 E.-----	12.0
Smith Creek 0.2 miles northwest of Endicott in NW1/4 SE1/4 sec. 5, T.1 N., R.3 E.-----	.13
Little Blue River 0.3 miles south of Endicott in SE1/4 SW1/4 sec. 4, T.1 N., R.3 E.-----	147
Rock Creek 0.3 miles southeast of Endicott in SE1/4 SE1/4 sec. 4, T.1 N., R.3 E.-----	.42
Coon Creek 2.6 miles northwest of Steele City in NW1/4 NE1/4 sec. 15, T.1 N., R.3 E.-----	.28
Little Blue River 0.5 miles south of Steele City in NW1/4 NW1/4 sec. 30, T.1 N., R.4 E.-----	153
Little Blue River 0.6 miles west of Hollenberg in NE1/4 SW1/4 sec. 8, T.1 S., R.4 E. (Gage)-----	144

LOW-FLOW INVESTIGATIONS

PLATTE RIVER BASIN

SALT CREEK BASIN

Discharge measurements were made during water year 1995 at locations within the Salt Creek Basin in Lancaster County at Lincoln, Nebraska to coincide with water-quality sample collections.

<i>Location</i>			
Number	Name	Date	Discharge
06803080	Salt Creek at Pioneers Blvd.	8-29	12.6
06803082	Beal Slough at 56th St.	8-28	0.24
06803085	Beal Slough at Pioneers Blvd.	8-29	.53
06803093	Haines Branch at SW 56th St.	8-28	1.90
06803097	Haines Branch at Van Dorn St.	8-29	4.62
06803100	Salt Creek at South St.	8-29	20.7
06803170	Middle Creek at SW 40th St.	8-28	3.17
06803182	Middle Creek at .5 mi above mouth	8-29	3.82
06803185	Salt Creek at O St.	8-29	27.4
06803190	Salt Creek at 14th St.	8-29	31.6
068031985	Antelope Creek at 56th St.	8-28	.11
06803405	Antelope Creek at Court St.	8-29	2.03
06803480	Oak Creek at Highway 34.	8-28	18.4
06803487	Oak Creek at Airpark	8-29	18.8
06803493	Oak Creek at 14th St.	8-29	18.8
06803495	Salt Creek at Fairgrounds	8-29	55.0
		8-30	48.1
06803500	Salt Creek at 27th St.	8-30	68.2
068035008	Deadman's Run at 70th St.	8-29	.13
06803503	Deadman's Run at Cornhusker Highway.	8-29	1.34
06803505	Salt Creek at Superior St.	8-30	84.9
06803507	Little Salt Creek at 14th St.	8-29	.60
06803510	Little Salt Creek at 27th St.	8-30	2.52
068035108	Little Salt Creek near mouth	8-30	2.98
06803511	Salt Creek at landfill.	8-30	100
06803513	Salt Creek at 70th St.	8-30	89.9
06803514	Salt Creek below NE Treatment plant.	8-30	110
06803523	Stevens Creek at Highway 6.	8-30	2.83
06803525	Salt Creek below Stevens Creek	8-30	112

WATER DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE INST. (FT ³ /S) (00061)	SPECIFIC CONDUCTANCE (μS/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (°C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)
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06788495 DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)

NOV	15...	1330	0.72	823	7.8	4.5	18	390	120	23	24
MAY	15...	0900	2.6	909	7.9	12.0	50	410	120	27	21

06788990 MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)

NOV	15...	1055	1.6	824	8.1	5.0	28	390	110	28	30
MAY	15...	1115	5.9	735	8.0	15.5	23	340	96	24	24

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS-SOLVED (MG/L AS SO ₄) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
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06788495 DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)

NOV	15...	0.5	18	386	47	14	0.30	48	543	0.74	1.06
MAY	15...	0.5	28	375	110	15	0.20	27	584	0.79	4.10

06788990 MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)

NOV	15...	0.7	18	413	53	11	0.30	40	541	0.74	2.34
MAY	15...	0.6	20	334	64	11	0.30	26	470	0.64	7.49

DATE	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO ₂ +NO ₃ DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BORON, DIS-SOLVED (μG/L AS B) (01020)	IRON, DIS-SOLVED (μG/L AS Fe) (01046)	MANGANESE, DIS-SOLVED (μG/L AS Mn) (01056)
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06788495 DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)

NOV	15...	3.45	0.050	3.50	0.170	0.310	0.310	90	23	350
MAY	15...	1.55	0.050	1.60	0.240	0.840	0.780	80	18	690

06788990 MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)

NOV	15...	--	<0.010	0.310	<0.015	0.460	0.480	100	6	480
MAY	15...	0.400	0.030	0.430	0.250	0.500	0.450	80	5	680

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lincoln Storm Runoff

DATE	TIME	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER ($^{\circ}$ C) (00010)	TEMPER- ATURE AIR ($^{\circ}$ C) (00020)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	ALKA- LINITY LAB (MG/L AS CA CO_3) (90410)	RESIDUE AT 105 $^{\circ}$ C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 $^{\circ}$ C, SUS- PENDED (MG/L) (00530)
06803080 SALT CREEK AT PIONEERS BLVD AT LINCOLN, NE									
JUN									
27...	1100	804	8.2	20.0	26.5	28	282	504	50
27...	1105	801	8.2	21.5	25.5	16	284	498	45
27...	1110	--	--	--	--	<10	1.6	2	3
JUL									
04...	0030	820	8.3	--	--	35	281	504	52
04...	0130	791	8.5	--	--	--	271	480	134
04...	0230	775	8.8	--	--	46	263	472	186
04...	0330	769	8.2	--	--	32	260	466	182
04...	0430	762	8.5	--	--	43	261	472	170
04...	0530	764	8.4	--	--	--	260	460	430
AUG									
02...	1130	1060	7.9	22.5	25.5	530	286	648	44
02...	1135	1060	7.9	22.5	25.5	530	286	648	44
05...	2230	975	8.3	--	--	130	270	588	96
05...	2330	981	8.3	--	--	250	266	578	104
06...	0030	981	8.4	--	--	--	151	662	--
06...	0130	967	8.3	--	--	34	263	584	98
06...	0230	975	8.3	--	--	31	263	584	88
29...	0610	220	8.2	24.5	26.0	97	280	--	94
06803513 SALT CREEK AT 70th ST. AT LINCOLN, NE									
JUN									
27...	1430	4660	8.1	27.0	30.0	43	311	2650	37
27...	1435	4660	8.1	27.0	30.0	39	309	2690	47
JUL									
04...	0030	5290	8.6	--	--	96	299	3000	60
04...	0130	5080	8.5	--	--	100	300	3000	47
04...	0230	5220	8.5	--	--	58	280	2910	39
04...	0330	4820	8.3	--	--	110	296	2770	158
04...	0430	1840	7.9	--	--	240	173	1020	1250
04...	0530	2960	7.9	--	--	190	195	1660	1120
AUG									
02...	0930	7670	7.3	21.5	24.0	250	324	4530	27
02...	0935	7670	7.9	21.5	24.0	73	301	4500	12
05...	2130	--	7.1	--	--	--	286	3750	49
05...	2230	6490	8.3	--	--	--	--	--	--
05...	2330	4760	8.1	--	--	--	--	--	--
06...	0030	1190	7.7	--	--	--	--	--	--
06...	0130	3310	7.6	--	--	--	--	--	--
06...	0230	3390	7.6	--	--	--	--	--	--
30...	1400	7950	8.2	26.5	27.5	85	300	--	13

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

199

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lincoln Storm Runoff--Continued

DATE	RESIDUE VOLA- TILE, SUS- PENDED (MG/L) (00535)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
06803080 SALT CREEK AT PIONEERS BLVD AT LINCOLN, NE									
JUN									
27...	10	<0.015	0.38	0.70	0.040	2.40	0.280	0.340	--
27...	8	<0.015	0.31	0.50	0.040	2.50	0.300	0.310	--
27...	2	<0.015	<0.20	<0.20	<0.010	<0.050	0.010	<0.010	--
JUL									
04...	20	<0.015	0.28	1.2	0.020	1.20	0.110	0.290	79
04...	30	0.050	0.31	1.4	0.020	1.30	0.110	0.320	91
04...	32	<0.015	0.26	1.2	0.020	1.30	0.100	0.240	80
04...	28	<0.015	0.31	1.2	0.020	1.40	0.140	0.340	77
04...	26	0.050	0.26	1.0	0.020	1.10	0.100	0.270	22
04...	48	0.030	0.27	1.1	<0.010	1.40	0.130	0.440	81
AUG									
02...	24	0.020	<0.20	0.50	0.020	1.40	0.240	0.320	90
02...	24	0.020	<0.20	0.50	0.020	1.40	0.240	0.320	90
05...	28	<0.015	0.28	0.70	0.020	1.50	0.270	0.380	87
05...	20	0.040	0.33	0.90	0.020	1.90	0.270	0.400	86
06...	200	<0.015	0.28	0.70	0.020	1.80	0.280	0.370	30
06...	20	<0.015	0.30	0.70	0.020	1.50	0.270	0.370	85
06...	20	0.300	1.0	5.8	0.140	1.90	0.500	2.20	84
29...	--	0.030	0.26	0.50	--	1.10	0.330	0.350	88
06803513 SALT CREEK AT 70th ST. AT LINCOLN, NE									
JUN									
27...	5	0.170	0.64	0.90	0.050	3.10	0.440	0.470	--
27...	8	0.180	0.56	0.80	0.120	3.10	0.440	0.500	--
JUL									
04...	22	<0.015	0.42	1.2	0.210	2.80	0.210	0.420	78
04...	22	0.100	0.55	1.3	0.240	3.40	0.270	0.410	91
04...	14	0.160	0.58	1.3	0.250	3.50	0.240	0.380	87
04...	38	0.190	0.63	1.2	0.260	3.40	0.260	0.450	87
04...	120	0.350	0.90	2.0	0.040	1.60	0.120	1.30	43
04...	100	0.180	0.76	1.6	0.060	2.30	0.190	0.270	54
AUG									
02...	22	0.880	1.3	1.8	0.540	4.30	0.750	0.870	100
02...	7	1.00	1.4	1.5	0.580	4.60	0.800	0.780	96
05...	22	--	--	--	0.130	--	--	--	90
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
30...	--	1.10	1.8	2.1	--	3.30	1.00	1.10	86

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lincoln Storm Runoff--Continued

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	ALUM- INUM, DIS- SOLVED (µ G/L AS AL) (01106)	ARSENIC DIS- SOLVED (µ G/L AS AS) (01000)	CADMIUM DIS- SOLVED (µ G/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (µ G/L AS CR) (01030)	COPPER, DIS- SOLVED (µ G/L AS CU) (01040)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	LEAD, DIS- SOLVED (µ G/L AS PB) (01049)	MERCURY DIS- SOLVED (µ G/L AS HG) (71890)
06803080 SALT CREEK AT PIONEERS BLVD AT LINCOLN, NE									
JUN									
27...	--	10	6	<1.0	<1	2	4	<1	<0.1
27...	--	<10	6	<1.0	<1	4	6	<1	<0.1
27...	--	10	<1	<1.0	<1	<1	4	<1	<0.1
JUL									
04...	19	<10	6	<1.0	<1	2	3	<1	<0.1
04...	31	<10	5	<1.0	<1	1	4	<1	<0.1
04...	29	<10	6	<1.0	<1	1	13	<1	<0.1
04...	18	<10	6	<1.0	<1	1	3	<1	<0.1
04...	--	10	6	<1.0	2	1	17	<1	<0.1
04...	20	<10	6	<1.0	<1	5	6	<1	<0.1
AUG									
02...	21	<10	6	<1.0	<1	3	3	<1	<0.1
02...	21	<10	6	<1.0	<1	3	3	<1	<0.1
05...	20	<10	6	<1.0	<1	8	3	<1	<0.1
05...	19	10	6	<1.0	<1	8	3	<1	<0.1
06...	--	20	3	<1.0	<1	8	29	<1	<0.1
06...	20	20	6	<1.0	<1	15	3	<1	<0.1
06...	20	<10	7	<1.0	<1	16	3	<1	0.5
29...	22	--	--	--	--	--	--	--	--
06803513 SALT CREEK AT 70th ST. AT LINCOLN, NE									
JUN									
27...	--	<10	5	<1.0	<1	4	23	<1	0.2
27...	--	<10	5	<1.0	<1	2	17	<1	0.1
JUL									
04...	20	10	5	<1.0	<1	2	13	<1	0.3
04...	30	<10	5	<1.0	1	2	13	<1	0.3
04...	29	<10	5	<1.0	1	1	12	<1	0.2
04...	21	<10	5	<1.0	1	2	13	<1	0.2
04...	12	20	4	<1.0	2	2	27	<1	0.1
04...	17	<10	4	<1.0	<1	2	24	<1	0.1
AUG									
02...	34	--	5	<1.0	2	8	30	<2	<0.1
02...	34	<10	6	<1.0	<1	2	30	<2	0.1
05...	29	<10	5	<1.0	<1	21	20	<1	<0.1
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
30...	33	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

201

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Special Protection Areas (SPA) Hitchcock-Red Willow Counties

DATE	TIME	TEMPER- ATURE WATER (° C) (00010)	TEMPER- ATURE AIR (° C) (00020)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CON- DUCT- ANCE (µ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
06828500 REPUBLICAN RIVER AT STRATTON, NE (LAT 40 08 28N LONG 101 13 42W)						
AUG 1995 14...	1100	18.5	20.0	0.15	927	8.0
06835010 CULBERTSON CNL AT HW 25, 5 MI BLW DIV, NR PALISADE, NE (LAT 40 18 36N LONG 101 00 28W)						
AUG 1995 14...	1230	24.5	23.5	0.31	396	7.8
6835040 CULBERTSON EXT CNL AT CNTY RD, 3 MI N OF MCCOOK, NE (LAT 40 15 04N LONG 100 38 41W)						
AUG 1995 14...	1510	25.0	28.0	28.0	392	8.2
14...	1515	--	--	--	--	--
06835500 FRENCHMAN CREEK AT CULBERTSON, NE. (LAT 40 14 05N LONG 100 52 40W)						
AUG 1995 14...	1315	18.0	26.0	1.8	802	7.8
14...	1320	--	--	--	--	--
14...	1325	--	--	--	--	--
14...	1330	--	--	--	--	--
06837000 REPUBLICAN RIVER AT MCCOOK NE (LAT 40 11 15N LONG 100 37 05W)						
AUG 1995 14...	1610	25.5	26.5	126	707	8.1
14...	1615	--	--	--	--	--
06838560 REPUBLICAN RIVER AT BARTLEY, NE (LAT 40 14 07N LONG 100 18 21W)						
AUG 1995 15...	1800	30.0	30.0	42	830	8.6

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Hitchcock-Red Willow Counties SPA--Continued

DATE	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO ₄) (00660)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)
06828500 REPUBLICAN RIVER AT STRATTON, NE (LAT 40 08 28N LONG 101 13 42W)											
AUG 1995 14...	--	--	--	--	0.100	0.100	0.100	--	--	--	--
06835010 CULBERTSON CNL AT HW 25, 5 MI BLW DIV, NR PALISADE, NE (LAT 40 18 36N LONG 101 00 28W)											
AUG 1995 14...	--	--	--	--	0.500	0.500	0.500	--	--	--	--
6835040 CULBERTSON EXT CNL AT CNTY RD, 3 MI N OF MCCOOK, NE (LAT 40 15 04N LONG 100 38 41W)											
AUG 1995 14...	--	--	--	--	0.300	0.300	0.300	--	--	--	--
14...	8.3	--	--	--	0.300	0.300	0.300	--	--	160	38
06835500 FRENCHMAN CREEK AT CULBERTSON, NE. (LAT 40 14 05N LONG 100 52 40W)											
AUG 1995 14...	--	--	--	--	6.50	6.50	6.50	--	--	--	--
14...	8.0	--	--	--	--	--	--	--	--	300	78
14...	--	--	--	--	6.70	6.70	6.70	--	--	--	--
14...	--	0.020	0.070	7.43	7.43	7.50	7.50	0.09	0.030	--	--
06837000 REPUBLICAN RIVER AT MCCOOK NE (LAT 40 11 15N LONG 100 37 05W)											
AUG 1995 14...	--	--	--	--	--	--	--	--	--	--	--
14...	8.2	--	--	--	1.30	1.30	1.30	--	--	230	52
06838560 REPUBLICAN RIVER AT BARTLEY, NE (LAT 40 14 07N LONG 100 18 21W)											
AUG 1995 15...	--	--	--	--	1.40	1.40	1.40	--	--	--	--

203

Hitchcock-Red Willow Counties SPA--Continued

[illegible]

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Hitchcock-Red Willow Counties SPA--Continued

[illegible]

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

205

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Hitchcock-Red Willow Counties SPA--Continued

DATE	NITROGEN AMMONIA DIS- SOLVED (MG/L AS NH ₄) (71846)	NITROGEN, NITRATE DIS- SOLVED (MG/L AS NO ₃) (71851)	NITROGEN, NITRITE DIS- SOLVED (MG/L AS NO ₂) (71856)	SPECIFIC CONDUCT- ANCE LAB (μ S/CM) (90095)	ALKALINITY LAB (MG/L AS CaCO ₃) (90410)
06828500 REPUBLICAN RIVER AT STRATTON, NE (LAT 40 08 28N LONG 101 13 42W)					
AUG 1995 14...	--	--	--	--	--
06835010 CULBERTSON CNL AT HW 25, 5 MI BLW DIV, NR PALISADE, NE (LAT 40 18 36N LONG 101 00 28W)					
AUG 1995 14...	--	--	--	--	--
6835040 CULBERTSON EXT CNL AT CNTY RD, 3 MI N OF MCCOOK, NE (LAT 40 15 04N LONG 100 38 41W)					
AUG 1995 14...	--	--	--	--	--
AUG 1995 14...	--	--	--	383	177
06835500 FRENCHMAN CREEK AT CULBERTSON, NE. (LAT 40 14 05N LONG 100 52 40W)					
AUG 1995 14...	--	--	--	--	--
AUG 1995 14...	--	--	--	756	300
AUG 1995 14...	--	--	--	--	--
AUG 1995 14...	0.03	33	0.23	--	--
06837000 REPUBLICAN RIVER AT MCCOOK NE (LAT 40 11 15N LONG 100 37 05W)					
AUG 1995 14...	--	--	--	--	--
AUG 1995 14...	--	--	--	681	230
06838560 REPUBLICAN RIVER AT BARTLEY, NE (LAT 40 14 07N LONG 100 18 21W)					
AUG 1995 15...	--	--	--	--	--

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Holmes Lake Inflow

DATE	TIME	TEMPER- ATURE WATER (°C) (00010)	TEMPER- ATURE AIR (°C) (00020)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CON- DUCT- ANCE (μS/CM) (00095)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)
06803193	ANTELOPE CR, AT 84 ST, AT LINCOLN, NE					(LAT 40 45 30N	LONG 096 36 21W)		
MAY 1995									
08...	1230	15.0	--	1.5	3.50	660	50	7.5	7.4
JUN									
19...	1100	20.5	31.0	100	1.30	1030	15	7.8	7.5
06803196	ANTELOPE CR, PIONEERS & 75 ST, AT LINCOLN, NE					(LAT 40 46 11N	LONG 096 36 44W)		
APR 1995									
24...	1200	12.0	14.0	1.0	1.30	757	25	8.3	7.7
JUN									
05...	1000	13.0	17.0	1.0	1.32	--	27	7.9	7.7
JUL									
17...	1030	21.0	28.0	0.50	0.60	778	25	7.6	7.6
SEP									
12...	1035	17.0	19.0	0.30	1.82	693	26	7.9	7.4
06803197	ANTELOPE CR TRIB, PIONEERS & 63 ST, AT LINCOLN, NE					(LAT 40 46 12N	LONG 096 38 04W)		
MAY 1995									
22...	0900	16.0	18.5	2.0	1.95	485	59	7.6	7.4
JUL									
05...	0930	20.0	25.0	1.3	1.36	797	39	7.6	7.7
AUG									
14...	0930	22.0	21.5	1.4	0.14	630	62	7.7	7.6
SEP									
28...	1005	15.5	19.0	1.3	1.33	1050	12	8.3	7.9

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

207

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Holmes Lake Inflow--Continued

DATE	RESIDUE AT 105 °C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 °C, SUS- PENDED (MG/L) (00530)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L) (00535)	RESIDUE FIXED NON FILTER- ABLE (MG/L) (00540)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
06803193 ANTELOPE CR, AT 84 ST, AT LINCOLN, NE									
(LAT 40 45 30N LONG 096 36 21W)									
MAY 1995									
08...	420	264	18	246	2.1	1.4	1.2	0.47	0.110
JUN									
19...	616	21	7	14	1.2	1.2	0.37	0.32	0.130
06803196 ANTELOPE CR, PIONEERS & 75 ST, AT LINCOLN, NE									
(LAT 40 46 11N LONG 096 36 44W)									
APR 1995									
24...	456	22	7	15	0.87	0.66	0.67	0.46	0.030
JUN									
05...	458	21	1	20	1.1	0.95	0.81	0.65	0.090
JUL									
17...	528	87	14	73	1.1	0.89	0.61	0.41	0.090
SEP									
12...	422	10	<1	--	0.91	0.75	0.64	0.48	0.060
06803197 ANTELOPE CR TRIB, PIONEERS & 63 ST, AT LINCOLN, NE									
(LAT 40 46 12N LONG 096 38 04W)									
MAY 1995									
22...	328	152	20	132	2.7	1.8	1.8	0.94	0.160
JUL									
05...	530	6	8	0	2.1	1.9	1.0	0.85	0.090
AUG									
14...	426	10	<1	--	2.9	2.6	1.8	1.5	0.070
SEP									
28...	688	2	3	0	1.4	1.3	0.54	0.45	0.060

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Holmes Lake Inflow--Continued

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)
06803193	ANTELOPE CR, AT 84 ST, AT LINCOLN, NE							(LAT 40 45 30N	LONG 096 36 21W)		
MAY 1995											
08...	<0.010	--	0.800	0.58	1.3	0.800	0.800	0.350	0.160	200	57
JUN											
19...	0.010	0.700	0.700	0.45	0.50	0.710	0.710	0.240	0.190	460	130
06803196	ANTELOPE CR, PIONEERS & 75 ST, AT LINCOLN, NE							(LAT 40 46 11N	LONG 096 36 44W)		
APR 1995											
24...	0.010	0.160	0.160	0.49	0.70	0.170	0.170	0.180	0.060	270	73
JUN											
05...	0.030	0.180	0.180	0.74	0.90	0.210	0.210	0.120	0.090	270	74
JUL											
17...	<0.010	--	0.390	0.50	0.70	0.390	0.390	0.340	0.340	360	100
SEP											
12...	<0.010	--	0.210	0.54	0.70	0.210	0.210	0.280	0.190	240	60
06803197	ANTELOPE CR TRIB, PIONEERS & 63 ST, AT LINCOLN, NE							(LAT 40 46 12N	LONG 096 38 04W)		
MAY 1995											
22...	<0.010	--	0.670	1.1	2.0	0.670	0.670	0.340	0.140	200	55
JUL											
05...	<0.010	--	0.960	0.94	1.1	0.960	0.960	0.250	0.190	290	80
AUG											
14...	0.040	0.960	0.960	1.6	1.9	1.00	1.00	0.590	0.520	220	61
SEP											
28...	0.040	0.750	0.750	0.51	0.60	0.790	0.790	0.100	0.080	480	130

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

209

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Holmes Lake Inflow--Continued

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	ARSENIC TOTAL (µ G/L AS AS) (01002)	CADMIUM TOTAL RECOV- ERABLE (µ G/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (µ G/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (µ G/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (µ G/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (µ G/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (µ G/L AS MN) (01055)	ZINC, TOTAL RECOV- ERABLE (µ G/L AS ZN) (01092)	SELE- NIUM, TOTAL (µ G/L AS SE) (01147)
06803193	ANTELOPE CR, AT 84 ST, AT LINCOLN, NE						(LAT 40 45 30N	LONG 096 36 21W)		
MAY 1995										
08...	14	3	<1	5	7	6100	6	430	30	1
JUN 19...	33	5	<1	<1	1	440	<1	490	<10	1
06803196	ANTELOPE CR, PIONEERS & 75 ST, AT LINCOLN, NE						(LAT 40 46 11N	LONG 096 36 44W)		
APR 1995										
24...	21	4	<1	1	2	760	<1	300	<10	<1
JUN 05...	21	4	<1	<1	2	610	<1	300	<10	<1
JUL 17...	26	10	<1	2	3	1800	3	640	<10	<1
SEP 12...	21	7	<1	<1	1	500	<1	430	<10	<1
06803197	ANTELOPE CR TRIB, PIONEERS & 63 ST, AT LINCOLN, NE						(LAT 40 46 12N	LONG 096 38 04W)		
MAY 1995										
22...	14	4	<1	5	8	4400	5	420	30	<1
JUL 05...	23	5	<1	<1	5	560	<1	470	<10	2
AUG 14...	16	9	<1	1	7	520	<1	130	<10	1
SEP 28...	38	5	<1	<1	3	130	<1	160	<10	2

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Holmes Lake Inflow--Continued

DATE	OIL- GREASE (SEVER- ITY) (01300)	DETER- GENT SUDS (SEVER- ITY) (01305)	GARBAGE FLOAT- ING (SEVER- ITY) (01320)	ALGAE, FLOAT- ING MATS (SEVER- ITY) (01325)	ODOR, ATMOS- PHERIC (SEVER- ITY) (01330)	FISH, DEAD (SEVER- ITY) (01340)	DEBRIS, FLOAT- ING (SEVER- ITY) (01345)	TURBID- ITY (SEVER- ITY) (01350)
06803193 ANTELOPE CR, AT 84 ST, AT LINCOLN, NE						(LAT 40 45 30N	LONG 096 36 21W)	
MAY 1995								
08...	0	1	0	0	0	0	1	3
JUN								
19...	--	--	--	--	--	--	--	--
06803196 ANTELOPE CR, PIONEERS & 75 ST, AT LINCOLN, NE						(LAT 40 46 11N	LONG 096 36 44W)	
APR 1995								
24...	0	0	0	0	0	0	0	1
JUN								
05...	--	--	--	--	--	--	--	--
JUL								
17...	0	0	0	0	0	0	0	1
SEP								
12...	--	--	--	--	--	--	--	--
06803197 ANTELOPE CR TRIB, PIONEERS & 63 ST, AT LINCOLN, NE						(LAT 40 46 12N	LONG 096 38 04W)	
MAY 1995								
22...	--	--	--	--	--	--	--	--
JUL								
05...	0	0	0	0	0	0	0	1
AUG								
14...	--	--	--	--	--	--	--	--
SEP								
28...	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES AT MISCELLANEOUS WATER-QUALITY STATIONS

211

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Holmes Lake Inflow--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH ₄) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO ₃) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO ₂) (71856)	MERCURY TOTAL RECOV- ERABLE (μG/L AS HG) (71900)	SPECIFIC CON- DUCT- ANCE LAB (μS/CM) (90095)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)
06803193 ANTELOPE CR, AT 84 ST, AT LINCOLN, NE					(LAT 40 45 30N	LONG 096 36 21W)
MAY 1995						
08...	0.14	--	--	<0.10	651	245
JUN						
19...	0.17	3.1	0.03	<0.10	1020	406
06803196 ANTELOPE CR, PIONEERS & 75 ST, AT LINCOLN, NE					(LAT 40 46 11N	LONG 096 36 44W)
APR 1995						
24...	0.04	0.71	0.03	<0.10	724	274
JUN						
05...	0.12	0.80	0.10	<0.10	727	291
JUL						
17...	0.12	--	--	<0.10	824	342
SEP						
12...	0.08	--	--	<0.10	669	280
06803197 ANTELOPE CR TRIB, PIONEERS & 63 ST, AT LINCOLN, NE					(LAT 40 46 12N	LONG 096 38 04W)
MAY 1995						
22...	0.21	--	--	<0.10	512	201
JUL						
05...	0.12	--	--	<0.10	766	318
AUG						
14...	0.09	4.2	0.13	<0.10	586	187
SEP						
28...	0.08	3.3	0.13	<0.10	1030	404

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte Basin Ground-water/ Surface-water Interaction Study

DATE TIME	TEMPER- ATURE WATER (°C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CON- DUCT- ANCE (µ S/CM) (00095)	OXYGEN DISSOLVED (MG/L) (00300)
AUG 1995 28... 1545	415814103571401 6.0	23N 57W 8DDCC1 --	(LAT 41 58 14N LONG 103 57 14W) 2.7	856	12.4
AUG 1995 29... 0830	415727103554502 13.0	23N 57W15CCBB1 --	(LAT 41 57 27N LONG 103 55 45W) --	1040	4.1
AUG 1995 29... 0930	415535103554501 13.0	23N 57W28DDDD1 --	(LAT 41 55 35N LONG 103 55 45W) --	1560	2.1
AUG 1995 29... 1110	420129103514701 17.0	24N 56W30BDAD1 --	(LAT 42 01 29N LONG 103 51 47W) --	687	4.4
AUG 1995 29... 1030	420054103510101 18.0	24N 56W32BBAB1 675	(LAT 42 00 54N LONG 103 51 01W) --	764	5.8
AUG 1995 28... 1312	420316103563201 16.0	24N 57W16BDAA1 675	(LAT 42 03 16N LONG 103 56 32W) --	405	3.0
AUG 1995 28... 1530	420313103563101 16.0	24N 57W16BDAD1 670	(LAT 42 03 13N LONG 103 56 31W) --	388	5.6
AUG 1995 28... 1500	420313103563102 17.5	24N 57W16BDAD2 670	(LAT 42 03 13N LONG 103 56 31W) --	684	5.4
AUG 1995 28... 1435	420313103563103 18.0	24N 57W16BDAD3 670	(LAT 42 03 13N LONG 103 56 31W) --	703	4.8
AUG 1995 28... 1715	420234103564001 17.0	24N 57W16CDDA1 670	(LAT 42 02 34N LONG 103 56 40W) --	686	4.0
AUG 1995 28... 1650	420234103564002 17.5	24N 57W16CDDA2 670	(LAT 42 02 34N LONG 103 56 40W) --	705	4.6
AUG 1995 28... 1630	420234103564003 20.0	24N 57W16CDDA3 670	(LAT 42 02 34N LONG 103 56 40W) --	745	4.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte Basin Ground-water/ Surface-water Interaction Study--Continued

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, AMMONIA SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P) (00660)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
AUG 1995 28...	415814103571401 7.9	23N 0.02	57W 8DDCC1 0.034	(LAT 41 58 14N 4.57	LONG 103 57 14W) 4.57	4.60	4.60	0.02	0.007
AUG 1995 29...	415727103554502 7.2	23N 0.01	57W15CCBB1 0.018	(LAT 41 57 27N 9.58	LONG 103 55 45W) 9.58	9.60	9.60	0.13	0.042
AUG 1995 29...	415535103554501 7.5	23N 0.68	57W28DDDD1 0.005	(LAT 41 55 35N 0.012	LONG 103 55 45W) 0.012	0.017	0.017	0.52	0.170
AUG 1995 29...	420129103514701 8.0	24N 0.02	56W30BDAD1 <0.001	(LAT 42 01 29N --	LONG 103 51 47W) 0.850	0.850	0.850	0.09	0.029
AUG 1995 29...	420054103510101 7.7	24N 0.02	56W32BBAB1 0.001	(LAT 42 00 54N 1.80	LONG 103 51 01W) 1.80	1.80	1.80	0.10	0.033
AUG 1995 28...	420316103563201 7.8	24N 0.00	57W16BDAA1 <0.001	(LAT 42 03 16N --	LONG 103 56 32W) 5.50	5.50	5.50	0.02	0.006
AUG 1995 28...	420313103563101 7.7	24N <0.00	57W16BDAD1 <0.001	(LAT 42 03 13N --	LONG 103 56 31W) 5.00	5.00	5.00	0.01	0.002
AUG 1995 28...	420313103563102 7.5	24N 0.00	57W16BDAD2 <0.001	(LAT 42 03 13N --	LONG 103 56 31W) 0.360	0.360	0.360	0.02	0.007
AUG 1995 28...	420313103563103 7.4	24N 0.00	57W16BDAD3 <0.001	(LAT 42 03 13N --	LONG 103 56 31W) 0.450	0.450	0.450	0.02	0.005
AUG 1995 28..	420234103564001 7.3	24N 0.00	57W16CDDA1 <0.001	(LAT 42 02 34N --	LONG 103 56 40W) 2.20	2.20	2.20	0.04	0.012
AUG 1995 28...	420234103564002 7.5	24N 0.00	57W16CDDA2 0.004	(LAT 42 02 34N 1.50	LONG 103 56 40W) 1.50	1.50	1.50	0.04	0.012
AUG 1995 28...	420234103564003 7.6	24N 0.00	57W16CDDA3 0.012	(LAT 42 02 34N 1.99	LONG 103 56 40W) 1.99	2.00	2.00	0.04	0.013

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte Basin Ground-water/ Surface-water Interaction Study--Continued

DATE	NITROGEN, AMMONIA DIS- SOLVED (MG/L AS NH ₄) (71846)	NITROGEN, NITRATE DIS- SOLVED (MG/L AS NO ₃) (71851)	NITROGEN, NITRITE DIS- SOLVED (MG/L AS NO ₂) (71856)	RADON 222 TOTAL (PCI/L) (82303)
AUG 1995 28...	415814103571401 0.02	23N 57W 8DDCC1 20	(LAT 41 58 14N LONG 103 57 14W) 0.11	190
AUG 1995 29...	415727103554502 0.02	23N 57W15CCBB1 42	(LAT 41 57 27N LONG 103 55 45W) 0.06	300
AUG 1995 29...	415535103554501 0.88	23N 57W28DDDD1 0.05	(LAT 41 55 35N LONG 103 55 45W) 0.02	380
AUG 1995 29...	420129103514701 0.03	24N 56W30BDAD1 --	(LAT 42 01 29N LONG 103 51 47W) --	290
AUG 1995 29...	420054103510101 0.03	24N 56W32BBAB1 8.0	(LAT 42 00 54N LONG 103 51 01W) 0.00	320
AUG 1995 28...	420316103563201 0.00	24N 57W16BDAA1 --	(LAT 42 03 16N LONG 103 56 32W) --	420
AUG 1995 28...	420313103563101 --	24N 57W16BDAD1 --	(LAT 42 03 13N LONG 103 56 31W) --	410
AUG 1995 28...	420313103563102 0.00	24N 57W16BDAD2 --	(LAT 42 03 13N LONG 103 56 31W) --	310
AUG 1995 28...	420313103563103 0.00	24N 57W16BDAD3 --	(LAT 42 03 13N LONG 103 56 31W) --	340
AUG 1995 28...	420234103564001 0.00	24N 57W16CDDA1 --	(LAT 42 02 34N LONG 103 56 40W) --	300
AUG 1995 28...	420234103564002 0.01	24N 57W16CDDA2 6.6	(LAT 42 02 34N LONG 103 56 40W) 0.01	340
AUG 1995 28...	420234103564003 0.01	24N 57W16CDDA3 8.8	(LAT 42 02 34N LONG 103 56 40W) 0.04	300

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

215

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte Basin Ground-water/ Surface-water Interaction Study--Continued

DATE	TIME	TEMPER- ATURE WATER (°C) (00010)	TEMPER- ATURE AIR (°C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)
06678610 AKERS DRAW NEAR MORRILL, NE (LAT 41 58 33N LONG 103 53 29W)					
AUG 29...	1995 1150	16.5	30.0	675	11
06656630 INTERSTATE C 6 MI NW OF MORRILL, NE (LAT 42 03 26N LONG 103 57 06W)					
AUG 28...	1995 1300	23.5	32.0	--	--
06678500 NORTH PLATTE RIVER AT MORRILL, NE (LAT 41 56 12N LONG 103 55 44W)					
AUG 29...	1995 0845	17.5	18.0	675	10
06675100 TRI-STATE CANAL 2 MI W OF MORRILL, NE (LAT 41 58 08N LONG 103 55 44W)					
AUG 28...	1995 1445	24.0	33.0	675	--
415830103551701 WETLAND 0.75 MI NORTH OF MORRILL, NE (LAT 41 58 30N LONG 103 55 17W)					
AUG 29...	1995 0950	24.5	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte Basin Ground-water/Surface-water Interaction Study--Continued

DATE	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)
06678610 AKERS DRAW NEAR MORRILL, NE (LAT 41 58 33N LONG 103 53 29W)								
AUG 1995 29...	965	12.4	8.0	0.021	0.037	8.26	8.26	8.30
06656630 INTERSTATE C 6 MI NW OF MORRILL, NE (LAT 42 03 26N LONG 103 57 06W)								
AUG 1995 28...	733	8.2	8.7	<0.002	<0.001	--	--	--
06678500 NORTH PLATTE RIVER AT MORRILL, NE (LAT 41 56 12N LONG 103 55 44W)								
AUG 1995 29...	985	8.3	8.3	0.057	0.017	1.48	1.48	1.50
06675100 TRI-STATE CANAL 2 MI W OF MORRILL, NE (LAT 41 58 08N LONG 103 55 44W)								
AUG 1995 28...	759	7.9	7.9	0.003	0.003	0.397	0.397	0.400
415830103551701 WETLAND 0.75 MI NORTH OF MORRILL, NE (LAT 41 58 30N LONG 103 55 17W)								
AUG 1995 29...	1300	8.6	8.0	0.060	0.003	0.008	0.008	0.011

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

217

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte Basin Ground-water/Surface-water Interaction Study--Continued

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO ₄) (00660)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH ₄) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO ₃) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO ₂) (71856)	RADON 222 TOTAL (PCI/L) (82303)
06678610 AKERS DRAW NEAR MORRILL, NE (LAT 41 58 33N LONG 103 53 29W)							
AUG 1995 29...	8.30	0.10	0.032	0.03	37	0.12	340
06656630 INTERSTATE C 6 MI NW OF MORRILL, NE (LAT 42 03 26N LONG 103 57 06W)							
AUG 1995 28..	<0.005	--	<0.001	--	--	--	<24
06678500 NORTH PLATTE RIVER AT MORRILL, NE (LAT 41 56 12N LONG 103 55 44W)							
AUG 1995 29...	1.50	0.09	0.030	0.07	6.6	0.06	74
06675100 TRI-STATE CANAL 2 MI W OF MORRILL, NE (LAT 41 58 08N LONG 103 55 44W)							
AUG 1995 28...	0.400	--	<0.001	0.00	1.8	0.01	64
415830103551701 WETLAND 0.75 MI NORTH OF MORRILL, NE (LAT 41 58 30N LONG 103 55 17W)							
AUG 1995 29...	0.011	0.02	0.008	0.08	0.03	0.01	39

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage

DATE	TIME	DIS- CHARGE INST., CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/CM) (90095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE AIR (°C) (00020)	TEMPER- ATURE WATER (°C) (00010)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)
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MORRILL COUNTY

413458102512401	19N	48W33ABBD	1	NORTH PLATTE RIVER NEAR BROADWATER						
07-05-95	1045	--	800	790	8.3	8.0	--	19.0	260	200
07-31-95	1500	450	938	926	8.5	8.1	20.0	21.0	300	229
414131103054601	20N	50W21CBBA	1	UPPER DUGOUT CREEK						
03-30-95	1600	--	732	702	8.8	8.1	--	11.0	260	168
03-30-95	1600	--	732	--	8.8	--	--	11.0	--	--
08-03-95	1100	258	586	750	8.4	7.9	25.0	20.5	250	165
414054103055401	20N	50W29AADD	1	NORTH PLATTE RIVER NEAR BRODGEPORT						
03-27-95	1600	--	1060	1020	8.4	7.9	--	8.5	320	247

SCOTTS BLUFF COUNTY

414653103403001	21N	55W22ADAA	1	GERING DRAIN						
03-30-95	0900	--	1320	1280	8.0	7.4	--	7.0	190	341
03-30-95	0900	--	--	--	--	--	--	--	--	--
08-02-95	1330	48	835	819	8.2	7.8	32.5	22.0	220	182
415336103255601	22N	53W11CACA	1	9-MILE CREEK						
03-30-95	1230	--	842	829	8.2	7.6	--	12.5	300	205
03-30-95	1230	--	--	--	--	--	--	--	--	--
08-02-95	1630	19	817	802	8.1	7.8	27.5	20.0	310	198
415920103475301	23N	56W 3DDBC	1	SPOTTED TAIL CREEK						
03-28-95	1600	--	815	798	8.4	8.0	--	11.0	290	203
03-28-95	1600	--	--	--	--	--	--	--	--	--
08-01-95	1200	9.7	820	809	8.4	7.8	26.0	16.5	310	211
415814103571401	23N	57W8DDCC	1	SHEEP CREEK						
03-28-95	1100	--	885	854	8.2	7.7	--	6.0	300	212
03-28-95	1100	--	--	--	--	--	--	--	--	--
08-01-95	0930	2.7	900	891	8.1	7.8	17.0	15.0	320	222
415542104001401	23N	58W36BBBD	1	OWL CREEK						
03-29-95	1400	--	1650	1610	8.6	8.3	--	6.5	140	442
03-29-95	1400	--	--	--	--	--	--	--	--	--
08-02-95	1130	77	992	972	8.2	7.8	18.5	20.5	210	232
415942103374601	23N	54W 6CACA	1	LAKE ALICE						
03-29-95	1800	--	--	--	--	--	--	--	--	--
03-29-95	1800	--	--	--	--	--	--	--	--	--

GOSHEN COUNTY

421500104374001	26N	65W 2CCCC	1	WHALEN DAM						
03-29-95	1130	--	--	--	--	--	--	--	--	--
03-29-95	1130	--	670	725	8.3	7.3	--	2.5	240	160
08-02-95	0915	4460	686	667	8.2	7.9	22.0	18.0	210	126

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

219

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage--Continued

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (MG/L) (70300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MORRILL COUNTY										
07-05-95	506	550	72	20	70	36	2	7.2	200	16
07-31-95	574	647	86	20	80	36	2	9.5	220	21
03-30-95	423	503	79	15	44	26	1	8.4	160	15
03-30-95	--	--	--	--	--	--	--	--	--	--
08-03-95	464	520	72	18	54	31	1	7.2	200	13
03-27-95	626	688	90	22	100	40	2	11	230	24
SCOTTS BLUFF COUNTY										
03-30-95	762	858	55	13	200	68	6	13	240	35
03-30-95	--	--	--	--	--	--	--	--	--	--
08-02-95	507	559	62	17	85	44	2	8.5	210	15
03-30-95	498	602	92	18	52	26	1	8.6	190	14
03-30-95	--	--	--	--	--	--	--	--	--	--
08-02-95	494	586	91	20	51	26	1	8.8	190	14
03-28-95	484	570	78	22	57	30	1	8.3	180	16
03-28-95	--	--	--	--	--	--	--	--	--	--
08-01-95	503	581	86	23	56	28	1	7.1	190	14
03-28-95	520	603	85	21	59	29	1	11	200	16
03-28-95	--	--	--	--	--	--	--	--	--	--
08-01-95	538	640	90	22	57	27	1	10	210	15
03-29-95	968	1070	36	11	310	82	12	13	300	32
03-29-95	--	--	--	--	--	--	--	--	--	--
08-02-95	600	659	58	17	130	56	4	8.2	230	17
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
GOSHEN COUNTY										
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	435	467	60	23	55	32	2	4.6	180	16
08-02-95	417	438	54	19	54	35	2	3.4	200	11

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage--Continued

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	ALUM- INUM, DIS- SOLVED (µ G/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (µ G/L AS SB) (01095)	ARSENIC DIS- SOLVED (µ G/L AS AS) (01000)	BARIUM, DIS- SOLVED (µ G/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (µ G/L AS BE) (01010)	BORON, DIS- SOLVED (µ G/L AS B) (01020)	CADMIUM DIS- SOLVED (µ G/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (µ G/L AS CR) (01030)	COBALT, DIS- SOLVED (µ G/L AS CO) (01035)	COPPER, DIS- SOLVED (µ G/L AS CU) (01040)	LEAD, DIS- SOLVED (µ G/L AS PB) (01049)
MORRILL COUNTY												
07-05-95	0.40	6	<1	4	87	<1	90	<1.0	2	<1	2	<1
07-31-95	0.50	--	--	5	--	--	140	<1.0	<1	--	2	<1
03-30-95	0.50	5	<1	4	170	<1	120	<1.0	1	<1	2	<1
03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
08-03-95	0.40	--	--	3	--	--	100	<1.0	<1	--	6	<1
03-27-95	0.50	5	<1	6	100	<1	170	<1.0	2	<1	2	<1
SCOTTS BLUFF COUNTY												
03-30-95	0.60	4	<1	34	60	<1	400	<1.0	3	<1	2	<1
03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
08-02-95	0.40	--	--	8	--	--	140	<1.0	2	--	3	<1
03-30-95	0.50	3	<1	7	120	<1	130	<1.0	1	<1	2	<1
03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
08-02-95	0.50	--	--	5	--	--	120	<1.0	<1	--	1	<1
03-28-95	0.40	4	<1	5	120	<1	120	<1.0	1	<1	2	<1
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
08-01-95	0.40	--	--	4	--	--	110	<1.0	1	--	3	<1
03-28-95	0.50	3	<1	8	110	<1	100	<1.0	2	<1	1	<1
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
08-01-95	0.50	--	--	7	--	--	100	<1.0	<1	--	1	<1
03-29-95	0.80	3	<1	32	74	<1	310	<1.0	5	<1	4	<1
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
08-02-95	0.50	--	--	9	--	--	150	<1.0	<1	--	3	<1
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
GOSHEN COUNTY												
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	0.50	3	<1	1	58	<1	90	<1.0	1	<1	2	<1
08-02-95	0.30	--	--	2	--	--	70	<1.0	<1	--	4	<1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

221

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage--Continued

DATE	MANGANESE, DIS- SOLVED (μ G/L AS MN) (01056)	MERCURY DIS- SOLVED (μ G/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (μ G/L AS MO) (01060)	NICKEL, DIS- SOLVED (μ G/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (μ G/L AS SE) (01145)	SILVER, DIS- SOLVED (μ G/L AS AG) (01075)	VANA- DIUM, DIS- SOLVED (μ G/L AS V) (01085)	ZINC, DIS- SOLVED (μ G/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (μ G/L AS U) (22703)	CALCIUM BOT MAT <63 μ WS FIELD PERCENT (34830)	MAGNE- SIUM BOT MAT <63 μ WS FIELD PERCENT (34900)	SODIUM BOTMAT <63 μ WS FIELD PERCENT (34960)
------	--	---	--	---	--	---	---	---	---	---	--	---

MORRILL COUNTY

07-05-95	4	<0.1	4	10	4	<1.0	5	2	18	--	--	--
07-31-95	--	<0.1	<1	--	3	--	8	<3	--	--	--	--
03-30-95	1	<0.1	3	3	5	<1.0	14	6	19	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	2.5	0.54	1.3
08-03-95	--	<0.1	2	--	4	--	6	8	--	--	--	--
03-27-95	2	0.3	4	4	5	<1.0	9	2	34	--	--	--

SCOTTS BLUFF COUNTY

03-30-95	13	<0.1	7	2	8	<1.0	40	3	61	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	3.0	0.99	1.5
08-02-95	--	<0.1	4	--	5	--	10	7	--	--	--	--
03-30-95	3	<0.1	3	3	4	<1.0	13	2	29	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	1.9	0.52	1.5
08-02-95	--	<0.1	3	--	2	--	11	<3	--	--	--	--
03-28-95	7	<0.1	2	3	3	<1.0	11	4	27	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	1.8	0.51	1.4
08-01-95	--	<0.1	3	--	4	--	8	32	--	--	--	--
03-28-95	3	<0.1	2	3	4	<1.0	15	2	16	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	1.6	0.31	1.5
08-01-95	--	<0.1	3	--	1	--	12	11	--	--	--	--
03-29-95	4	<0.1	8	2	8	<1.0	29	5	50	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	4.1	0.40	2.2
08-02-95	--	<0.1	3	--	4	--	10	14	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	2.8	0.73	1.1

GOSHEN COUNTY

03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	28	<0.1	3	3	3	<1.0	1	2	13	--	--	--
08-02-95	--	<0.1	2	--	4	--	2	10	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage--Continued

	POTAS- SIUM	PHOS- PHORUS	ALUM- INUM	ANTI- MONY	ARSENIC	BARIUM	BERYL- LIUM	BISMUTH	CADMIUM	CERIUM	CHRO- MIUM	COBALT
	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOTMAT
DATE	<63µ WS FIELD PERCENT (34940)	<63µ WS FIELD PERCENT (34935)	<63µ WS FIELD PERCENT (34790)	<63µ WS FIELD (µ G/G) (34795)	<63µ WS FIELD (µ G/G) (34800)	<63µ WS FIELD (µ G/G) (34805)	<63µ WS FIELD (µ G/G) (34810)	<180µ WS FIELD (µ G/G) (34816)	<63µ WS FIELD (µ G/G) (34825)	<63µ WS FIELD (µ G/G) (34835)	<63µ WS FIELD (µ G/G) (34840)	<63µ WS FIELD (µ G/G) (34845)

MORRILL COUNTY

[illegible]

SCOTTS BLUFF COUNTY

03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	2.5	0.07	6.9	1	6	770	2	<10	0	65	28	7
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	2.3	0.04	5.6	<1	3	760	1	<10	0	46	17	6
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	2.1	0.04	5.1	1	3	830	1	<10	0	46	24	6
08-01-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	1.9	0.03	4.7	<1	2	720	<1	<10	<0	66	25	6
08-01-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	2.2	0.12	7.1	<1	4	950	1	<10	0	67	15	3
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	1.9	0.05	5.2	1	4	8	1	<10	0	63	37	8

GOSHEN COUNTY[illegible]

223

North Platte River Basin Irrigation Drainage--Continued

DATE	COPPER	SILVER	GALLIUM	GOLD	HOLMIUM	IRON	LANTHANUM	LEAD	LITHIUM	MANGANESE	MERCURY	MOLYBDENUM
	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS	<63μ WS
	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
	(μ G/G)	(μ G/G)	(μ G/G)	(μ G/G)	(μ G/G)	PERCENT	(μ G/G)	(μ G/G)	(μ G/G)	(μ G/G)	(μ G/G)	(μ G/G)
	(34850)	(34955)	(34860)	(34870)	(34875)	(34880)	(34885)	(34890)	(34895)	(34905)	(34910)	(34915)

MORRILL COUNTY[illegible]**SCOTTS BLUFF COUNTY**

03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	12	0	16	<8	<4	2.2	37	19	40	490	<0	<2
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	4	<0	10	<8	<4	1.4	31	11	20	280	<0	<2
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	6	<0	10	<8	<4	1.6	29	10	20	310	<0	<2
08-01-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	3	<0	10	<8	<4	1.8	44	15	10	330	<0	<2
08-01-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	3	<0	15	<8	<4	1.1	42	14	10	350	<0	<2
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	8	0	12	<8	<4	2.2	39	19	20	410	<0	<2

GOSHEN COUNTY

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage--Continued

[illegible]**MORRILL COUNTY**[illegible]**SCOTTS BLUFF COUNTY**

03-30-95	--	--	--	--	--	--	--	--	--	--	--	
03-30-95	27	11	9	<1.00	<1.00	8	340	0	<40	14	<10	6
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--	--	--
03-30-95	21	6	5	<1.00	<1.00	5	340	<0	<40	8	<10	3
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	22	8	6	<1.00	<1.00	5	290	<0	<40	9	<10	4
08-01-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	--	--	--	--	--	--	--	--	--	--	--	--
03-28-95	27	5	6	<1.00	<1.00	4	310	<0	<40	10	<10	2
08-01-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	32	6	<4	<1.00	<1.00	3	350	<0	<40	5	<10	2
08-02-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--	--
03-29-95	26	13	8	<1.00	<1.00	6	260	<0	<40	11	<10	4

GOSHEN COUNTY

[illegible]

225

North Platte River Basin Irrigation Drainage--Continued

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

North Platte River Basin Irrigation Drainage--Continued

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

227

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality

STATION NUMBER	RIVER	DATE	NITRO- GEN, NH ₄ TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH ₄ + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO- GEN, NO ₃ +NO ₂ TOT. IN BOT MAT (MG/KG AS N) (00633)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (μG/G) (01108)	ARSENIC TOTAL IN BOT- TOMMA- TERIAL (μG/G AS AS) (01003)
400048095232701	BIG NEMAHA R. (BY RULO)	10-26-94	110	1200	<2.0	450	13	8900	6
		06-20-95	16	810	3.0	360	7.8	6100	6
400048095232702		10-26-94	110	1200	<2.0	480	11	14000	6
		06-20-95	20	1100	3.0	430	11	9300	3
400111098093301	REPUBLICAN R. (BY SUPERIOR)	10-04-94	6.8	20	<2.0	55	3.6	1500	1
		04-19-95	2.1	20	3.0	130	1.9	1600	1
400111098093302		10-04-94	21	980	<2.0	180	8.5	3800	2
		04-19-95	41	40	<2.0	160	9.4	2800	<1
400325096351701	BIG BLUE R. (BY BARNESTON)	10-25-94	95	740	<2.0	470	10	8300	4
		06-21-95	16	670	4.0	570	9.1	6600	<1
400325096351702		10-25-94	120	1200	4.0	450	12	9700	3
		06-21-95	10	880	3.0	3100	9.7	5900	<1
400330097034501	LITTLE BLUE R. (BY STEELE CITY)	10-03-94	7.7	1300	<2.0	180	2.0	2400	2
		04-17-95	8.2	40	<2.0	130	1.1	2200	1
400330097034502		10-03-94	49	1200	<2.0	270	6.4	5600	4
		04-17-95	41	300	<2.0	250	8.7	3600	4
400425095243901	MISSOURI R. (BY RULO)	10-24-94	1.8	<20	3.0	150	3.3	2700	2
		04-24-95	--	--	--	--	--	--	--
400425095243902		04-24-95	2.7	<20	2.0	150	1.4	1500	1
		10-24-94	30	610	<2.0	390	12	6000	4
		04-24-95	90	540	3.0	550	12	14000	5
401938095413601	LITTLE NEMAHA (BY NEMAHA)	04-25-95	64	370	<2.0	410	8.4	9900	5
401938095413602		04-25-95	56	380	<2.0	350	8.8	4200	4
402202096513401	BIG BLUE R. (BY DEWITT)	06-27-95	7.8	350	4.0	88	1.7	1900	1
402202096513402		06-27-95	16	710	4.0	520	9.8	6300	1
404335098391801	PLATTE R. (NEAR WOOD R.)	10-12-94	2.2	<20	<2.0	52	0.3	1800	1
		05-17-95	8.2	60	<2.0	--	1.7	780	<1
404335098391802		10-12-94	13	330	<2.0	120	4.1	2300	1
		05-17-95	17	270	2.0	--	4.6	810	1
404913095570301	WEEPING WATER CR (BY NEMAHA)	06-26-95	28	950	3.0	460	12	8300	2
404913095570302		06-26-95	8.0	550	3.0	330	9.6	5900	2
410336095571001	PLATTE R. (BY HWY 75)	11-08-94	14	20	<2.0	370	2.4	3900	2
		04-13-95	8.1	30	<2.0	69	2.2	610	<1
410336095571002		11-08-94	85	620	<2.0	470	10	4400	5
		04-13-95	55	330	<2.0	440	13	3500	3
410808096183601	ELKHORN R. (BY ASHLAND)	11-01-94	11	<20	<2.0	52	28	2500	<1
		06-28-95	8.8	150	4.0	100	1.5	2700	<1
410808096183602		11-01-94	56	670	35	320	7.3	3700	2
		06-28-95	16	1100	3.0	420	9.1	6200	<1
412359097193201	LOUP R. (BY COLUMBUS)	10-11-94	6.2	30	<2.0	100	0.3	2000	<1
		07-03-95	15	380	<2.0	120	4.4	2100	<1
412359097193202		10-11-94	30	410	2.0	260	6.5	5100	2
		07-03-95	18	710	<2.0	240	21	4300	<1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	BORON, RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS B) (01023)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (μ G/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (μ G/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (μ G/G AS HG) (71921)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (μ G/G) (01148)	STRON- TIUM, RECOV. FM BOT- TOM MA- TERIAL (μ G/G) (01083)	ZINC, RECOV. FMBOT- TOM MA- TERIAL (μ G/G ASZN) (01093)
10-26-94	<10	<1	10	6	10	10000	10	540	0.03	<1	50	40
06-20-95	<10	<1	9	6	9	12000	<10	470	0.02	<1	30	30
10-26-94	<10	<1	10	10	20	12000	10	640	0.02	<1	60	50
06-20-95	<10	<1	10	10	10	16000	30	590	0.02	<1	40	50
10-04-94	<10	<1	2	6	1	2000	<10	90	<0.01	<1	20	4
04-19-95	<10	<1	2	6	2	2100	<10	100	<0.01	<1	20	6
10-04-94	<10	<1	6	6	5	4300	<10	270	<0.01	<1	40	20
04-19-95	<10	<1	4	6	3	3900	<10	140	<0.01	<1	30	10
10-25-94	<10	<1	10	6	10	11000	10	430	0.02	<1	30	40
06-21-95	<10	<1	8	6	8	9200	<10	280	0.01	<1	20	30
10-25-94	<10	<1	10	6	10	12000	10	550	0.02	<1	30	50
06-21-95	<10	<1	8	6	7	8000	<10	24	0.01	<1	20	30
10-03-94	<10	<1	2	6	2	4300	<10	110	<0.01	<1	9	9
04-17-95	<10	<1	3	6	4	5000	<10	230	<0.01	<1	8	30
10-03-94	<10	<1	5	6	8	11000	<10	41	0.01	<1	20	30
04-17-95	<10	<1	8	6	8	8100	<10	350	<0.01	<1	20	30
10-24-94	<10	<1	3	6	1	3800	<10	120	<0.01	<1	20	9
04-24-95	--	--	--	6	--	--	--	--	--	--	--	--
04-24-95	<10	<1	3	6	2	2700	<10	98	<0.01	<1	10	7
10-24-94	<10	<1	8	6	9	9500	10	570	0.02	<1	50	40
04-24-95	10	<1	20	10	20	17000	20	610	0.02	<1	40	60
04-25-95	10	<1	10	6	10	14000	10	460	0.02	<1	30	40
04-25-95	<10	<1	8	6	9	9300	10	380	0.02	<1	30	30
06-27-95	<10	<1	2	6	2	2600	<10	110	<0.01	<1	7	7
06-27-95	<10	<1	7	6	8	8900	<10	320	0.02	<1	20	30
10-12-94	<10	<1	2	6	1	1700	<10	120	<0.01	<1	10	1
05-17-95	<10	<1	1	6	2	1300	<10	3	<0.01	<1	250	60
10-12-94	<10	<1	2	6	2	2400	<10	110	<0.01	<1	30	7
05-17-95	<10	<1	1	6	2	1200	<10	5	<0.01	<1	600	50
06-26-95	<10	<1	10	6	10	13000	10	760	0.02	<1	30	40
06-26-95	<10	<1	9	6	7	7800	<10	250	0.02	<1	20	30
11-08-94	<10	<1	7	6	8	8700	10	380	0.01	<1	30	30
04-13-95	<10	<1	<1	6	2	8800	<10	23	<0.01	<1	3	3
11-08-94	<10	<1	8	6	10	9600	10	520	0.02	<1	30	40
04-13-95	<10	<1	9	6	10	7700	10	480	0.02	<1	60	30
11-01-94	<10	<1	4	6	2	3200	<10	130	<0.01	<1	10	8
06-28-95	<10	<1	4	6	3	4500	<10	160	<0.01	<1	10	10
11-01-94	<10	<1	6	6	7	7300	<10	460	0.01	<1	30	20
06-28-95	<10	<1	9	6	9	10000	<10	550	0.02	<1	30	40
10-11-94	<10	<1	2	6	1	1500	<10	33	<0.01	<1	10	4
07-03-95	<10	<1	3	6	2	2300	<10	81	<0.01	<1	10	6
10-11-94	<10	<1	5	6	6	600	<10	180	<0.01	<1	20	20
07-03-95	<10	<1	5	6	4	5000	<10	120	<0.01	<1	20	20

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

229

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	ACE- NAPHTH- ENE (μ G/KG) (34208)	ACE- NAPHTH- YLENE BOT.MAT (μ G/KG) (34203)	ANTHRA- CENE BOT.MAT (μ G/KG) (34223)	BENZO B FLUOR- AN- THENE BOT.MAT (μ G/KG) (34233)	BENZO A ANTHRAC- ENE1,2- BENZANT HRACENE BOT.MAT (μ G/KG) (34529)	BENZO- A- PYRENE BOT.MAT (μ G/KG) (34250)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE BOT.MAT (μ G/KG) (34524)	BENZO K FLUOR- AN- THENE BOT.MAT (μ G/KG) (34245)	BIS (2- CHLORO- ETHOXY) METHANE BOT.MAT (μ G/KG) (34281)	BIS (2- CHLORO- ETHYL) ETHER BOT.MAT (μ G/KG) (34276)	BIS (2- CHLORO- ISO- PROPYL) ETHER BOT.MAT (μ G/KG) (34286)	BIS(2- ETHYL HEXYL) PHTHAL- ATE BOT.MAT (μ G/KG) (39102)
10-26-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-20-95	--	--	--	--	--	--	--	--	--	--	--	--
10-26-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-20-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
10-04-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-19-95	--	--	--	--	--	--	--	--	--	--	--	--
10-04-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-19-95	--	--	--	--	--	--	--	--	--	--	--	--
10-25-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-21-95	--	--	--	--	--	--	--	--	--	--	--	--
10-25-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-21-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
10-03-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-17-95	--	--	--	--	--	--	--	--	--	--	--	--
10-03-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-17-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
10-24-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-24-95	--	--	--	--	--	--	--	--	--	--	--	--
10-24-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-24-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-25-95	--	--	--	--	--	--	--	--	--	--	--	--
04-25-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-27-95	--	--	--	--	--	--	--	--	--	--	--	--
06-27-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
10-12-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
05-17-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
10-12-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
05-17-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-26-95	--	--	--	--	--	--	--	--	--	--	--	--
06-26-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
11-08-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-13-95	--	--	--	--	--	--	--	--	--	--	--	--
11-08-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
04-13-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
11-01-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-28-95	--	--	--	--	--	--	--	--	--	--	--	--
11-01-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
06-28-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
10-11-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
07-03-95	--	--	--	--	--	--	--	--	--	--	--	--
10-11-94	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200
07-03-95	<200	<200	<200	<400	<400	<400	<400	<400	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	4-BROMO-PHENYL ETHER BOT.MAT (μ G/KG) (34639)	N-BUTYL BENZYL PHTHALATE BOT.MAT (μ G/KG) (34295)	2-CHLORO-NAPHTHALENE BOT.MAT (μ G/KG) (34584)	2-CHLORO-PHENOL BOT.MAT (μ G/KG) (34589)	4-CHLORO-PHENYL ETHER BOT.MAT (μ G/KG) (34644)	CHRYSENE BOT.MAT (μ G/KG) (34323)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (μ G/KG) (34559)	DI-N-BUTYL PHTHALATE BOT.MAT (μ G/KG) (39112)	1,2-DI-CHLORO-BENZENE BOT.MAT (μ G/KG) (34539)	1,3-DI-CHLORO-BENZENE BOT.MAT (μ G/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT.MAT (μ G/KG) (34574)	2,4-DI-CHLORO-PHENOL BOT.MAT (μ G/KG) (34604)
10-26-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-20-95	--	--	--	--	--	--	--	--	--	--	--	--
10-26-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-20-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
10-04-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-19-95	--	--	--	--	--	--	--	--	--	--	--	--
10-04-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-19-95	--	--	--	--	--	--	--	--	--	--	--	--
10-25-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-21-95	--	--	--	--	--	--	--	--	--	--	--	--
10-25-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-21-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
10-03-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-17-95	--	--	--	--	--	--	--	--	--	--	--	--
10-03-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-17-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
10-24-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-24-95	--	--	--	--	--	--	--	--	--	--	--	--
10-24-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-24-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-25-95	--	--	--	--	--	--	--	--	--	--	--	--
04-25-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-27-95	--	--	--	--	--	--	--	--	--	--	--	--
06-27-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
10-12-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
05-17-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
10-12-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
05-17-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-26-95	--	--	--	--	--	--	--	--	--	--	--	--
06-26-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
11-08-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-13-95	--	--	--	--	--	--	--	--	--	--	--	--
11-08-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
04-13-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
11-01-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-28-95	--	--	--	--	--	--	--	--	--	--	--	--
11-01-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
06-28-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
10-11-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
07-03-95	--	--	--	--	--	--	--	--	--	--	--	--
10-11-94	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200
07-03-95	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

231

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	DIETHYL- PHTHAL- ATE BOT.MAT (μ G/KG) (34339)	METHYL- PHTHAL- ATE BOT.MAT (μ G/KG) (34344)	4,6- DINITRO- CRESOL BOT.MAT (μ G/KG) (34660)	2,4- DI- NITRO- PHENOL BOT.MAT (μ G/KG) (34619)	2,4-DI- NITRO- TOLUENE BOT.MAT (μ G/KG) (34614)	2,6-DI- NITRO- TOLUENE BOT.MAT (μ G/KG) (34629)	DI-N- OCTYL- PHTHAL- ATE BOT.MAT (μ G/KG) (34599)	2,4-DP, IN BOTTOM MAT. (μ G/KG) (34609)	FLUOR- ANTHENE BOT.MAT (μ G/KG) (34379)	FLUOR- ENE BOT.MAT (μ G/KG) (34384)	HEXA- CHLORO- CYCLO- ADIENE BOT.MAT (μ G/KG) (34389)	HEXA- CHLORO- ETHANE BOT.MAT (μ G/KG) (34399)
10-26-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-20-95	--	--	--	--	--	--	--	--	--	--	--	--
10-26-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-20-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
10-04-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-19-95	--	--	--	--	--	--	--	--	--	--	--	--
10-04-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-19-95	--	--	--	--	--	--	--	--	--	--	--	--
10-25-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-21-95	--	--	--	--	--	--	--	--	--	--	--	--
10-25-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-21-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
10-03-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-17-95	--	--	--	--	--	--	--	--	--	--	--	--
10-03-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-17-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
10-24-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-24-95	--	--	--	--	--	--	--	--	--	--	--	--
10-24-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-24-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-25-95	--	--	--	--	--	--	--	--	--	--	--	--
04-25-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-27-95	--	--	--	--	--	--	--	--	--	--	--	--
06-27-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
10-12-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
05-17-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
10-12-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
05-17-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-26-95	--	--	--	--	--	--	--	--	--	--	--	--
06-26-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
11-08-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-13-95	--	--	--	--	--	--	--	--	--	--	--	--
11-08-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
04-13-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
11-01-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-28-95	--	--	--	--	--	--	--	--	--	--	--	--
11-01-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
06-28-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
10-11-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
07-03-95	--	--	--	--	--	--	--	--	--	--	--	--
10-11-94	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200
07-03-95	<200	<200	<600	<600	<200	<200	<400	<200	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	INDENO (1,2,3- CD) PYRENE BOT.MAT (μ G/KG) (34406)	ISO- PHORONE BOT.MAT (μ G/KG) (34411)	NAPHTH- ALENE BOT.MAT (μ G/KG) (34445)	NITRO- BENZENE BOT.MAT (μ G/KG) (34450)	2- NITRO- PHENOL BOT.MAT (μ G/KG) (34594)	4- NITRO- PHENOL BOT.MAT (μ G/KG) (34649)	N-NITRO- SODI- METHY- LAMINE BOT.MAT (μ G/KG) (34441)	N- NITRO- SODI-N- PROPYL- AMINE BOT.MAT (μ G/KG) (34431)	N-NITRO- SODI- PHENY- LAMINE BOT.MAT (μ G/KG) (34436)	PARA- CHLORO- META CRESOL BOT.MAT (μ G/KG) (34455)	PCN, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39251)	PENTA- CHLORO- PHENOL BOT.MAT (μ G/KG) (39061)
10-26-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-20-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-26-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-20-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
10-04-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-19-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-04-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-19-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-25-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-21-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-25-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-21-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
10-03-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-17-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-03-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-17-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
10-24-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-24-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-24-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-24-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-25-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
04-25-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-27-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
06-27-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
10-12-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
05-17-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
10-12-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
05-17-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-26-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
06-26-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
11-08-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-13-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
11-08-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
04-13-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
11-01-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-28-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
11-01-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
06-28-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
10-11-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
07-03-95	--	--	--	--	--	--	--	--	--	--	<1.00	--
10-11-94	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600
07-03-95	<400	<200	<200	<200	<200	<600	<200	<200	<200	<600	<1.00	<600

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

233

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	PHENOL (C6H- 5OH) BOT.MAT (μ G/KG) (34695)	PHENAN- THRENE BOT.MAT (μ G/KG) (34464)	PYRENE BOT.MAT (μ G/KG) (34472)	1,2,4- TRI- CHLORO- BENZENE BOT.MAT (μ G/KG) (34554)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39351)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (μ G/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (μ G/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (μ G/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39383)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39389)
10-26-94	<200	<200	<200	<200	0.200	<1.00	<0.100	<0.100	<0.100	<0.800	<0.100
06-20-95	--	--	--	--	0.100	<1.00	0.100	0.100	0.600	0.500	<0.100
10-26-94	<200	<200	<200	<200	0.200	<1.00	<0.100	<0.100	<0.100	<0.800	<0.100
06-20-95	<200	<200	<200	<200	0.100	<1.00	0.100	0.100	0.200	0.700	<0.100
10-04-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	0.200	<0.100	<0.800	<0.100
04-19-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
10-04-94	<200	<200	<200	<200	0.100	<1.00	<0.100	0.200	<0.100	<0.800	<0.100
04-19-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
10-25-94	<200	<200	<200	<200	<0.100	<1.00	0.200	0.100	<0.100	<0.800	<0.100
06-21-95	--	--	--	--	<0.100	1.00	0.300	0.300	0.300	0.400	<0.100
10-25-94	<200	<200	<200	<200	0.100	<1.00	0.200	0.100	<0.100	<0.800	<0.100
06-21-95	<200	<200	<200	<200	<0.100	1.00	0.300	0.300	0.300	0.400	<0.100
10-03-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	0.100	<0.100	<0.800	<0.100
04-17-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
10-03-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	0.100	<0.100	<0.800	<0.100
04-17-95	<200	<200	<200	<200	<0.100	<1.00	0.100	0.100	<0.100	0.100	<0.100
10-24-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.800	<0.100
04-24-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
10-24-94	<200	<200	<200	<200	0.100	<1.00	0.300	0.200	0.200	<0.800	<0.100
04-24-95	<200	<200	<200	<200	<0.100	<1.00	0.300	0.300	0.200	<0.400	<0.100
04-25-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	0.400	<0.100
04-25-95	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	0.400	<0.100
06-27-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.100	<0.100
06-27-95	<200	<200	<200	<200	0.100	1.00	0.300	0.300	0.200	0.400	<0.100
10-12-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.800	<0.100
05-17-95	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
10-12-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.800	<0.100
05-17-95	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
06-26-95	--	--	--	0.200	<1.00	0.200	0.200	<0.100	1.00	<0.100	
06-26-95	<200	<200	<200	<200	0.200	1.00	0.200	0.100	0.100	0.900	<0.100
11-08-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.800	<0.800
04-13-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
11-08-94	<200	<200	<200	<200	<0.100	<1.00	0.200	0.200	0.900	<0.800	<0.800
04-13-95	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.400	<0.100
11-01-94	<200	<200	<200	<200	<0.100	<1.00	<0.100	<0.100	<0.100	<0.800	<0.100
06-28-95	--	--	--	--	<0.100	<1.00	<0.100	<0.100	<0.100	<0.100	<0.100
11-01-94	<200	<200	<200	<200	0.100	<1.00	<0.100	0.100	<0.100	<0.800	<0.100
06-28-95	<200	<200	<200	<200	<0.100	1.00	0.200	0.300	0.200	0.300	<0.100
10-11-94	<200	<200	<200	<200	<0.100	<1.00	0.100	0.200	<0.100	<0.800	<0.100
07-03-95	--	--	--	--	<0.100	<1.00	0.100	0.200	<0.100	0.100	<0.100
10-11-94	<200	<200	<200	<200	<0.100	<1.00	0.200	0.300	<0.100	<0.800	<0.100
07-03-95	<200	<200	<200	<200	<0.100	<1.00	0.200	0.300	<0.100	0.200	<0.100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued

DATE	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39393)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (μ G/KG) (39423)	HEXA- CHLORO- BENZENE TOT. IN BOTTOM MATL. (μ G/KG) (39701)	HEXA- CHLORO- BUT- ADIENCE BOT.MAT (μ G/KG) (39705)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (μ G/KG) (39481)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39758)	PCB, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39519)	PER- THANE IN BOT- TOM MA- TERIAL (μ G/KG) (81886)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG) (39403)
10-26-94	<0.800	<0.100	<0.800	<200	<200	<0.100	<1.60	<0.100	1.00	<1.00	<10.0
06-20-95	<0.200	<0.100	0.100	--	--	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-26-94	<0.800	<0.100	<0.800	<200	<200	<0.100	<1.60	<0.100	<1.00	<1.00	<10.0
06-20-95	<0.200	<0.100	0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-04-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-19-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
10-04-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-19-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
10-25-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	1.00	<1.00	<10.0
06-21-95	<0.200	<0.100	0.100	--	--	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-25-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	2.00	<1.00	<10.0
06-21-95	<0.100	<0.100	0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-03-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-17-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
10-03-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-17-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-24-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-24-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
04-24-95	--	--	--	--	--	--	--	--	--	--	--
10-24-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	3.00	<1.00	<10.0
04-24-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
04-25-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
04-25-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
06-27-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
06-27-95	<0.100	<0.100	0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-12-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
05-17-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
10-12-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
05-17-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
06-26-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
06-26-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
11-08-94	<0.100	<0.100	<0.800	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-13-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
11-08-94	<0.100	<0.100	<0.800	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
04-13-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.400	<0.100	<1.00	<1.00	<10.0
11-01-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
06-28-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.100	<0.100	<1.00	<1.00	<10.0
11-01-94	<0.100	0.200	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
06-28-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-11-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
07-03-95	<0.100	<0.100	<0.100	--	--	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
10-11-94	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0
07-03-95	<0.100	<0.100	<0.100	<200	<200	<0.100	<0.800	<0.100	<1.00	<1.00	<10.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

235

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality
(Herbicides)

Concentrations of triazine and related herbicides and selected metabolites detected in overbank and streambed sediment from selected sites in eastern Nebraska, 1994-95 [SB1, composited streambed sediment; SB2, discrete streambed sediment; OB, overbank stream sediment; μ G/KG, micrograms per kilogram; <, less than; --, not analyzed.

STATION NUMBER	LOCAL ID	DATE	SAMPLE MEDIUM	ACET- OCHLOR, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	ALA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	AMET- RYN, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	ATRA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	CYAN- AZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	CYANAZINE AMIDE, TOTAL TOT. IN BOT MA- TERIAL (μ G/KG)
404335098391801	Platte nr Wood River	10-12-94	SB1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		05-17-95	SB1	<.5	<.5	1.2	.5	<.5	--
404335098391802		10-12-94	SB2	<.5	<.5	<.5	<.5	<.5	<.5
		05-17-95	SB2	<.5	<.5	1.2	3.4	<.5	--
410336095571001	Platte HW 75	11-08-94	SB1	<.5	<.5	<.5	<.5	<.5	<.5
		04-13-95	SB1	<.5	<.5	<.5	<.5	<.5	--
410336095571002		11-08-94	SB2	<.5	1.4	1.4	1.0	<.5	<.5
		04-13-95	SB2	<.5	2.5	2.1	.8	<.5	--
412359097193201	Loup	10-11-94	SB1	<.5	<.5	<.5	<.5	<.5	<.5
		07-03-95	SB1	<.5	<.5	<.5	<.5	<.5	<.5
412359097193202		10-11-94	SB2	<1	<1	<1	<1	<1	--
		07-03-95	SB2	<1	2.0	<1	<1	<1	<1
410808096183601	Elkhorn	11-01-94	SB1	<.5	<.5	.5	<.5	<.5	<.5
		06-28-95	SB1	<1	<1	<1	1.7	<1	--
410808096183602		11-01-94	SB2	<.5	1.1	1.3	1.0	<.5	<.5
		06-28-95	SB2	<1	<1	<1	3.4	<1	--
400111098093301	Republican	10-04-94	SB1	<.5	<.5	<.5	<.5	<.5	<.5
		04-19-95	SB1	<.5	<.5	<.5	<.5	<.5	--
400111098093302		10-04-94	SB2	<.5	1.1	<.5	<.5	<.5	<.5
		04-19-95	SB2	<.5	1.0	<.5	5.4	<.5	--
400330097034501	Little Blue	10-03-94	SB1	--	--	--	--	--	--
		04-17-95	SB1	<.5	<.5	<.5	<.5	<.5	--
400330097034502		10-03-94	SB2	<.5	1.7	2.6	1.8	<.5	<.5
		04-17-95	SB2	1.0	2.2	1.37	1.2	<.5	--
402202096513401	Big Blue nr DeWitt	09-27-94	SB1	<.5	1.2	.9	1.0	<.5	<.5
		06-27-95	SB1	<1	<1	<1	2.2	<1	--
402202096513402		09-27-94	SB2	<.5	3.5	1.9	1.8	<.5	<.5
		06-27-95	SB2	<1	8.8	<1	16.6	1.44	<1
402328096540801	Near DeWitt1	09-20-94	OB	<.5	5.8	<.5	6.1	<.5	<.5
402258096534401	Near DeWitt2	09-20-94	OB	<.5	10.0	1.2	3.8	<.5	<.5
402241096540801	Near DeWitt3	09-20-94	OB	<.5	22.8	<.5	11.1	<.5	<.5
400325096351701	Big Blue nr Barneston	10-25-94	SB1	<.5	5.1	4.2	1.8	<.5	<.5
		06-21-95	SB1	<.5	32.8	<.5	26	<.5	--
400325096351702		10-25-94	SB2	<.5	15.8	4.4	4.0	<.5	<.5
		06-21-95	SB2	<1	38.2	<1	20.7	1.6	<1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued
(Herbicides)

LOCAL ID	DATE	DEETHYL ATRA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)	DEISO- PROPYL ATRA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)	METOL- ACHLOR TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)	PROM- ETON, TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)	PROPA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)	PROP- AZINE, TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)	SIMA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (µ G/KG)
Platte nr Wood River	10-12-94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05-17-95	<.5	<.5	<.5	<.5	--	<.5	<.5
	10-12-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	05-17-95	<.5	<.5	2.0	<.5	--	<.5	<.5
Platte HW 75	11-08-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	04-13-95	<.5	<.5	<.5	<.5	--	<.5	<.5
	11-08-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	04-13-95	<.5	<.5	1.3	<.5	--	<.5	<.5
Loup	10-11-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	07-03-95	<1	<1	<1	<1	--	<1	<1
	10-11-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	07-03-95	<1	<1	1.4	<1	<1	<1	<1
Elkhorn	11-01-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	06-28-95	<1	<1	<1	<1	--	<1	<1
	11-01-94	<.5	<.5	.5	<.5	<.5	<.5	<.5
	06-28-95	<1	<1	2.0	<1	--	<1	<1
Republican	10-04-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	04-19-95	<.5	<.5	<.5	<.5	--	<.5	<.5
	10-04-94	<.5	<.5	1.2	<.5	<.5	<.5	<.5
	04-19-95	<.5	<.5	<.5	<.5	--	<.5	<.5
Little Blue	10-03-94	--	--	--	--	--	--	--
	04-17-95	<.5	<.5	<.5	<.5	--	<.5	<.5
	10-03-94	0.5	<.5	1.7	<.5	<.5	<.5	<.5
	04-17-95	<.5	<.5	4.8	<.5	--	<.5	<.5
Big Blue nr DeWitt	09-27-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	06-27-95	<1	<1	1.5	<1	--	<1	<1
	09-27-94	<.5	<.5	1.2	<.5	<.5	<.5	<.5
	06-27-95	1.9	<1	11.9	<1	<1	<1	<1
Near DeWitt1	09-20-94	2.4	1.4	2.8	<.5	<.5	<.5	<.5
Near DeWitt2	09-20-94	<.5	<.5	3.2	<.5	<.5	<.5	<.5
Near DeWitt3	09-20-94	<.5	<.5	4.9	<.5	<.5	<.5	<.5
Big Blue nr Barneston	10-25-94	<.5	<.5	1.1	<.5	<.5	<.5	<.5
	06-21-95	<.5	<.5	18.8	<.5	--	<.5	<.5
	10-25-94	<.5	<.5	2.3	<.5	<.5	<.5	<.5
	06-21-95	1.9	<1	15.7	<1	<1	<1	<1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

237

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued
(Herbicides)

STATION NUMBER	LOCAL ID	DATE	SAMPLE MEDIUM	ACET- OCHLOR, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	ALA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	AMET- RYN, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	ATRA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	CYAN- AZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	CYANAZINE AMIDE, TOTAL TOT. IN BOT MA- TERIAL (μ G/KG)
404913095570301	Weeping Water	09-26-94	SB1	<0.5	0.9	<0.5	2.2	<0.5	<0.5
		06-26-95	SB1	<1	<1	<1	14.2	9.5	<1
404913095570302		09-26-94	SB2	<.5	<.5	<.5	<0.5	<.5	<.5
		06-26-95	SB2	<1	<1	<1	10.4	7.0	<1
404937095592001	Near Nehawka1	09-22-94	OB	<.5	819	<.5	271	576	250
404917095565901	Near Nehawka2	09-22-94	OB	<.5	1.2	<.5	3.3	<.5	<.5
404915095581001	Near Nehawka3	09-22-94	OB	<.5	<.5	<.5	36.1	<.5	<.5
401938095413601	Little Nemaha	09-28-94	SB1	<.5	12.1	2.2	11.6	<.5	<.5
		04-25-95	SB1	<.5	11.2	2.5	5.0	<.5	-
401938095413602		09-28-94	SB2	<.5	9.4	2.1	7.8	<.5	<.5
		04-25-95	SB2	1.1	5.4	1.1	5.6	<.5	-
400048095232701	Big Nemaha	10-26-94	SB1	<.5	22.1	3.6	7.0	<.5	<.5
		06-20-95	SB1	<.5	27.1	<.5	23.0	<.5	-
400048095232702		10-26-94	SB2	<.5	25.7	4.4	6.7	<.5	<.5
		06-20-95	SB2	<.5	29.5	<.5	22.4	<.5	-
400425095243901	Missouri	10-24-94	SB1	<.5	<.5	<.5	<.5	<.5	<.5
		04-24-95	SB1	<.5	<.5	<.5	<.5	<.5	-
400425095243902		10-24-94	SB2	<.5	<.5	<.5	<.5	<.5	<.5
		04-24-95	SB2	<.5	1.3	<.5	.6	<.5	-
400303095251701	Near Rulo1	09-21-94	OB	<.5	1.3	<.5	1.9	<.5	<.5
400141095240801	Near Rulo2	09-21-94	OB	<.5	1.6	<.5	2.7	<.5	<.5
400231095250901	Near Rulo3	09-21-94	OB	<.5	6.7	<.5	3.9	<.5	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Streambed Sediment Quality--Continued
(Herbicides)

LOCAL ID	DATE	DEETHYL ATRA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	DEISO- PROPYL ATRA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	METOL- ACHLOR TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	PROM- ETON, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	PROPA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	PROP- AZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)	SIMA- ZINE, TOTAL IN BOT- TOM MA- TERIAL (μ G/KG)
Weeping Water	09-26-94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06-26-95	1.76	<1	2.3	<1	<1	<1	<1
	09-26-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	06-26-95	<1	<1	1.8	<1	<1	<1	<1
Near Nehawka1	09-22-94	6.1	11.5	185	23	9.0	8.3	2.5
Near Nehawka2	09-22-94	<.5	<.5	.9	<.5	<.5	<.5	<.5
Near Nehawka3	09-22-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Little Nemaha	09-28-94	<.5	<.5	5.6	<.5	<.5	<.5	<.5
	04-25-95	<.5	<.5	2.1	<.5	--	<.5	<.5
	09-28-94	<.5	<.5	4.5	<.5	<.5	<.5	<.5
	04-25-95	<.5	<.5	1.8	<.5	--	<.5	<.5
Big Nemaha	10-26-94	<.5	<.5	4.2	<.5	<.5	<.5	<.5
	06-20-95	<.5	<.5	4.9	<.5	--	<.5	<.5
	10-26-94	<.5	<.5	4.2	<.5	<.5	<.5	<.5
	06-20-95	<.5	<.5	6.9	<.5	--	<.5	<.5
Missouri	10-24-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
	04-24-95	<.5	<.5	<.5	<.5	--	<.5	<.5
	10-24-94	<.5	<.5	.9	<.5	<.5	<.5	<.5
	04-24-95	<.5	<.5	1.7	<.5	--	<.5	<.5
Near Rulo1	09-21-94	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Near Rulo2	09-21-94	<.5	<.5	1.0	<.5	<.5	<.5	<.5
Near Rulo3	09-21-94	<.5	<.5	2.6	<.5	<.5	<.5	<.5

GROUND-WATER LEVELS

239

ADAMS COUNTY

403403098244001. Local number 7N 10W 23AB.

LOCATION.--Lat 40°34'03", long 98°24'40", NW1/4 NE1/4 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, 1935 lowest, 128.82 ft below land-surface datum, July 10, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 07	115.80	DEC 13	112.23	JAN 16	111.66	MAR 21	111.20	JUN 06	110.66		
NOV 29	112.45	DEC 22	113.06	FEB 17	111.50	APR 13	111.12	AUG 08	115.38		

BLAINE COUNTY

414958100061501. Local number 22N 24W 33CA.

LOCATION.--Lat 41°49'58", long 100°06'15", NE1/4 SW1/4 sec. 33, T. 22 N., R. 24 W., Hydrologic Unit 10210001, approximately 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 07	4.70	JAN 05	4.02	May 08	1.75						

GROUND-WATER LEVELS

BOONE COUNTY

413323098074501. Local number 18N 7W 4CA.

LOCATION.--Lat 41°33'23", long 98°07'45", NE1/4 SW1/4 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	9.82	MAY 19	8.38								

BOX BUTTE COUNTY

420945102551501. Local number 25N 48W 4DDD.

LOCATION.--Lat 42°09'45", long 102°55'15", SE1/4 SE1/4 SE1/4 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 2.00 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, 108.48 ft below land-surface datum, Mar. 31, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	107.36	MAR 27	108.37								

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 03	32.53	NOV 02	32.42								

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	18.05	17.88	17.94	17.78	17.72	17.63	17.52	17.40	15.86	14.86	17.95	19.61
10	18.02	17.94	17.95	17.75	17.67	17.58	17.52	17.22	15.66	14.72	18.44	19.52
15	17.87	17.98	17.85	17.74	17.73	17.71	17.51	17.25	15.40	15.15	19.44	19.47
20	17.94	17.83	17.85	17.82	17.75	17.58	17.46	17.06	15.23	17.07	19.57	19.53
25	17.97	17.87	17.81	17.80	17.60	17.55	17.43	16.95	15.09	17.78	19.87	19.35
EOM	17.90	17.95	17.87	17.66	17.83	17.62	17.44	16.10	15.03	18.28	19.90	19.21

WATER YEAR 1995:	HIGHEST	14.30	JUL 14, 1995
	LOWEST	20.17	AUG 29, 1995

BUFFALO COUNTY

404345098560001. Local number 9N 14W 19DD.

LOCATION.--Lat 40°43'45", long 98°56'00", SE1/4 SE1/4 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 2,102.16 ft. Measuring point: Hole in pump base 0.70 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

BUTLER COUNTY

411420097173002. Local number 15N 1E 27DD2.

LOCATION.--Lat 41°14'20", long 97°17'30", SE1/4 SE1/4 sec.27, T.15 N., R.1 E., Hydrologic Unit 10270201, 2 mi north of the northeast corner of Rising City. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in, depth 210.0 ft, perforated 199 to 210 ft.

DATUM.--Altitude of land-surface datum is 1,618 ft. Measuring point: Top of platform, at land-surface datum.

REMARKS.--Replacement for 411420097173001, local number 15N-1E-27DD, period of record June 1958 to January 1977.
Water levels in well affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 95.62 ft below land-surface datum, June 6, 1995; lowest, 174.50 ft below land-surface datum, Aug. 3, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	99.43	---	97.20	97.00	96.71	96.53	96.48	96.17	95.77	103.65	---	---
10	99.10	---	97.20	96.79	96.58	96.50	96.20	95.90	95.75	128.00	169.60	---
15	98.77	---	97.10	96.74	96.67	96.50	96.20	96.00	96.33	153.11	169.35	125.00
20	---	97.49	97.01	96.76	96.65	96.30	96.20	96.01	97.51	163.20	---	120.05
25	---	97.43	97.03	96.78	96.61	96.33	96.27	96.03	97.92	---	---	116.07
EOM	---	97.21	96.75	96.73	96.70	96.50	96.17	95.91	104.00	---	---	112.30

WATER YEAR 1995:	HIGHEST	95.62	JUN 6, 1995
	LOWEST	170.67	AUG 11, 1995

403220101384001. Local number 7N 38W 28CC.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 25	108.08	MAY 15	104.94								

403235101395501. Local number 7N 38W 29CBB.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	94.62	94.07	93.64	92.98	92.62	92.27	91.73	91.43	90.93	91.65	94.48	95.70
10	94.49	94.05	93.54	93.02	92.52	92.14	91.76	91.38	90.92	92.40	94.71	93.50
15	94.29	94.08	93.44	92.90	92.63	92.26	91.71	91.37	91.21	93.26	95.14	95.29
20	94.38	93.82	93.34	92.94	92.48	92.03	91.53	91.28	91.15	92.00	95.06	95.41
25	94.29	93.69	93.25	92.82	92.28	91.94	91.46	91.15	90.80	92.27	95.69	95.00
EOM	94.17	93.73	93.22	92.65	92.47	91.90	91.47	91.00	90.78	94.31	95.83	94.92

WATER YEAR 1995:	HIGHEST	90.72	JUL 1, 1995
	LOWEST	96.47	AUG 30, 1995

423205100321501. Local number 30N 28W 36AAA.

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.

[illegible]

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.15 ft below land-surface datum, Apr. 1, 1952; lowest, 10.68 ft below land-surface datum, Oct. 29, 1980.

[illegible]

424100103243501. Local number 31N 52W 3DC.

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.

[illegible]

404949099445701. Local number 10N 21W 18DDD.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.20 ft below land-surface datum, July 24 and 25, 1993; lowest, 21.50 ft below land-surface datum, July 16, 1981.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	9.61	10.20	10.54	10.72	10.83	11.04	11.11	10.41	7.77	7.12	7.29	8.00
10	9.78	10.31	10.59	10.74	10.86	11.03	11.16	9.62	6.99	7.75	8.22	7.53
15	9.91	10.41	10.60	10.74	10.92	11.09	11.18	9.20	6.93	8.16	8.03	7.89
20	9.97	10.40	10.64	10.79	10.90	11.09	11.06	9.04	7.09	7.99	7.59	8.16
25	10.04	10.43	10.62	10.80	10.91	11.12	10.86	9.00	7.09	8.07	8.23	8.26
EOM	10.15	10.50	10.71	10.78	11.02	11.13	10.74	7.93	7.09	7.19	8.20	8.44

WATER YEAR 1995:	HIGHEST	6.76	AUG 1, 1995
	LOWEST	11.17	MAR 28, 1995

GROUND-WATER LEVELS

DUNDY COUNTY

400155101521302. Local number 1N 40W 29BB2.

LOCATION.--Lat 40°01'55", long 101°52'13", NW1/4 NW1/4 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, 20.97 ft below land-surface datum, Sept. 13, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	19.88	19.35	18.79	18.32	17.98	17.77	17.63	17.41	17.20	17.57	17.22	18.43
10	19.60	19.20	18.71	18.26	17.94	17.73	17.58	17.37	17.16	17.40	17.58	18.32
15	19.80	19.10	18.66	18.20	17.91	17.72	17.55	17.35	17.11	17.73	17.91	18.49
20	19.46	19.00	18.58	18.15	17.86	17.70	17.52	17.32	17.08	17.46	17.83	18.92
25	19.31	18.92	18.54	18.10	17.81	17.66	17.46	17.29	17.08	17.33	18.21	18.55
EOM	19.58	18.84	18.42	18.03	17.79	17.66	17.44	17.24	17.33	17.25	18.55	18.38

WATER YEAR 1995: HIGHEST 17.06 JUN 26, 1995
 LOWEST 20.16 OCT 3, 1994

FILLMORE COUNTY

402504097432201. Local number 5N 4W 12BDC.

LOCATION.--Lat 40°25'04", long 97°43'22", SW1/4 SE1/4 NW1/4 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 1.5 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 current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 90.85 ft below land-surface datum, June 8, 1978; lowest, 101.53 ft below land-surface datum, Sept. 9, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 10	95.69	NOV 30	95.14	DEC 22	94.92	FEB 20	94.25	APR 13	93.64	AUG 08	95.52
NOV 23	95.23	DEC 13	95.08	JAN 16	97.28	MAR 16	93.95	JUN 06	92.64		

FILLMORE COUNTY

403800097300701. Local number 8N 2W 26AD.

LOCATION.--Lat 40°38'00", long 97°30'07", SE1/4 NE1/4 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	5.70	JAN 10	4.37	MAR 13	3.63	JUN 06	2.00				
DEC 19	4.83	FEB 10	3.39	APR 13	4.04	AUG 08	5.23				

GARFIELD COUNTY

414718099083201. Local number 21N 16W 14CB.

LOCATION.--Lat 41°47'18", long 99°08'32", NW1/4 SW1/4 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	23.23										

GOSPER COUNTY

403626099451401. Local number 7N 21W 6BC

LOCATION.--Lat 40°36'26", long 99°45'14", SW1/4 NW1/4 sec.2, 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, 35.04 ft below land-surface datum, Nov. 04, 1993; lowest, 117.80 ft below land-surface datum, Sept. 26, 1935.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

HALL COUNTY

405315098304302. Local number 11N 11W 25CC2.

LOCATION.--Lat 40°53'15", long 98°30'43", SW1/4 SW1/4 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 25CC, 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, 12.68 ft below land-surface datum, July 10, 1995; lowest, 25.98 ft below land-surface datum, Aug. 31, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	14.59	---	16.47	16.49	14.55	14.51	14.48	14.50	13.51	12.77	13.64	14.39
10	14.59	---	16.47	---	14.49	14.48	14.46	14.45	13.26	12.70	13.72	14.47
15	14.51	---	16.48	---	14.56	14.54	---	14.36	13.09	12.82	13.78	14.49
20	---	14.47	16.48	---	14.58	14.45	14.45	14.22	12.99	13.00	13.93	14.54
25	---	14.48	16.48	---	14.48	14.45	14.46	14.15	12.89	13.21	14.00	14.48
EOM	---	16.50	16.49	14.50	14.60	14.52	14.53	13.79	12.84	13.50	14.22	14.48

WATER YEAR 1995:	HIGHEST	12.68	JUL	10, 1995
	LOWEST	16.50	NOV	30, 1994

404836097584101 Local number 10N 6W 27ACAA.

AQUIFER.--Sand and gravel deposits of the Pleistocene age.

DATUM.--Altitude of land surface datum is 1791.3 ft. Measuring point: Top of casing 1.5 ft above land surface datum.

PERIOD OF RECORD.--October 1980 to current year.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	92.61	91.75	91.14	90.47	90.14	89.69	89.27	89.04	89.04	---	93.13	95.45
10	92.46	91.63	91.07	90.40	90.10	89.57	89.25	---	---	88.78	92.63	96.05
15	92.26	91.58	90.89	90.30	90.10	89.60	89.22	---	---	89.12	93.26	96.06
20	92.15	91.39	90.83	90.33	89.92	89.48	89.14	---	---	91.27	94.03	95.61
25	92.03	91.28	90.68	90.27	89.73	89.40	89.04	---	---	92.34	94.89	94.98
EOM	91.82	91.17	90.65	90.05	89.88	89.35	89.05	---	---	92.92	94.82	94.75

WATER YEAR 1995:	HIGHEST	88.55	JUN 6, 1995
	LOWEST	96.25	SEP 14, 1995

405514097573901. Local number 11N 6W 13CB

LOCATION.--Lat 40°55'14", long 97°57'39", NW1/4 SW1/4 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, 90.04 ft below land-surface datum, Sept. 29, 1934; lowest, 117.18 ft below land-surface datum, Nov. 15, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

GROUND-WATER LEVELS

HARLAN COUNTY

400920099215501. Local number 2N 18W 9BCC.

LOCATION.--Lat 40°09'20", long 99°21'55", SW1/4 SW1/4 NW1/4 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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	90.65	90.21	90.03	89.78	89.66	89.46	89.34	89.22	88.91	89.48	102.04	102.16
10	90.56	90.27	89.98	---	89.57	89.36	89.31	89.22	88.99	94.40	99.01	92.69
15	90.37	90.30	89.90	---	89.62	89.55	89.29	89.28	88.91	99.85	96.43	93.08
20	90.44	90.06	89.88	89.76	89.59	89.36	89.24	89.11	89.01	96.88	99.28	92.02
25	90.41	89.99	89.81	89.72	89.47	89.34	89.19	89.05	90.27	100.42	102.53	91.61
EOM	90.29	90.10	89.87	89.59	89.68	89.35	89.26	88.99	94.46	99.31	100.30	91.48

WATER YEAR 1995: HIGHEST 88.70 MAY 27, 1995
 LOWEST 103.06 AUG 24, 1995

HOLT COUNTY

421605098203001. Local number 27N 9W 34DA.

LOCATION.--Lat 42°16'05", long 98°20'30", NE1/4 SE1/4 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	7.73	DEC 19	7.26	MAR 20	6.77	JUN 14	5.82				
NOV 09	7.76	FEB 01	6.77	APR 26	4.44	JUL 26	8.52				

WATER YEAR 1995:	HIGHEST	28.72	JULY	3, 1995
	LOWEST	33.51	OCT	1, 1994

GROUND-WATER LEVELS

KEARNEY COUNTY

402625098594501. Local number 6N 15W 34DC.

LOCATION.--Lat 40°26'25", long 98°59'45", SW1/4 SE1/4 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 2,210 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, 67.38 ft below land-surface datum, June 14, 1994; lowest, 119.05 ft below land-surface datum, July 25, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 27	73.01	MAY 10	67.27								

KEARNEY COUNTY

403354098553702. Local number 7N 14W 20BA2.

LOCATION.--Lat 40°33'54", long 98°55'37", NE1/4 NW1/4 sec.20, T.7 N., R.14 W., Hydrologic Unit 10270206, 1.4 mi east and 4.5 mi north of intersection of U.S. Highway 6 and State Highway 10 in Minden. Owner: Gary Dornhoff.

AQUIFER.--Sand deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in, depth 214 ft.

DATUM.--Altitude of land-surface datum is 2,150 ft. Measuring point: 0.30 ft above land-surface datum.

PERIOD OF RECORD.--October 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.27 ft below land-surface datum, Oct. 2, 1987; lowest, 61.33 ft below land surface datum, Oct. 8, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

KIMBALL COUNTY

411416103361101. Local number 15N 55W 26CCC.

LOCATION.--Lat 41°14'18", long 103°36'15", SW1/4 SW1/4 SW1/4 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 4,652.3 ft. Measuring point: Top of casing 0.00 ft above land-surface datum.

REMARKS.--Local well number formerly listed as 15N 55W 26CC. 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, 54.07 ft below land-surface datum, Oct. 18, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03	54.92	MAR 27	52.97								

LANCASTER COUNTY

403929096401001. Local number 8N 7E 18DDB.

LOCATION.--Lat 40°39'29", long 96°40'10", NW1/4 SE1/4 SE1/4 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	11.78										

LANCASTER COUNTY

403833096385501. Local number 8N 7E 20DDA.

LOCATION.--Lat 40°38'33", long 96°38'55", NE1/4 SE1/4 SE1/4 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 33 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.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, .16 ft below land-surface datum, Mar. 27, 1960; lowest, 12.28 ft below land-surface datum, Oct. 17, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]**LANCASTER COUNTY**

404706096413001. Local number 10N 6E 36CDD.

LOCATION.--Lat 40°47'06", long 96°41'30", SE1/4 SE1/4 SW1/4 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 1.00 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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

255

414058103054001. Local number 20N 50W 28BBC.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.88 ft below land-surface datum, May 10, 1983; lowest, 15.95 ft below land-surface datum, Mar. 25, 1992.

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 15	15.61	MAR 20	14.93								

400240098111301. Local number 1N 8W 23AB

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		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 29	4.34	MAY 12	1.35								

PHELPS COUNTY

403123099261501. Local number 6N 19W 2AA.

LOCATION.--Lat 40°31'23", long 99°26'15", NE1/4 NE1/4 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 2,360.81 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, 37.86 ft below land-surface datum, Oct. 13, 1989; lowest, 123.70 ft below land-surface datum, Mar. 9, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 18	38.45	OCT 27	37.55	MAY 17	38.41						

PLATTE COUNTY

412955097192001. Local number 18N 1E 28CD.

LOCATION.--Lat 41°29'55", long 97°19'20", SE1/4 SW1/4 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 0.50 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, 60.30 ft below land-surface datum, Mar. 27, 1940; lowest, 72.81 ft below land-surface datum, Oct. 9, 1958.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 22	65.17	MAY 10	64.80								

GROUND-WATER LEVELS

257

SALINE COUNTY

403855097072501. Local number 8N 3E 19ADA.

LOCATION.--Lat 40°38'55", long 97°07'25", NE1/4 SE1/4 NE1/4 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, 93.32 ft below land-surface datum, May 31, 1988; lowest, 107.15 ft below land-surface datum, Aug. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02	99.49	JAN 09	96.94	MAR 10	96.13	JUN 06	95.36				
DEC 13	97.35	FEB 10	96.44	APR 13	96.00	AUG 08	101.45				

SARPY COUNTY

410308096190701. Local number 13N 10E 32DBBA.

LOCATION.--Lat 41°03'08", long 96°19'07", NE1/4 NW1/4 NW1/4 SE1/4 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.

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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15	3.92	DEC 14	3.52	MAR 10	4.15	AUG 17	4.48				

SAUNDERS COUNTY

410558096210601. Local number 13N 9E 13ADBA

LOCATION.--Lat 41°05'58", long 96°21'06", NE1/4 NW1/4 SE1/4 NE1/4 sec.13, T.13 N., R.9E., Hydrologic Unit 10200202, approximately 3.75 mi north and .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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	13.24	12.82	12.99	12.55	12.20	12.38	12.03	11.26	10.93	12.00	12.92	13.37
10	13.10	12.83	12.85	12.50	12.15	12.40	12.11	10.29	11.09	12.07	13.13	13.39
15	12.98	12.87	12.83	12.44	12.11	12.21	11.86	10.46	11.26	12.29	13.29	13.37
20	12.85	12.97	12.75	12.38	12.24	12.03	11.78	10.76	11.46	12.46	13.42	13.36
25	12.80	12.97	12.72	12.33	12.31	12.03	11.63	11.00	11.71	12.67	13.39	13.32
EOM	12.83	12.96	12.63	12.22	12.35	11.98	11.44	10.85	11.90	12.88	13.50	13.20

WATER YEAR 1995:	HIGHEST	10.13	MAY	11, 1995
	LOWEST	13.51	SEP	02, 1995

SAUNDERS COUNTY

410428096211001. Local number 13N 9E 24DDCC

LOCATION.--Lat 41°04'28", long 96°21'10", SW1/4 SW1/4 SE1/4 SE1/4 sec.24, T.13 N., R.9E., Hydrologic Unit 10200202, 2 mi north on Highway 63 and .8 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 55 ft., screened 45 to 55 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,064 ft. Measuring point: Top of casing 4.5 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping of municipal wells. 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, +4.20 ft above land-surface datum, Mar 12, 1993; lowest, 18.61 ft below land-surface datum, Oct. 15, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	5.00	---	---	---	4.04	4.68	4.44	2.58	2.16	3.26	4.41	5.57
10	4.98	---	---	4.58	4.03	4.74	4.34	1.51	2.13	3.52	4.63	5.58
15	4.86	---	---	4.48	4.08	4.35	3.97	1.82	2.34	3.80	4.92	5.72
20	4.72	---	---	4.20	4.33	4.39	3.83	2.12	2.69	3.92	5.05	5.85
25	---	---	---	4.25	4.42	4.50	3.63	2.27	2.87	4.05	5.35	5.88
EOM	---	---	---	4.09	4.57	4.46	3.12	2.14	3.19	4.43	5.50	5.68

WATER YEAR 1995:	HIGHEST	1.35	MAY	9, 1995
	LOWEST	5.96	SEP	18, 1995

SAUNDERS COUNTY

410334096211601. Local number 13N 9E 36ABAA.

LOCATION.--Lat 41°03'34", long 96°21'16", NE1/4 NE1/4 NW1/4 NE1/4 sec.36, T.13 N., R.9E., Hydrologic Unit 10200202, 1 mi north and .65 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 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 passage of trains on nearby railroad track. 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, +2.55 ft. above land-surface datum, Jul 23, 1993; lowest, 21.40 ft below land-surface datum, Oct. 30, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	14.08	FEB 16	13.03	APR 07	10.58	AUG 17	14.40				
DEC 14	13.65	MAR 08	12.25	MAY 16	2.65						

SAUNDERS COUNTY

410527096203201. Local number 13N 10E 18CDBD.

LOCATION.--Lat 41°05'27", long 96°20'32", SE1/4 NW1/4 SE1/4SW1/4 sec.18, T.13 N., R.10E., Hydrologic Unit 10200202, 3.15 mi north and 1.3 mi east of Ashland. Northern end of city's north well field. Located on Nebraska National Guard camp approximately 600 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 nearby pumping and Platte River stage. 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, +1.15 ft above land-surface datum, Mar. 10, 1993; lowest, 10.93 ft below land-surface datum, Sept. 10 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	6.68	FEB 16	7.12	APR 07	6.01	AUG 16	7.28				
DEC 14	6.47	MAR 08	7.50	MAY 16	4.86						

GROUND-WATER LEVELS

SAUNDERS COUNTY

410427096202501. Local number 13N 10E 19CDDD.

LOCATION.--Lat 41°04'27", long 96°20'25", SE1/4 SE1/4 SE1/4 SW1/4 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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 16	11.70	FEB 16	11.51	APR 07	11.28	AUG 16	11.88				
DEC 14	11.55	MAR 08	11.88	MAY 16	8.60						

SAUNDERS COUNTY

410340096202201. Local number 13N 10E 30CDDA.

LOCATION.--Lat 41°03'40", long 96°20'22", NE1/4 SE1/4 SE1/4 SW1/4 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 4.1 ft above land-surface datum.

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.

PERIOD OF RECORD.--August 1990 to current 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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV 16	17.75	FEB 16	14.28	APR 07	10.98	AUG 16	18.64				
DEC 14	16.95	MAR 08	17.13	MAY 16	7.55						

SAUNDERS COUNTY

410401096195201. Local number 13N 10E 30DAAB.

LOCATION.--Lat 41°04'01", long 96°19'52", NW1/4 NE1/4 NE1/4 SE1/4 sec.30, T.13 N., R.10E., Hydrologic Unit 10200202, 1.5 mi north and 1.9 mi east of Ashland. Near Administration building for Nebraska National Guard camp, approximately 75 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 71 ft., screened 60 to 71 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,060 ft. Measuring point: Top of casing 3.6 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.

PERIOD OF RECORD.--August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.72 ft below land-surface datum, July 24-25, 1993; lowest, 11.92 ft below land-surface datum, Sep 6, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	9.07	FEB 16	9.25	APR 07	8.18	AUG 16	9.84				
DEC 14	9.04	MAR 08	9.99	MAY 16	6.90						

SAUNDERS COUNTY

410314096201101. Local number 13N 10E 31ACDB.

LOCATION.--Lat 41°03'14", long 96°20'11", NW1/4 SE1/4 SW1/4 NE1/4 sec.31, T.13 N., R.10E., Hydrologic Unit 10200203, 1.4 mi northeast of Ashland north of U.S. Highway 6. Owner: City of Lincoln.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in, depth 49 ft., screened 35 to 49 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,060 ft. Measuring point: Top of casing 5.9 ft (April 1994) above land-surface datum.

REMARKS.--Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD.--November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.86 ft above land-surface datum, Mar 12, 1993; lowest, 20.37 ft below land-surface datum, Oct 10, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	16.39	DEC 14	14.78	MAR 08	14.10	MAY 11	8.25				
NOV 16	15.48	FEB 16	15.19	APR 07	12.69	AUG 17	16.27				

GROUND-WATER LEVELS

SAUNDERS COUNTY

410303096192901. Local number 13N 10E 32CABC.

LOCATION.--Lat 41°03'03", long 96°19'29", SW1/4 NW1/4 NE1/4 SW1/4 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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	7.16	FEB 16	9.55	MAR 11	4.30	AUG 17	9.14				
DEC 14	7.74	MAR 08	9.02	APR 07	6.45						

SAUNDERS COUNTY

410307096193801. Local number 13N 10E 32CBAB.

LOCATION.--Lat 41°03'07", long 96°19'38", NW1/4 NE1/4 NW1/4 SW1/4 sec.32, T.13 N., R.10E., Hydrologic Unit 10200202, 2.0 mi northeast of Ashland on highway 6 and 0.5 mi south of highway 6 entrance to City of Lincoln southern well field. Southern end of well field. Owner: City of Lincoln.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in, depth 46 ft., screened 11 to 46 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,060 ft. Measuring point: Top of casing 3.8 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.

PERIOD OF RECORD.--November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +2.83 ft above land-surface datum, July 24 and 25, 1993; lowest, 13.97 ft below land-surface datum, Sep 7, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	6.52	FEB 16	8.58	APR 07	4.82	AUG 17	9.72				
DEC 14	8.02	MAR 08	6.71	MAY 11	2.08						

411005096281502. Local number 14N 8E 24ACD2.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	41.52	41.29	41.24	41.09	41.19	41.15	41.11	---	41.93	---	41.22	41.13
10	41.49	41.31	41.25	41.14	41.17	41.12	41.14	41.12	40.87	---	41.34	40.97
15	41.37	41.31	41.19	41.14	41.19	41.16	41.17	41.05	40.80	---	41.37	40.93
20	41.38	41.27	41.17	41.18	41.19	41.12	41.13	41.04	---	40.91	41.35	40.88
25	41.39	41.27	41.18	41.20	41.12	41.13	41.14	40.96	---	41.01	41.22	40.92
EOM	41.34	41.24	41.19	41.12	41.23	41.16	---	---	---	41.21	41.11	40.95

WATER YEAR 1995:	HIGHEST	40.93	JUN 6, 1995
	LOWEST	41.52	OCT 5, 1994

415325103392801. Local number 22N 55W 11DDC.

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 LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	25.64	25.70	25.82	25.92	25.93	26.08	26.28	26.49	26.65	26.83	26.36	26.27
10	25.65	25.76	25.82	25.90	25.96	26.10	26.30	26.52	26.66	26.84	26.40	26.21
15	25.65	25.85	25.83	25.89	25.98	26.14	26.33	26.55	26.67	26.74	26.30	26.11
20	25.65	25.84	25.85	25.89	26.00	26.18	26.37	26.57	26.70	26.67	26.30	26.04
25	26.69	25.83	25.87	25.89	26.02	26.21	26.41	26.60	26.73	26.65	26.27	25.97
EOM	25.70	25.81	25.90	25.90	26.04	26.24	26.45	26.63	26.79	26.49	26.25	25.91

WATER YEAR 1995:	HIGHEST.	25.64	OCT 5, 1994
	LOWEST	26.25	AUG 30, 1995

GROUND-WATER LEVELS

SEWARD COUNTY

405406097115001. Local number 11N 2E 21DD.

LOCATION.--Lat 40°54'06", long 97°11'50", SE1/4 SE1/4 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, 73.25 ft below land-surface datum, May 31 1988; lowest, 90.17 ft below land-surface datum, Aug. 5, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
LOWEST WATER LEVEL FOR THE DAY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
05	77.03	75.94	75.60	75.19	74.80	74.55	74.33	73.80	---	73.85	82.80	83.29
10	76.86	76.02	75.64	74.90	74.68	74.54	74.16	73.72	73.73	75.67	82.85	82.85
15	76.69	75.98	75.37	74.78	74.58	74.39	74.16	---	73.73	77.68	83.80	82.19
20	76.37	75.83	75.09	74.85	74.63	74.23	74.16	---	73.73	79.56	83.84	81.75
25	76.38	75.87	75.24	74.93	74.61	74.20	74.23	---	73.86	80.92	83.00	81.13
EOM	76.18	75.61	75.12	74.86	74.63	74.41	74.03	---	74.10	82.20	83.20	80.50

WATER YEAR 1995: HIGHEST. 73.72 MAY 10, 1995
 LOWEST 83.83 AUG. 16, 1995

SHERIDAN COUNTY

423034102415001. Local number 29N 46W 10AA

LOCATION.--Lat 42°30'34", long 102°41'50", NE1/4 NE1/4 sec.10, T.29 N., R.46 W., Hydrologic Unit 10150003, at Mirage Flats project headquarters, 11.5 mi south of Hay Springs. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in, depth 100 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,794.5 ft. Measuring point: Top of casing 1.5 ft above land-surface datum.

REMARKS.--Water levels affected by seepage losses from nearby irrigation canal and laterals and by withdrawals from nearby irrigation wells.

PERIOD OF RECORD.--September 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 32.47 ft below land-surface datum, Aug. 25, 1969; lowest, 44.49 ft below land-surface datum, Aug. 20, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 05	42.86	JAN 24	42.32	MAY 05	42.11	AUG 09	41.16				
NOV 11	42.62	MAR 03	42.21	JUN 06	42.34	SEP 06	41.88				
DEC 16	42.45	APR 03	42.17	JUL 06	42.06						

265

415845100334001. Local number 23N 28W 9DA.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.73 ft below land-surface datum, Oct. 16, 1970; lowest, 10.98 ft below land-surface datum, July 23, 1940.

WATER		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 06	12.15	MAY 08	9.90								

412955099123201. Local number 18N 16W 30CC.

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		WATER		WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 13	3.19	May 09	1.25								

GROUND-WATER LEVELS

WEBSTER COUNTY

400423098314001. Local number 1N 11W 11AB.

LOCATION.--Lat 40°04'23", long 98°31'40", NW1/4 NE1/4 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 1.1 ft above land-surface datum.

PERIOD OF RECORD.--May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.34 ft below land-surface datum, July 11, 1951; lowest, 10.56 ft below land-surface datum, Apr. 5, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29	8.34	MAY 12	5.22								

YORK COUNTY

404618097482201. Local number 9N 4W 5CCC.

LOCATION.--Lat 40°46'18", long 97°48'22", SW1/4 SW1/4 SW1/4 sec.5, T.9 N., R.4 W., Hydrologic Unit 10270203, 0.5 mi south of Henderson. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in, depth 170 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,708 ft. Measuring point: Top of casing 1.50 ft above land-surface datum.

REMARKS.--Replacement for well 404620097482501, local number 9N 4W 6DD with period of record May 1959 to September 1981 located on east side of highway across from old well.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.33 ft below land-surface datum, May 5, 1994; lowest, 87.52 ft below land-surface datum, Aug. 20, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	75.37	DEC 19	74.40	FEB 10	74.38	APR 13	74.09	AUG 07	75.93		
NOV 16	74.64	JAN 10	74.37	MAR 13	74.26	JUN 06	73.50				

GROUND-WATER LEVELS

267

YORK COUNTY

405305097351503. Local number 11N 2W 31BA3.

LOCATION.--Lat 40°53'05", long 97°35'15", NE1/4 NW1/4 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, 80.97 ft below land-surface datum, Apr. 4, 1994; lowest, 120.81 ft below land-surface datum, July 15, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	81.30	JAN 10	80.44	MAR 13	80.08	JUN 06	79.61				
DEC 19	80.74	FEB 10	80.26	APR 13	79.93	AUG 07	87.87				

CHEMICAL ANALYSES OF GROUND WATER

(Local identifier: indicates location by township, range, and section. Geologic unit: 110 SDGV, Quaternary sand and gravel deposits, undifferentiated; 111 ALVM, Holocene alluvium; 112 SDGV, Pleistocene sand and gravel deposits; 121 OGLL, Pliocene Ogallala Formation; 122 ARKR, Miocene Arikaree Group; 123 BRUL, Oligocene Brule Formation; 123 CDRN, Oligocene Chadron Formation; 123 CDRNB, Oligocene Chadron Formation, basal sand and gravel; 211 FXHL, Upper Cretaceous Fox Hills Formation; 211 LNCE, Upper Cretaceous Lance Formation.)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Papio-Missouri

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL TOTAL (FEET) (72008)	SPECIFIC CONDUCTANCE (µ S/CM) (00095)
BURT COUNTY								
414329096142901	20N 10E12ABBC 1	41 43 29 N	096 14 29 W	--	08-16-95	1310	91.50	725
414242096141201	20N 10E13ABAA 1	41 42 42 N	096 14 12 W	211DKOT	08-16-95	1630	92.00	784
414413096105401	20N 11E 4ACBA 1	41 44 13 N	096 10 54 W	110QRNR	08-16-95	1545	101.00	904
414256096071601	20N 11E12DBDD 1	41 42 56 N	096 07 16 W	110QRNR	08-16-95	1015	104.00	1280
414200096133801	20N 11E18CDBC 1	41 42 00 N	096 13 38 W	110QRNR	08-16-95	1710	168.00	1660
414138096100901	20N 11E22BCAA 1	41 41 38 N	096 10 09 W	--	08-28-95	0905	--	1350
414020096130601	20N 11E30DCAA 1	41 40 20 N	096 13 06 W	112SDGV	08-16-95	1140	63.00	688
414820096082301	21N 11E11DBBD 1	41 48 20 N	096 08 23 W	110QRNR	08-15-95	1330	122.00	848
414659096134901	21N 11E19BBCB 1	41 46 59 N	096 13 49 W	--	08-15-95	1610	180.00	994
414645096134301	23N 11E19BBCD 1	41 46 45 N	096 13 43 W	211DKOT	08-15-95	1745	172.00	794
414622096131801	21N 11E19CDAA 1	41 46 22 N	096 13 18 W	--	08-15-95	1700	152.50	689
414601096130001	21N 11E30A 1	41 46 01 N	096 13 00 W	110QRNR	08-16-95	0900	95.00	780
415052096085401	22N 11E26CDAC 1	41 50 52 N	096 08 54 W	--	08-15-95	1900	110.00	844
415924096130901	23N 11E 6DCDD1	41 59 24 N	096 13 09 W	--	08-15-95	1435	--	793
415710096115701	23N 11E20DBAB 1	41 57 10 N	096 11 57 W	112SDGV	08-15-95	1100	115.00	864
415608096091501	23N 11E27DA 1	41 56 08 N	096 09 15 W	110QRNR	08-15-95	1210	--	1070

DAKOTA COUNTY

422033096274701	27N 8E 1DAAA 1	42 20 33 N	096 27 47 W	112SDGV	08-14-95	1330	153.00	1080
421640096221401	27N 9E26DCDD 1	42 16 40 N	096 22 14 W	110QRNR	08-14-95	1430	103.00	1110
422524096332801	28N 7E 1DBDD 1	42 25 24 N	096 33 28 W	110QRNR	08-14-95	1015	130.00	1440
422524096250701	28N 9E 4CDBC 1	42 25 24 N	096 25 07 W	112SDGV	08-14-95	0840	162.00	1340
422301096262201	28N 9E20CBDD 1	42 23 01 N	096 26 22 W	110QRNR	08-15-95	0830	105.00	1280
422726096302701	29N 8E27A 1	42 27 26 N	096 30 27 W	--	08-14-95	1145	--	1340

DOUGLAS COUNTY

411738096140601	15N 10E 1DDAD 1	41 17 38 N	096 14 06 W	--	08-07-95	1145	230.00	706
411416096175901	15N 10E28DCBB 1	41 14 16 N	096 17 59 W	--	08-21-95	1145	--	538
411430096193101	15N 10E29BDCC 1	41 14 30 N	096 19 31 W	--	08-07-95	1945	61.00	680
411413096194401	15N 10E29CCBA 1	41 14 13 N	096 19 44 W	110QRNR	08-07-95	1845	--	824
411719096135601	15N 11E 7BDDC 1	41 17 19 N	096 13 56 W	211DKOT	08-07-95	1115	238.00	702
411717096125701	15N 11E 8BCCB 1	41 17 17 N	096 12 57 W	--	08-28-95	1640	--	597
412127096193701	16N 10E17BCDD 1	41 21 27 N	096 19 37 W	--	08-21-95	1000	--	550
411945096200701	16N 10E30DABB 1	41 19 45 N	096 20 07 W	110QRNR	08-07-95	1400	90.00	547
411914096200701	16N 10E31AABB 1	41 19 14 N	096 20 07 W	--	08-07-95	1315	--	716
412217096093601	16N 11E10DAAA 1	41 22 17 N	096 09 36 W	--	08-17-95	1530	--	670
412018096084501	16N 11E23DCBA 1	41 20 18 N	096 08 45 W	112SDGV	08-07-95	1000	56.00	770
411901096074601	16N 11E36BDAA 1	41 19 01 N	096 07 46 W	--	08-21-95	1630	--	538
411855095551901	16N 13E35BDCB 1	41 18 55 N	095 55 19 W	112SDGV	08-07-95	1520	80.00	1710

SARPY COUNTY

410204096083801	12N 11E 1BCBB 1	41 02 04 N	096 08 38 W	--	08-22-95	1530	--	754
410228096083501	12N 11E 2ADB 1	41 02 38 N	096 08 25 W	--	08-28-95	1450	--	412
410728096134401	13N 11E 6CAAA 1	41 07 28 N	096 13 44 W	--	08-23-95	1130	278.00	588
410651096134801	13N 11E 7BCAA 1	41 06 51 N	096 13 48 W	112SDGV	08-29-95	1040	198.00	535
410542096093501	13N 11E15DA 1	41 05 34 N	096 09 30 W	--	08-30-95	1000	175.00	594
410609096131501	13N 11E18ABAD 1	41 06 09 N	096 13 15 W	--	08-21-95	1900	90.00	752
410630095541301	13N 13E12CBDA 1	41 06 30 N	095 54 13 W	112SDGV	09-26-95	0915	125.00	1070
410457095523501	13N 14E19 1	41 04 57 N	095 52 35 W	112SDGV	08-22-95	1030	97.00	1080

CHEMICAL ANALYSES OF GROUND WATER

269

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Papio-Missouri--Continued

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO ₄) (00660)	PHOS- PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALA- CHLOR, WATER, DISS, REC, (µ G/L) (46342)
BURT COUNTY												
08-16-95	7.4	11.5	4.0	--	0.120	0.120	--	--	--	--	--	--
08-16-95	6.6	11.5	3.0	--	5.00	5.00	--	--	--	--	--	--
08-16-95	7.4	12.0	6.1	--	0.060	0.060	--	--	--	--	--	--
08-16-95	7.3	12.0	5.8	--	--	<0.050	--	--	--	--	--	--
08-16-95	7.3	14.0	6.4	--	1.20	1.20	--	--	--	--	--	<0.050
08-28-95	7.2	11.5	0.4	--	0.060	0.060	--	--	--	--	--	<0.050
08-16-95	7.3	12.0	4.2	--	--	<0.050	--	--	--	--	--	--
08-15-95	7.4	11.5	3.2	--	--	<0.050	--	--	--	--	--	--
08-15-95	7.1	12.5	5.7	--	12.0	12.0	--	--	--	--	--	--
08-15-95	7.1	12.0	4.0	--	6.80	6.80	--	--	--	--	--	<0.050
08-15-95	7.1	13.0	4.1	--	3.30	3.30	--	--	--	--	--	--
08-16-95	7.4	11.0	0.5	--	0.190	0.190	--	--	--	--	--	--
08-15-95	7.4	12.0	4.9	--	--	<0.050	--	--	--	--	--	--
08-15-95	7.4	11.5	0.5	--	0.060	0.060	--	--	--	--	--	--
08-15-95	7.4	11.0	6.5	--	0.050	0.050	--	--	--	--	--	--
08-15-95	7.2	12.0	4.0	--	--	<0.050	--	--	--	--	--	--
DAKOTA COUNTY												
08-14-95	7.6	11.5	2.1	--	--	<0.050	--	--	--	--	--	--
08-14-95	8.0	12.0	7.3	--	--	<0.050	--	--	--	--	--	--
08-14-95	6.8	11.5	3.9	--	--	<0.050	--	--	--	--	--	--
08-14-95	7.7	11.5	0.9	--	--	<0.050	--	--	--	--	--	--
08-15-95	7.6	11.0	0.9	--	--	<0.050	--	--	--	--	--	--
08-14-95	7.8	14.5	4.1	--	--	<0.050	--	--	--	--	--	--
DOUGLAS COUNTY												
08-07-95	6.6	12.5	4.3	--	2.70	2.70	--	--	--	--	--	--
08-21-95	7.3	11.0	0.8	--	0.080	0.080	--	--	--	--	--	--
08-07-95	7.8	13.5	5.4	--	7.80	7.80	--	--	--	--	--	<0.050
08-07-95	7.5	11.5	0.5	--	23.0	23.0	--	--	--	--	--	--
08-07-95	7.6	12.5	5.0	--	5.50	5.50	--	--	--	--	--	--
08-28-95	7.8	12.5	3.0	--	--	<0.050	--	--	--	--	--	--
08-21-95	8.0	12.0	9.2	--	10.0	10.0	--	--	--	--	--	<0.050
08-07-95	7.5	12.0	4.4	--	5.70	5.70	--	--	--	--	--	--
08-07-95	3.7	12.5	5.6	--	14.0	14.0	--	--	--	--	--	--
08-17-95	7.6	14.5	0.6	<0.010	--	<0.050	<0.015	<0.20	0.15	0.050	0.050	--
08-07-95	6.7	11.0	1.1	--	6.50	6.50	--	--	--	--	--	<0.050
08-21-95	7.0	16.5	3.7	--	1.70	1.70	--	--	--	--	--	--
08-07-95	7.1	14.0	0.4	--	--	<0.050	--	--	--	--	--	--
SARPY COUNTY												
08-22-95	7.6	13.0	8.6	--	1.30	1.30	--	--	--	--	--	<0.050
08-28-95	7.6	16.0	6.4	--	5.90	5.90	--	--	--	--	--	--
08-23-95	7.3	13.5	0.3	--	--	<0.050	--	--	--	--	--	--
08-29-95	7.3	13.0	9.7	--	7.40	7.40	--	--	--	--	--	--
08-30-95	7.8	14.0	7.6	--	5.20	5.20	--	--	--	--	--	--
08-21-95	7.0	12.5	4.2	--	17.0	17.0	--	--	--	--	--	--
09-26-95	7.3	13.5	0.4	--	0.060	0.060	--	--	--	--	--	--
08-22-95	6.6	13.0	7.2	--	--	<0.050	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Papio-Missouri--Continued

DATE	DEETHYL DEISO-										
	AMETRYN	ATRA-	CYANA-	ATRA-	PROPYL			METRI-	PRO-	PRO-	SI-
	ZINE,	ZINE,	ZINE,	ZINE,	ATRAZIN			BUZIN	METON	METRYN,	MAZINE,
	WATER,	WATER,	WATER,	WATER,	WATER,	METO-	SENCOB	WATER,	WATER,	WATER,	WATER,
	DISS,	DISS,	DISS,	DISS,	DISS,	LACHLOR	WATER	DISS,	DISS,	DISS,	DISS,
	REC,	REC	REC	REC	REC	DISSOLV	DISSOLV	REC	REC	REC	REC
	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)	(µ G/L)
	(38401)	(39632)	(04041)	(04040)	(04038)	(39415)	(82630)	(04037)	(04036)	(38535)	(04035)

BURT COUNTY

[illegible]**DAKOTA COUNTY**[illegible]

DOUGLASCOUNTY

[illegible]**SARPYCOUNTY**[illegible]

CHEMICAL ANALYSES OF GROUND WATER
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 Papio-Missouri--Continued

STATION NUMBER	LOCAL IDENTIFIER		LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME
THURSTON COUNTY							
420903096262901	25N	9E 8CCAA 1	42 09 03 N	096 26 29 W	--	08-14-95	1815
420848096245101	25N	9E 9DCCC 1	42 08 48 N	096 24 51 W	112PLSC	08-14-95	1630
420844096245701	25N	9E16BAAA 1	42 08 44 N	096 24 57 W	--	08-14-95	1700
420746096195701	25N	10E19ABDD 1	42 07 46 N	096 19 57 W	112SDGV	08-15-95	0950
WASHINGTON COUNTY							
412559096005601	17N	12E24BACC 1	41 25 59 N	096 00 56 W	110QRNR	08-17-95	1100
412716095584201	17N	13E 8CABC 1	41 27 16 N	095 58 42 W	--	08-28-95	1210
413625096082601	18N	12E 5BBDA 1	41 36 25 N	096 08 26 W	110QRNR	08-16-95	1800
413621096083502	19N	11E23ACAA 1	41 36 21 N	096 08 35 W	110QRNR	08-28-95	1115
413959096074901	20N	11E36ABBB 1	41 39 59 N	096 07 49 W	--	08-28-95	1140

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Papio-Missouri--Continued

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	SPECIFIC CONDUCTANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (°C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITROGEN, NITRATE TOTAL (MG/L) AS N) (00620)	NITROGEN, NO ₂ +NO ₃ DIS-SOLVED (MG/L) AS N) (00631)	ALACHLOR, WATER, DISS. REC. (μ G/L) (46342)	AMETRYN, WATER, DISS. REC. (μ G/L) (38401)	ATRAZINE, WATER, DISS. REC (μ G/L) (39632)
------	--	--	--	-----------------------------------	--------------------------------------	--	--	---	--	--

THURSTON COUNTY

08-14-95	--	732	7.8	11.5	0.7	10.0	10.0	--	--	--
08-14-95	100.00	702	7.6	12.0	1.9	7.00	7.00	--	--	--
08-14-95	--	927	7.4	11.5	5.1	21.0	21.0	--	--	--
08-15-95	93.00	881	7.4	11.0	2.8	--	<0.050	--	--	--

WASHINGTONCOUNTY

08-17-95	--	736	7.8	13.5	10.3	--	<0.050	<0.050	<0.050	<0.050
08-28-95	--	1300	7.0	11.5	0.7	0.550	0.550	--	--	--
08-16-95	89.00	1600	7.5	12.5	2.9	--	<0.050	--	--	--
08-28-95	97.00	1310	7.3	13.5	5.6	--	<0.050	--	--	--
08-28-95	--	1420	7.2	12.5	5.4	--	<0.050	--	--	--

[illegible]**THURSTON COUNTY**

08-14-95	--	--	--	--	--	--	--	--
08-14-95	--	--	--	--	--	--	--	--
08-14-95	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--

WASHINGTON COUNTY[illegible]

(Local identifier: indicates location by township, range, and section. Geologic unit: 110 SDGV, Quaternary sand and gravel deposits, undifferentiated; 111 ALVM, Holocene alluvium; 112 SDGV, Pleistocene sand and gravel deposits; 121 OGLL, Pliocene Ogallala Formation; 122 ARKR, Miocene Arikaree Group; 123 BRUL, Oligocene Brule Formation; 123 CDRN, Oligocene Chadron Formation; 123 CDRNB, Oligocene Chadron Formation, basal sand and gravel; 211 FXHL, Upper Cretaceous Fox Hills Formation; 211 LNCE, Upper Cretaceous Lance Formation.)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Special Protection Area (SPA) Middle Republican

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPECIFIC CONDUCTANCE (μ S/CM) (00095)
HITCHCOCK COUNTY								
401014100571601	2N 32W 5AC 1	40 10 14 N	100 57 16 W	--	08-17-95	1230	68.00	1010
401016101025201	2N 33W 4AC 1	40 10 16 N	101 02 52 W	--	08-15-95	1515	--	871
400918101023201	2N 33W 9ADD 1	40 09 18 N	101 02 32 W	--	08-15-95	1445	40.00	1000
400934101020301	2N 33W10B 1	40 09 34 N	101 02 03 W	--	08-15-95	1500	--	700
400859101115101	2N 34W 7DC 1	40 08 59 N	101 11 51 W	--	08-15-95	1345	--	1770
400842101114101	2N 34W18AA 1	40 08 42 N	101 11 41 W	--	08-15-95	1400	--	1190
400818101124001	2N 35W13AAAD 1	40 08 18 N	101 12 40 W	112SDGV	10-25-94	1355	46.00	1340
				112SDGV	11-21-94	1055	46.00	1360
				112SDGV	12-19-94	1215	46.00	1390
				112SDGV	01-23-95	1115	46.00	1400
				112SDGV	02-22-95	1350	46.00	1350
				112SDGV	03-29-95	1105	46.00	1410
				112SDGV	03-29-95	1110	46.00	--
				112SDGV	04-24-95	1100	46.00	1410
				112SDGV	06-02-95	1200	46.00	1360
				112SDGV	06-19-95	1305	46.00	1540
				112SDGV	07-18-95	1110	46.00	1390
				112SDGV	08-16-95	1415	46.00	1370
				112SDGV	09-05-95	1420	46.00	1350
				112SDGV	09-05-95	1425	46.00	--
400818101124002	2N 35W13AAAD 2			112SDGV	10-25-94	1410	30.00	1460
				112SDGV	11-21-94	1110	30.00	1450
				112SDGV	12-19-94	1230	30.00	1480
				112SDGV	01-23-95	1130	30.00	1550
				112SDGV	02-22-95	1400	30.00	1490
				112SDGV	03-29-95	1125	30.00	1530
				112SDGV	03-29-95	1130	30.00	--
				112SDGV	04-24-95	1115	30.00	1530
				112SDGV	06-02-95	1220	30.00	1500
				112SDGV	06-19-95	1320	30.00	1390
				112SDGV	07-18-95	1130	30.00	1540
				112SDGV	08-16-95	1425	30.00	1500
				112SDGV	09-05-95	1445	30.00	1580
				112SDGV	09-05-95	1450	30.00	--
400749101175601	2N 35W20BB 1	40 07 49 N	101 17 56 W	--	08-15-95	1300	51.00	1970
401525100464501	3N 31W 2AD 1	40 15 25 N	100 46 45 W	--	08-14-95	1430	176.00	780
401459100542501	3N 32W 2CD 1			--	08-15-95	1015	--	898
401459100544201	3N 32W 3DD 1	40 14 59 N	100 54 42 W	--	08-17-95	1050	--	820
401815100521601	4N 31W19BBCC 1	40 18 15 N	100 52 16 W	112SDGV	08-17-95	1030	--	410
401722100455401	4N 31W25AB 1	40 17 22 N	100 45 54 W	--	08-14-95	1450	243.00	646
401643100513301	4N 31W30DC 1	40 16 43 N	100 51 33 W	--	08-14-95	1200	--	533
				--	08-14-95	1210	--	--
				--	08-14-95	1220	--	--
401556100502701	4N 31W32DC 1	40 15 56 N	100 50 27 W	--	08-14-95	1145	125.00	745
				--	08-14-95	1155	125.00	--
				--	08-14-95	1205	125.00	--
401551100495101	4N 31W33CC 1	40 15 51 N	100 49 51 W	--	08-14-95	1130	106.00	811
				--	08-14-95	1140	106.00	--
				--	08-14-95	1150	106.00	--
402007100563501	4N 32W 9BBA 1	40 20 07 N	100 56 35 W	--	08-14-95	1315	308.00	500
401713100582501	4N 32W30AD 1	40 17 13 N	100 58 25 W	--	08-15-95	1045	--	859
401655100583201	4N 32W30DCBB 1	40 16 55 N	100 58 32 W	112SDGV	10-25-94	1200	61.00	--
				112SDGV	10-25-94	1510	61.00	1290
				112SDGV	10-25-94	1520	61.00	--
				112SDGV	11-21-94	0940	61.00	1300
				112SDGV	12-19-94	1020	61.00	1330
				112SDGV	12-19-94	1030	61.00	--
				112SDGV	12-19-94	1200	61.00	--

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA—Continued

[illegible]

CHEMICAL ANALYSES OF GROUND WATER

275

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	SILICA, MAZINE, WATER, DISS, REC (µ G/L) (04035)
HITCHCOCK COUNTY											
08-17-95	--	--	--	--	--	10.0	--	--	--	--	--
08-15-95	--	--	--	--	--	1.90	--	--	--	--	--
08-15-95	--	--	--	--	--	6.50	--	--	--	--	--
08-15-95	--	--	--	--	--	3.40	--	--	--	--	--
08-15-95	--	--	--	--	--	20.0	--	--	--	--	--
08-15-95	--	--	--	--	--	1.10	--	--	--	--	--
10-25-94	1.1	41	877	1.23	--	14.0	--	--	Δ	530	--
11-21-94	--	--	--	--	--	15.0	--	--	--	--	--
12-19-94	--	--	--	--	--	12.0	--	--	--	--	--
01-23-95	--	--	--	--	--	14.0	--	--	--	--	--
02-22-95	--	--	--	--	--	14.0	--	--	--	--	--
03-29-95	--	--	--	--	--	14.0	--	--	--	--	--
03-29-95	0.70	60	328	0.45	--	--	--	--	Δ	<1	--
04-24-95	--	--	--	--	--	13.0	--	--	--	--	--
06-02-95	--	--	--	--	--	13.0	--	--	--	--	--
06-19-95	--	--	--	--	--	15.0	--	--	--	--	--
07-18-95	--	--	--	--	--	14.0	--	--	--	--	--
08-16-95	--	--	--	--	--	13.0	--	--	--	--	--
09-05-95	--	--	--	--	--	14.0	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	<0.050
10-25-94	1.3	42	930	1.34	--	19.0	--	--	Δ	200	--
11-21-94	--	--	--	--	--	19.0	--	--	--	--	--
12-19-94	--	--	--	--	--	14.0	--	--	--	--	--
01-23-95	--	--	--	--	--	19.0	--	--	--	--	--
02-22-95	--	--	--	--	--	20.0	--	--	--	--	--
03-29-95	--	--	--	--	--	19.0	--	--	--	--	--
03-29-95	0.70	59	327	0.45	--	--	--	--	Δ	<1	--
04-24-95	--	--	--	--	--	18.0	--	--	--	--	--
06-02-95	--	--	--	--	--	19.0	--	--	--	--	--
06-19-95	--	--	--	--	--	22.0	--	--	--	--	--
07-18-95	--	--	--	--	--	20.0	--	--	--	--	--
08-16-95	--	--	--	--	--	19.0	--	--	--	--	--
09-05-95	--	--	--	--	--	23.0	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	<0.050
08-15-95	--	--	--	--	--	1.70	--	--	--	--	--
08-14-95	--	--	--	--	--	9.20	--	--	--	--	--
08-15-95	--	--	--	--	--	7.30	--	--	--	--	--
08-17-95	--	--	--	--	--	3.80	--	--	--	--	--
08-17-95	--	--	--	--	--	12.0	--	--	--	--	--
08-14-95	--	--	--	--	--	10.0	--	--	--	--	--
08-14-95	--	--	--	--	--	5.10	--	--	--	--	--
08-14-95	--	--	--	--	<0.010	5.30	<0.015	0.010	--	--	--
08-14-95	--	--	--	--	--	5.10	--	--	--	--	--
08-14-95	--	--	--	--	--	8.20	--	--	--	--	--
08-14-95	--	--	--	--	<0.010	13.0	<0.015	0.030	--	--	--
08-14-95	--	--	--	--	--	8.30	--	--	--	--	--
08-14-95	--	--	--	--	--	11.0	--	--	--	--	--
08-14-95	--	--	--	--	<0.010	9.30	<0.015	0.030	--	--	--
08-14-95	--	--	--	--	--	11.0	--	--	--	--	--
08-14-95	--	--	--	--	--	5.90	--	--	--	--	--
08-15-95	--	--	--	--	--	10.0	--	--	--	--	--
10-25-94	--	--	--	--	--	11.0	--	--	--	--	--
10-25-94	0.60	64	913	1.29	--	11.0	--	--	Δ	<1	--
10-25-94	0.60	63	885	1.31	--	12.0	--	--	Δ	<1	--
11-21-94	--	--	--	--	--	12.0	--	--	--	--	--
12-19-94	--	--	--	--	--	9.50	--	--	--	--	--
12-19-94	--	--	--	--	--	11.0	--	--	--	--	--
12-19-94	--	--	--	--	--	9.40	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

[illegible]

CHEMICAL ANALYSES OF GROUND WATER

277

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)
HITCHCOCK COUNTY							
401655100583201	4N 32W30DCBB 1	40 16 55 N	100 58 32 W	112SDGV	01-23-95	1200	61.00
				112SDGV	01-23-95	1300	61.00
				112SDGV	01-23-95	1310	61.00
				112SDGV	02-22-95	1155	61.00
				112SDGV	03-29-95	0900	61.00
				112SDGV	03-29-95	0905	61.00
				112SDGV	04-24-95	0940	61.00
				112SDGV	05-30-95	1000	61.00
				112SDGV	06-19-95	1415	61.00
				112SDGV	07-18-95	0925	61.00
				112SDGV	07-18-95	0935	61.00
				112SDGV	07-18-95	1200	61.00
				112SDGV	08-16-95	1510	61.00
				112SDGV	09-05-95	1130	61.00
				112SDGV	09-05-95	1220	61.00
				112SDGV	09-05-95	1225	61.00
				112SDGV	09-05-95	1235	61.00
401655100583202	4N 32W30DCBB 2			112SDGV	10-25-94	1215	45.00
				112SDGV	10-25-94	1545	45.00
				112SDGV	10-25-94	1555	45.00
				112SDGV	11-21-94	0955	45.00
				112SDGV	12-19-94	1045	45.00
				112SDGV	12-19-94	1055	45.00
				112SDGV	12-19-94	1215	45.00
				112SDGV	01-23-95	1215	45.00
				112SDGV	01-23-95	1450	45.00
				112SDGV	01-23-95	1500	45.00
				112SDGV	02-22-95	1205	45.00
				112SDGV	03-29-95	0920	45.00
				112SDGV	03-29-95	0925	45.00
				112SDGV	04-24-95	0955	45.00
				112SDGV	05-30-95	1010	45.00
				112SDGV	06-19-95	1430	45.00
				112SDGV	07-18-95	0950	45.00
				112SDGV	07-18-95	1000	45.00
				112SDGV	07-18-95	1215	45.00
				112SDGV	08-16-95	1525	45.00
				112SDGV	09-05-95	1140	45.00
				112SDGV	09-05-95	1245	45.00
				112SDGV	09-05-95	1250	45.00
401655100583203	4N 32W30DCBB 3			112SDGV	09-05-95	1300	45.00
				112SDGV	10-25-94	1230	25.00
				112SDGV	10-25-94	1600	25.00
				112SDGV	10-25-94	1610	25.00
				112SDGV	11-21-94	1010	25.00
				112SDGV	12-19-94	1100	25.00
				112SDGV	12-19-94	1110	25.00
				112SDGV	12-19-94	1230	25.00
				112SDGV	01-23-95	1230	25.00
				112SDGV	01-23-95	1505	25.00
				112SDGV	01-23-95	1515	25.00
				112SDGV	02-22-95	1225	25.00
				112SDGV	03-29-95	0955	25.00
				112SDGV	03-29-95	1000	25.00
				112SDGV	04-24-95	1010	25.00
				112SDGV	05-30-95	1025	25.00
				112SDGV	06-19-95	1440	25.00
				112SDGV	07-18-95	1020	25.00
				112SDGV	07-18-95	1040	25.00
				112SDGV	07-18-95	1230	25.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	SPECIFIC CONDUCTANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (° C) (00010)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
HITCHCOCK COUNTY											
01-23-95	--	--	--	--	--	--	--	--	--	--	--
01-23-95	1310	7.4	13.5	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--	--
02-22-95	1290	7.4	14.0	--	--	--	--	--	--	--	--
03-29-95	1330	7.2	13.0	--	--	--	--	--	--	--	--
03-29-95	--	--	--	540	160	33	62	1	24	371	250
04-24-95	1320	7.2	13.5	--	--	--	--	--	--	--	--
05-30-95	1270	7.2	13.5	--	--	--	--	--	--	--	--
06-19-95	1290	7.2	14.0	--	--	--	--	--	--	--	--
07-18-95	1280	7.3	13.5	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--	--
08-16-95	1260	7.3	14.0	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
09-05-95	1240	7.3	14.0	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
10-25-94	--	--	--	--	--	--	--	--	--	--	--
10-25-94	1390	7.7	13.5	530	140	43	96	2	20	345	340
10-25-94	--	--	--	--	--	--	--	--	--	--	--
11-21-94	1400	8.4	13.0	--	--	--	--	--	--	--	--
12-19-94	1450	7.2	13.0	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--	--
01-23-95	1430	7.3	12.5	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--	--
02-22-95	1440	7.4	14.0	--	--	--	--	--	--	--	--
03-29-95	1500	7.2	13.0	--	--	--	--	--	--	--	--
03-29-95	--	--	--	230	67	16	31	0.9	20	253	46
04-24-95	1500	7.2	13.5	--	--	--	--	--	--	--	--
05-30-95	1440	7.2	13.5	--	--	--	--	--	--	--	--
06-19-95	1460	7.1	14.0	--	--	--	--	--	--	--	--
07-18-95	1400	7.3	13.5	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--	--
08-16-95	1360	7.4	14.5	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
09-05-95	1370	7.2	14.0	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
10-25-94	--	--	--	--	--	--	--	--	--	--	--
10-25-94	1660	7.6	13.0	400	110	30	57	1	19	286	140
10-25-94	--	--	--	680	180	55	110	2	23	328	470
11-21-94	1700	8.2	13.0	--	--	--	--	--	--	--	--
12-19-94	1760	7.2	13.5	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--	--
01-23-95	1800	7.3	13.0	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--	--
02-22-95	1800	7.4	14.0	--	--	--	--	--	--	--	--
03-29-95	1920	7.1	12.5	--	--	--	--	--	--	--	--
03-29-95	--	--	--	370	100	28	19	0.4	13	185	90
04-24-95	1970	7.2	13.0	--	--	--	--	--	--	--	--
05-30-95	1930	7.2	13.0	--	--	--	--	--	--	--	--
06-19-95	1940	7.1	13.5	--	--	--	--	--	--	--	--
07-18-95	2000	7.2	15.0	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

279

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	IRON, DIS- SOLVED (μG/L AS FE) (01046)	MANGANESE, DIS- SOLVED (μG/L AS MN) (01056)	SILICA, MAZINE, WATER, DISS, REC (μG/L) (04035)	PRO- METRYN, WATER, DISS, REC (μG/L) (04036)
HITCHCOCK COUNTY										
01-23-95	--	--	--	--	--	11.0	--	--	--	--
01-23-95	--	--	--	--	--	11.0	--	--	--	--
01-23-95	--	--	--	--	--	12.0	--	--	--	--
02-22-95	--	--	--	--	--	11.0	--	--	--	--
03-29-95	--	--	--	--	--	11.0	--	--	--	--
03-29-95	32	0.60	28	813	1.19	--	85	89	--	--
04-24-95	--	--	--	--	--	10.0	--	--	--	--
05-30-95	--	--	--	--	--	10.0	--	--	--	--
06-19-95	--	--	--	--	--	11.0	--	--	--	--
07-18-95	--	--	--	--	--	11.0	--	--	--	--
07-18-95	--	--	--	--	--	11.0	--	--	--	--
07-18-95	--	--	--	--	--	11.0	--	--	--	--
08-16-95	--	--	--	--	--	11.0	--	--	--	--
09-05-95	--	--	--	--	--	11.0	--	--	--	--
09-05-95	--	--	--	--	--	11.0	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	<0.050	<0.050
09-05-95	--	--	--	--	--	12.0	--	--	--	--
10-25-94	--	--	--	--	--	13.0	--	--	--	--
10-25-94	30	0.70	63	993	1.39	12.0	<3	<1	--	--
10-25-94	--	--	--	--	--	13.0	--	--	--	--
11-21-94	--	--	--	--	--	13.0	--	--	--	--
12-19-94	--	--	--	--	--	10.0	--	--	--	--
12-19-94	--	--	--	--	--	13.0	--	--	--	--
12-19-94	--	--	--	--	--	10.5	--	--	--	--
01-23-95	--	--	--	--	--	8.70	--	--	--	--
01-23-95	--	--	--	--	--	12.0	--	--	--	--
01-23-95	--	--	--	--	--	13.0	--	--	--	--
02-22-95	--	--	--	--	--	13.0	--	--	--	--
03-29-95	--	--	--	--	--	13.0	--	--	--	--
03-29-95	15	0.60	56	403	0.55	--	<3	<1	--	--
04-24-95	--	--	--	--	--	12.0	--	--	--	--
05-30-95	--	--	--	--	--	12.0	--	--	--	--
06-19-95	--	--	--	--	--	14.0	--	--	--	--
07-18-95	--	--	--	--	--	13.0	--	--	--	--
07-18-95	--	--	--	--	--	13.0	--	--	--	--
07-18-95	--	--	--	--	--	13.0	--	--	--	--
08-16-95	--	--	--	--	--	12.1	--	--	--	--
09-05-95	--	--	--	--	--	13.0	--	--	--	--
09-05-95	--	--	--	--	--	12.0	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	<0.050	<0.050
09-05-95	--	--	--	--	--	13.0	--	--	--	--
10-25-94	--	--	--	--	--	12.0	--	--	--	--
10-25-94	40	0.60	46	668	0.97	12.0	<3	1	--	--
10-25-94	44	0.70	63	1200	1.71	13.0	<3	<1	--	--
11-21-94	--	--	--	--	--	12.0	--	--	--	--
12-19-94	--	--	--	--	--	8.70	--	--	--	--
12-19-94	--	--	--	--	--	10.0	--	--	--	--
12-19-94	--	--	--	--	--	8.90	--	--	--	--
01-23-95	--	--	--	--	--	12.0	--	--	--	--
01-23-95	--	--	--	--	--	8.50	--	--	--	--
01-23-95	--	--	--	--	--	9.10	--	--	--	--
02-22-95	--	--	--	--	--	9.10	--	--	--	--
03-29-95	--	--	--	--	--	8.50	--	--	--	--
03-29-95	50	0.60	60	472	0.79	--	<3	<1	--	--
04-24-95	--	--	--	--	--	7.90	--	--	--	--
05-30-95	--	--	--	--	--	7.30	--	--	--	--
06-19-95	--	--	--	--	--	8.30	--	--	--	--
07-18-95	--	--	--	--	--	7.70	--	--	--	--
07-18-95	--	--	--	--	--	7.80	--	--	--	--
07-18-95	--	--	--	--	--	7.80	--	--	--	--

Middle Republican SPA--Continued

[illegible]

CHEMICAL ANALYSES OF GROUND WATER

281

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE-CIFIC CON-DUCT-ANCE (μ S/CM) (00095)
HITCHCOCK COUNTY								
401655100583203	4N 32W30DCBB 3	40 16 55 N	100 58 32 W	112SDGV	08-16-95	1535	25.00	1700
				112SDGV	09-05-95	1150	25.00	--
				112SDGV	09-05-95	1305	25.00	1680
				112SDGV	09-05-95	1310	25.00	--
				112SDGV	09-05-95	1320	25.00	--
401944101041601	4N 33W 8BD 1	40 19 44 N	101 04 16 W	--	08-15-95	1130	64.00	950
401931101031001	4N 33W 9CA 1	40 19 31 N	101 03 10 W	--	08-15-95	1115	80.00	750
401839101011201	4N 33W 14CB 1	40 18 39 N	101 01 12 W	--	08-15-95	1100	80.00	704
402036101065201	4N 34W 1BC 1	40 20 36 N	101 06 52 W	--	08-15-95	1145	116.00	446
RED WILLOW COUNTY								
400437100124301	1N 26W 2DADD 1	40 04 37 N	100 12 43 W	112SDGV	08-14-95	1315	--	1080
400357100135201	1N 26W11CBBB 1	40 03 57 N	100 13 52 W	112SDGV	10-25-94	1030	64.00	--
				112SDGV	11-22-94	1105	64.00	741
				112SDGV	12-20-94	1440	64.00	758
				112SDGV	01-24-95	1335	64.00	730
				112SDGV	02-23-95	1050	64.00	740
				112SDGV	03-30-95	1050	64.00	752
				112SDGV	03-30-95	1055	64.00	--
				112SDGV	04-25-95	1045	64.00	750
				112SDGV	04-25-95	1055	64.00	--
				112SDGV	04-25-95	1200	64.00	--
				112SDGV	05-31-95	1330	64.00	717
				112SDGV	06-20-95	1330	64.00	706
				112SDGV	07-19-95	1100	64.00	630
				112SDGV	08-15-95	1500	64.00	--
				112SDGV	08-15-95	1630	64.00	739
				112SDGV	08-15-95	1640	64.00	--
				112SDGV	09-06-95	1100	64.00	734
				112SDGV	09-06-95	1105	64.00	--
400357100135202	1N 26W11CBBB 2			112SDGV	10-25-94	1050	36.00	1120
				112SDGV	11-22-94	1120	36.00	1130
				112SDGV	12-20-94	1445	36.00	1140
				112SDGV	01-24-95	1410	36.00	1180
				112SDGV	02-23-95	1110	36.00	1280
				112SDGV	03-30-95	1120	36.00	1350
				112SDGV	03-30-95	1125	36.00	--
				112SDGV	04-25-95	1105	36.00	1330
				112SDGV	04-25-95	1115	36.00	--
				112SDGV	04-25-95	1215	36.00	--
				112SDGV	05-31-95	1345	36.00	1080
				112SDGV	06-20-95	1345	36.00	1030
				112SDGV	07-19-95	1115	36.00	1020
				112SDGV	08-15-95	1510	36.00	--
				112SDGV	08-15-95	1655	36.00	1070
				112SDGV	08-15-95	1705	36.00	--
				112SDGV	09-06-95	1120	36.00	1050
				112SDGV	09-06-95	1125	36.00	--
400330100150601	1N 26W15BB 1	40 03 30 N	100 15 06 W	--	08-14-95	1250	80.00	562
				--	08-14-95	1300	80.00	--
				--	08-14-95	1310	80.00	--
400316100242901	1N 27W18ADA 1	40 03 16 N	100 24 29 W	--	08-14-95	1220	50.00	--
400237100244401	1N 27W19AB 1	40 02 37 N	100 24 44 W	--	08-14-95	1210	52.00	1500
400210100272701	1N 28W23CB 1	40 02 10 N	100 27 27 W	--	08-14-95	1110	90.00	314
				--	08-14-95	1120	90.00	--
				--	08-14-95	1130	90.00	--
401013100360101	2N 29W 4AC 1	40 10 13 N	100 36 01 W	--	08-16-95	1120	100.00	1320
401014100391601	2N 30W 1AC 1	40 10 14 N	100 39 16 W	--	08-16-95	1035	72.00	1200
401016100391801	2N 30W 1ACDD 1	40 10 16 N	100 39 18 W	112SDGV	10-24-94	1600	72.00	1070
				112SDGV	11-21-94	1200	72.00	--
				112SDGV	11-21-94	1335	72.00	1110

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

[illegible]

CHEMICAL ANALYSES OF GROUND WATER

283

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	PHOS- GEN, AMMONIA DIS- SOLVED (MG/L AS P) (00608)	PHOSPHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGANESE, DIS- SOLVED (µG/L AS MN) (01056)	SILICA, MAZINE, WATER, DISS, REC (µG/L) (04035)
HITCHCOCK COUNTY											
08-16-95	--	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	12.0	--	--	--	--	--
09-05-95	--	--	--	--	--	12.0	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	<0.050
09-05-95	--	--	--	--	--	13.0	--	--	--	--	--
08-15-95	--	--	--	--	--	13.0	--	--	--	--	--
08-15-95	--	--	--	--	--	7.70	--	--	--	--	--
08-15-95	--	--	--	--	--	9.20	--	--	--	--	--
08-15-95	--	--	--	--	--	2.80	--	--	--	--	--

RED WILLOW COUNTY

08-14-95	--	--	--	--	--	7.60	--	--	--	--	--
10-25-94	0.60	44	437	0.63	--	--	--	--	6	130	--
11-22-94	--	--	--	--	--	0.010	--	--	--	--	--
12-20-94	--	--	--	--	--	3.50	--	--	--	--	--
01-24-95	--	--	--	--	--	0.010	--	--	--	--	--
02-23-95	--	--	--	--	--	<0.010	--	--	--	--	--
03-30-95	--	--	--	--	--	<0.010	--	--	--	--	--
03-30-95	0.60	55	409	0.57	--	--	--	--	<3	<1	--
04-25-95	--	--	--	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	0.060	--	--	--	--	--
04-25-95	--	--	--	--	--	<0.010	--	--	--	--	--
05-31-95	--	--	--	--	--	0.020	--	--	--	--	--
06-20-95	--	--	--	--	--	<0.010	--	--	--	--	--
07-19-95	--	--	--	--	--	0.100	--	--	--	--	--
08-15-95	--	--	--	--	--	6.30	--	--	--	--	--
08-15-95	--	--	--	--	--	0.100	--	--	--	--	--
08-15-95	--	--	--	--	<0.010	6.20	3.80	6.10	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--	<0.050
10-25-94	0.60	27	683	1.02	--	--	--	--	68	87	--
11-22-94	--	--	--	--	--	2.60	--	--	--	--	--
12-20-94	--	--	--	--	--	4.00	--	--	--	--	--
01-24-95	--	--	--	--	--	5.30	--	--	--	--	--
02-23-95	--	--	--	--	--	7.90	--	--	--	--	--
03-30-95	--	--	--	--	--	10.0	--	--	--	--	--
03-30-95	1.2	41	830	1.23	--	--	--	--	<3	550	--
04-25-95	--	--	--	--	--	8.70	--	--	--	--	--
04-25-95	--	--	--	--	--	10.0	--	--	--	--	--
04-25-95	--	--	--	--	--	8.90	--	--	--	--	--
05-31-95	--	--	--	--	--	2.20	--	--	--	--	--
06-20-95	--	--	--	--	--	0.600	--	--	--	--	--
07-19-95	--	--	--	--	--	3.60	--	--	--	--	--
08-15-95	--	--	--	--	--	6.20	--	--	--	--	--
08-15-95	--	--	--	--	--	1.10	--	--	--	--	--
08-15-95	--	--	--	--	<0.010	6.20	3.80	6.00	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--	<0.050
08-14-95	--	--	--	--	--	3.70	--	--	--	--	--
08-14-95	--	--	--	--	<0.010	3.90	0.020	0.060	--	--	--
08-14-95	--	--	--	--	--	3.10	--	--	--	--	--
08-14-95	--	--	--	--	--	0.400	--	--	--	--	--
08-14-95	--	--	--	--	--	6.60	--	--	--	--	--
08-14-95	--	--	--	--	--	5.10	--	--	--	--	--
08-14-95	--	--	--	--	<0.010	5.60	0.030	0.050	--	--	--
08-14-95	--	--	--	--	--	5.10	--	--	--	--	--
08-16-95	--	--	--	--	--	14.0	--	--	--	--	--
08-16-95	--	--	--	--	--	19.0	--	--	--	--	--
10-24-94	0.70	62	1120	1.71	--	--	--	--	<3	1	--
11-21-94	--	--	--	--	--	23.0	--	--	--	--	--
11-21-94	--	--	--	--	--	23.0	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

	PRO- METRYN, WATER, DISS, REC	PRO- METON, WATER, DISS, REC	DEISO- PROPYL ATRAZIN WATER, DISS, REC	DEETHYL ATRA- ZINE, WATER, DISS, REC	CYANA- ZINE, WATER, DISS, REC	AMETRYN WATER, DISS, REC,	PROP- AZINE WATER, DISS REC	METO- LACHLOR WATER DISSOLV	ATRA- ZINE, WATER, DISS, REC	ALA- CHLOR, WATER, DISS, REC,	METRI- BUZIN SENCOR WATER DISSOLV
DATE	(μ G/L) (04036)	(μ G/L) (04037)	(μ G/L) (04038)	(μ G/L) (04040)	(μ G/L) (04041)	(μ G/L) (38401)	(μ G/L) (38535)	(μ G/L) (39415)	(μ G/L) (39632)	(μ G/L) (46342)	(μ G/L) (82630)

HITCHCOCK COUNTY

[illegible]

RED WILLOW COUNTY

[illegible]

CHEMICAL ANALYSES OF GROUND WATER

285

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	
RED WILLOW COUNTY								
401016100391801	2N 30W 1ACDD 1	40 10 16 N	100 39 18 W	112SDGV	11-21-94	1345	72.00	
				112SDGV	12-19-94	1440	72.00	
				112SDGV	01-23-95	0935	72.00	
				112SDGV	02-22-95	0955	72.00	
				112SDGV	02-22-95	1005	72.00	
				112SDGV	02-22-95	1200	72.00	
				112SDGV	03-29-95	1545	72.00	
				112SDGV	03-29-95	1550	72.00	
				112SDGV	04-24-95	1340	72.00	
				112SDGV	05-22-95	1145	72.00	
				112SDGV	05-22-95	1155	72.00	
				112SDGV	05-22-95	1300	72.00	
				112SDGV	06-19-95	1025	72.00	
				112SDGV	07-18-95	1350	72.00	
				112SDGV	08-15-95	1420	72.00	
401016100391802	2N 30W 1ACDD 2			112SDGV	09-05-95	1605	72.00	
				112SDGV	09-05-95	1610	72.00	
				112SDGV	10-24-94	1620	55.00	
				112SDGV	11-21-94	1215	55.00	
				112SDGV	11-21-94	1355	55.00	
				112SDGV	11-21-94	1405	55.00	
				112SDGV	12-19-94	1500	55.00	
				112SDGV	01-23-95	0955	55.00	
				112SDGV	02-22-95	1015	55.00	
				112SDGV	02-22-95	1025	55.00	
				112SDGV	02-22-95	1215	55.00	
				112SDGV	03-29-95	1605	55.00	
				112SDGV	03-29-95	1610	55.00	
				112SDGV	04-24-95	1355	55.00	
				112SDGV	05-22-95	1200	55.00	
401016100391803	2N 30W 1ACDD 3			112SDGV	05-22-95	1210	55.00	
				112SDGV	05-22-95	1315	55.00	
				112SDGV	06-19-95	1045	55.00	
				112SDGV	07-18-95	1410	55.00	
				112SDGV	08-15-95	1440	55.00	
				112SDGV	09-05-95	1625	55.00	
				112SDGV	09-05-95	1630	55.00	
				112SDGV	10-24-94	1635	36.00	
				112SDGV	11-21-94	1230	36.00	
				112SDGV	11-21-94	1410	36.00	
				112SDGV	11-21-94	1420	36.00	
				112SDGV	12-19-94	1515	36.00	
				112SDGV	01-23-95	1006	36.00	
				112SDGV	02-22-95	1030	36.00	
				112SDGV	02-22-95	1035	36.00	
400902100422701	2N 30W 9D 1	40 09 02 N	100 42 27 W	112SDGV	02-22-95	1230	36.00	
				112SDGV	03-29-95	1620	36.00	
				112SDGV	03-29-95	1625	36.00	
				112SDGV	04-24-95	1410	36.00	
				112SDGV	05-22-95	1215	36.00	
				112SDGV	05-22-95	1330	36.00	
				112SDGV	05-30-95	1225	36.00	
				112SDGV	06-19-95	1100	36.00	
				112SDGV	07-18-95	1425	36.00	
				112SDGV	08-15-95	1505	36.00	
				112SDGV	09-05-95	1650	36.00	
				112SDGV	09-05-95	1655	36.00	
				--	08-	16-95	1000	
				--	08-16-95	1010	68.00	
				--	08-15-95	1210	57.00	
400830100430801	2N 30W 16BC	1	40 08 30 N	100 43 08 W	--			
401529100144901	3N 26W 3BD	1	40 15 29 N	100 14 49 W	--			

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA—Continued

DATE	SPECIFIC CONDUCTANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD TEMPERATURE (STANDARD UNITS) (00400)	HARDNESS TOTAL (MG/L AS CaCO_3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM DIS-SOLVED (MG/L AS Na) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CaCO_3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO_4) (00945)
RED WILLOW COUNTY										
11-21-94	--	--	--	--	--	--	--	--	--	--
12-19-94	1190	7.4	13.0	--	--	--	--	--	--	--
01-23-95	1230	7.4	13.0	--	--	--	--	--	--	--
02-22-95	1180	7.8	13.5	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	1220	7.2	13.5	--	--	--	--	--	--	--
03-29-95	--	--	--	500	130	42	130	3	28	454
04-24-95	1210	7.2	14.0	--	--	--	--	--	--	220
05-22-95	1170	7.2	13.5	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
06-19-95	1180	7.3	14.0	--	--	--	--	--	--	--
07-18-95	1160	7.2	14.0	--	--	--	--	--	--	--
08-15-95	1100	7.1	15.0	--	--	--	--	--	--	--
09-05-95	1120	7.1	14.0	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
10-24-94	1130	8.2	13.5	430	130	25	61	1	22	339
11-21-94	--	--	--	--	--	--	--	--	--	150
11-21-94	1140	8.2	14.0	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
12-19-94	1180	7.4	13.0	--	--	--	--	--	--	--
01-23-95	1190	7.3	13.0	--	--	--	--	--	--	--
02-22-95	1150	7.6	13.5	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	1200	7.9	13.0	--	--	--	--	--	--	--
03-29-95	--	--	--	560	150	44	97	2	22	337
04-24-95	1210	7.4	13.5	--	--	--	--	--	--	350
05-22-95	1160	7.2	13.5	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
06-19-95	1170	7.3	14.0	--	--	--	--	--	--	--
07-18-95	1180	7.1	14.5	--	--	--	--	--	--	--
08-15-95	1160	7.0	15.0	--	--	--	--	--	--	--
09-05-95	1120	7.1	14.0	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
10-24-94	1180	8.2	13.5	440	140	21	78	2	8.9	426
11-21-94	--	--	--	--	--	--	--	--	--	140
11-21-94	1160	8.1	13.0	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
12-19-94	1180	7.4	13.0	--	--	--	--	--	--	--
01-23-95	1170	7.3	13.0	--	--	--	--	--	--	--
02-22-95	1130	7.1	13.5	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	1160	8.0	13.0	--	--	--	--	--	--	--
03-29-95	--	--	--	460	130	33	57	1	21	258
04-24-95	1160	7.4	14.0	--	--	--	--	--	--	170
05-22-95	1110	7.2	14.0	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-30-95	--	--	--	--	--	--	--	--	--	--
06-19-95	1130	7.3	14.5	--	--	--	--	--	--	--
07-18-95	1110	7.1	15.0	--	--	--	--	--	--	--
08-15-95	1100	6.9	15.0	--	--	--	--	--	--	--
09-05-95	1080	7.1	14.0	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
08-16-95	1160	7.4	15.5	--	--	--	--	--	--	--
08-16-95	1260	7.4	15.0	--	--	--	--	--	--	--
08-15-95	900	7.4	13.5	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

287

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGANESE, DIS- SOLVED (µ G/L AS MN) (01056)	SILICA, MAZINE, WATER, DISS, REC (µ G/L) (04035)	PRO- METRYN, WATER, DISS, REC (µ G/L) (04036)
RED WILLOW COUNTY										
11-21-94	--	--	--	--	--	23.0	--	--	--	--
12-19-94	--	--	--	--	--	21.0	--	--	--	--
01-23-95	--	--	--	--	--	26.0	--	--	--	--
02-22-95	--	--	--	--	--	27.0	--	--	--	--
02-22-95	--	--	--	--	--	27.0	--	--	--	--
02-22-95	--	--	--	--	--	27.0	--	--	--	--
03-29-95	--	--	--	--	--	26.0	--	--	--	--
03-29-95	45	1.3	43	912	1.37	--	<3	210	--	--
04-24-95	--	--	--	--	--	24.0	--	--	--	--
05-22-95	--	--	--	--	--	24.0	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	24.0	--	--	--	--
06-19-95	--	--	--	--	--	28.0	--	--	--	--
07-18-95	--	--	--	--	--	24.0	--	--	--	--
08-15-95	--	--	--	--	--	18.0	--	--	--	--
09-05-95	--	--	--	--	--	22.0	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
10-24-94	32	0.50	37	661	1.03	--	<3	34	<0.050	<0.050
11-21-94	--	--	--	--	--	19.0	--	--	--	--
11-21-94	--	--	--	--	--	19.0	--	--	--	--
11-21-94	--	--	--	--	--	20.0	--	--	--	--
12-19-94	--	--	--	--	--	15.0	--	--	--	--
01-23-95	--	--	--	--	--	18.0	--	--	--	--
02-22-95	--	--	--	--	--	19.0	--	--	--	--
02-22-95	--	--	--	--	--	20.0	--	--	--	--
02-22-95	--	--	--	--	--	19.0	--	--	--	--
03-29-95	--	--	--	--	--	19.0	--	--	--	--
03-29-95	30	0.70	64	960	1.43	--	<3	<1	--	--
04-24-95	--	--	--	--	--	18.0	--	--	--	--
05-22-95	--	--	--	--	--	17.0	--	--	--	--
05-22-95	--	--	--	--	--	20.0	--	--	--	--
05-22-95	--	--	--	--	--	17.0	--	--	--	--
06-19-95	--	--	--	--	--	20.0	--	--	--	--
07-18-95	--	--	--	--	--	19.0	--	--	--	--
08-15-95	--	--	--	--	--	16.0	--	--	--	--
09-05-95	--	--	--	--	--	17.0	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
10-24-94	32	0.40	40	716	1.06	--	<3	2	<0.050	<0.050
11-21-94	--	--	--	--	--	8.80	--	--	--	--
11-21-94	--	--	--	--	--	8.70	--	--	--	--
11-21-94	--	--	--	--	--	9.20	--	--	--	--
12-19-94	--	--	--	--	--	7.30	--	--	--	--
01-23-95	--	--	--	--	--	8.80	--	--	--	--
02-22-95	--	--	--	--	--	10.0	--	--	--	--
02-22-95	--	--	--	--	--	11.0	--	--	--	--
02-22-95	--	--	--	--	--	10.0	--	--	--	--
03-29-95	--	--	--	--	--	9.30	--	--	--	--
03-29-95	59	0.60	45	671	1.08	--	<3	<1	--	--
04-24-95	--	--	--	--	--	8.20	--	--	--	--
05-22-95	--	--	--	--	--	7.80	--	--	--	--
05-22-95	--	--	--	--	--	7.70	--	--	--	--
05-30-95	--	--	--	--	--	9.20	--	--	--	--
06-19-95	--	--	--	--	--	7.80	--	--	--	--
07-18-95	--	--	--	--	--	6.80	--	--	--	--
08-15-95	--	--	--	--	--	7.70	--	--	--	--
09-05-95	--	--	--	--	--	9.30	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
08-16-95	--	--	--	--	--	13.0	--	--	<0.050	<0.050
08-16-95	--	--	--	--	--	11.0	--	--	--	--
08-15-95	--	--	--	--	--	6.20	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	PRO-METON, WATER, DISS, REC (μ G/L) (04037)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (μ G/L) (04038)	DEETHYL ATRA- ZINE, WATER, DISS, REC (μ G/L) (04040)	CYANA- ZINE, WATER, DISS, REC (μ G/L) (04041)	AMBTRYN WATER, DISS, REC (μ G/L) (38401)	PROP- AZINE WATER DISS REC (μ G/L) (38535)	METO- LACHLOR WATER DISSOLV (μ G/L) (39415)	ATRA- ZINE, WATER, DISS, REC (μ G/L) (39632)	ALA- CHLOR, WATER, DISS, REC (μ G/L) (46342)	METRI- BUZIN SENSOR WATER DISSOLV (μ G/L) (82630)
RED WILLOW COUNTY										
11-21-94	--	--	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
04-24-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
06-19-95	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
09-05-95	<0.050	<0.050	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
10-24-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
04-24-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
06-19-95	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
09-05-95	<0.050	<0.050	0.084	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
10-24-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
12-19-94	--	--	--	--	--	--	--	--	--	--
01-23-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
04-24-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-22-95	--	--	--	--	--	--	--	--	--	--
05-30-95	--	--	--	--	--	--	--	--	--	--
06-19-95	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
09-05-95	<0.050	<0.050	0.071	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
08-16-95	--	--	--	--	--	--	--	--	--	--
08-16-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

289

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)
RED WILLOW COUNTY							
401424100143201	3N 26W10DB 1	40 14 24 N	100 14 32 W	--	08-15-95	1140	170.00
401541100230401	3N 27W 4BBC 1	40 15 41 N	100 23 04 W	--	08-15-95	1250	145.00
401410100232101	3N 27W 8DD 1	40 14 10 N	100 23 21 W	--	08-15-95	1040	40.00
401454100215401	3N 27W 9AAAA 1	40 14 54 N	100 21 54 W	112SDGV	10-25-94	0920	40.00
				112SDGV	11-22-94	0950	40.00
				112SDGV	12-20-94	1155	40.00
				112SDGV	01-24-95	1055	40.00
				112SDGV	02-23-95	0910	40.00
				112SDGV	03-30-95	0930	40.00
				112SDGV	03-30-95	0935	40.00
				112SDGV	04-25-95	0925	40.00
				112SDGV	05-31-95	1130	40.00
				112SDGV	06-20-95	1140	40.00
401412100364201	3N 29W 8DDBA 1	40 14 12 N	100 36 42 W	112SDGV	07-19-95	0940	40.00
				112SDGV	08-15-95	1100	174.00
401454100215401	3N 27W 9AAAA 1	40 14 54 N	100 21 54 W	112SDGV	08-16-95	1300	40.00
				112SDGV	09-06-95	0935	40.00
				112SDGV	09-06-95	0940	40.00
401454100215402	3N 27W 9AAAA 2			112SDGV	10-25-94	0935	32.00
				112SDGV	11-22-94	1005	32.00
				112SDGV	12-20-94	1215	32.00
				112SDGV	01-24-95	1110	32.00
				112SDGV	02-23-95	0920	32.00
				112SDGV	03-30-95	0950	32.00
				112SDGV	03-30-95	0955	32.00
				112SDGV	04-25-95	0940	32.00
				112SDGV	04-25-95	0950	32.00
				112SDGV	04-25-95	1230	32.00
				112SDGV	05-31-95	1145	32.00
				112SDGV	06-20-95	1155	32.00
				112SDGV	07-19-95	1000	32.00
401412100364202	3N 29W 8DDBA 2	40 14 12 N	100 36 42 W	112SDGV	08-15-95	1120	159.00
401454100215402	3N 27W 9AAAA 2	40 14 54 N	100 21 54 W	112SDGV	08-16-95	1315	32.00
				112SDGV	09-06-95	0950	32.00
				112SDGV	09-06-95	0955	32.00
401410100192001	3N 27W12CD 1	40 14 10 N	100 19 20 W	--	08-15-95	1115	58.00
401342100301601	3N 28W17AC 1	40 13 42 N	100 30 16 W	--	08-15-95	1020	80.00
401211100315101	3N 28W30BB 1	40 12 11 N	100 31 51 W	--	08-16-95	1230	77.00
401145100310601	3N 28W30DA 1	40 11 45 N	100 31 06 W	--	08-16-95	1255	35.00
401434100380201	3N 29W 7ACC 1	40 14 34 N	100 38 02 W	--	08-15-95	1520	190.00
401412100364201	3N 29W 8DDBA 1	40 14 12 N	100 36 42 W	121OGLL	10-24-94	1420	174.00
				121OGLL	11-21-94	1515	174.00
				121OGLL	12-20-94	1015	174.00
				121OGLL	01-24-95	0935	174.00
				121OGLL	02-22-95	1530	174.00
				121OGLL	03-29-95	1200	174.00
				121OGLL	03-29-95	1400	174.00
				121OGLL	03-29-95	1405	174.00
				121OGLL	03-29-95	1410	174.00
				121OGLL	03-29-95	1420	174.00
				121OGLL	04-24-95	1515	174.00
				121OGLL	05-31-95	0950	174.00
				121OGLL	06-20-95	1000	174.00
				121OGLL	06-20-95	1010	174.00
				121OGLL	06-20-95	1200	174.00
				121OGLL	07-18-95	1510	174.00
				121OGLL	09-05-95	1015	174.00
				121OGLL	09-05-95	1020	174.00
401412100364202	3N 29W 8DDBA 2			121OGLL	10-24-94	1445	159.00
				121OGLL	11-21-94	1535	159.00

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER ($^{\circ}$ C) (00010)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)
RED WILLOW COUNTY											
08-15-95	521	7.8	14.5	--	--	--	--	--	--	--	--
08-15-95	560	7.5	14.5	--	--	--	--	--	--	--	--
08-15-95	1580	7.8	13.5	--	--	--	--	--	--	--	--
10-25-94	638	8.1	13.0	240	69	17	32	0.9	19	256	51
11-22-94	637	7.3	13.0	--	--	--	--	--	--	--	--
12-20-94	640	7.6	14.0	--	--	--	--	--	--	--	--
01-24-95	618	7.7	13.0	--	--	--	--	--	--	--	--
02-23-95	630	7.4	13.0	--	--	--	--	--	--	--	--
03-30-95	640	7.4	13.0	--	--	--	--	--	--	--	--
03-30-95	--	--	--	260	73	20	19	0.5	12	210	41
04-25-95	643	7.4	13.5	--	--	--	--	--	--	--	--
05-31-95	615	7.4	13.5	--	--	--	--	--	--	--	--
06-20-95	618	7.5	14.0	--	--	--	--	--	--	--	--
07-19-95	565	7.4	14.5	--	--	--	--	--	--	--	--
08-15-95	514	7.2	16.0	--	--	--	--	--	--	--	--
08-16-95	625	7.5	14.5	--	--	--	--	--	--	--	--
09-06-95	613	7.4	13.5	--	--	--	--	--	--	--	--
09-06-95	--	7.4	--	--	--	--	--	--	--	--	--
10-25-94	629	8.2	13.0	240	68	16	33	0.9	20	259	38
11-22-94	632	7.3	12.5	--	--	--	--	--	--	--	--
12-20-94	701	7.6	14.0	--	--	--	--	--	--	--	--
01-24-95	654	7.7	13.0	--	--	--	--	--	--	--	--
02-23-95	653	7.4	13.5	--	--	--	--	--	--	--	--
03-30-95	675	7.4	13.0	--	--	--	--	--	--	--	--
03-30-95	--	--	--	750	200	60	120	2	24	386	540
04-25-95	694	7.4	13.5	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	--	--	--	--	--	--
05-31-95	661	7.4	14.0	--	--	--	--	--	--	--	--
06-20-95	676	7.5	14.0	--	--	--	--	--	--	--	--
07-19-95	611	7.4	16.0	--	--	--	--	--	--	--	--
08-15-95	633	7.2	15.5	--	--	--	--	--	--	--	--
08-16-95	655	7.5	16.0	--	--	--	--	--	--	--	--
09-06-95	626	7.4	13.5	--	--	--	--	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--	--
08-15-95	860	7.9	13.5	--	--	--	--	--	--	--	--
08-15-95	1330	7.4	14.0	--	--	--	--	--	--	--	--
08-16-95	852	7.8	17.0	--	--	--	--	--	--	--	--
08-16-95	1500	7.3	15.0	--	--	--	--	--	--	--	--
08-15-95	680	7.8	15.5	--	--	--	--	--	--	--	--
10-24-94	510	9.0	15.0	210	55	17	20	0.6	10	218	18
11-21-94	511	8.7	15.0	--	--	--	--	--	--	--	--
12-20-94	521	7.5	15.0	--	--	--	--	--	--	--	--
01-24-95	504	7.5	15.0	--	--	--	--	--	--	--	--
02-22-95	505	7.5	15.0	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--
03-29-95	524	7.4	15.0	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	490	130	40	82	2	20	321	280
03-29-95	--	--	--	430	140	19	69	1	17	372	140
04-24-95	526	7.6	15.0	--	--	--	--	--	--	--	--
05-31-95	507	7.5	15.0	--	--	--	--	--	--	--	--
06-20-95	506	7.6	15.0	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--	--
07-18-95	518	7.4	15.5	--	--	--	--	--	--	--	--
09-05-95	503	7.6	15.0	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
10-24-94	626	8.7	15.0	250	69	20	20	0.5	12	213	41
11-21-94	625	8.5	14.5	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

291

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	MANGANESE, DIS- SOLVED (μ G/L AS MN) (01056)	SILICA, MAZINE, WATER, DISS, REC (μ G/L) (04035)	PRO- METRYN, WATER, DISS, REC (μ G/L) (04036)
RED WILLOW COUNTY										
08-15-95	--	--	--	--	--	2.10	--	--	--	--
08-15-95	--	--	--	--	--	3.70	--	--	--	--
08-15-95	--	--	--	--	--	8.70	--	--	--	--
10-25-94	17	0.60	56	415	0.58	--	<3	<1	--	--
11-22-94	--	--	--	--	--	2.30	--	--	--	--
12-20-94	--	--	--	--	--	1.90	--	--	--	--
01-24-95	--	--	--	--	--	1.60	--	--	--	--
02-23-95	--	--	--	--	--	1.60	--	--	--	--
03-30-95	--	--	--	--	--	1.70	--	--	--	--
03-30-95	20	0.70	61	373	0.57	--	<3	<1	--	--
04-25-95	--	--	--	--	--	1.60	--	--	--	--
05-31-95	--	--	--	--	--	1.80	--	--	--	--
06-20-95	--	--	--	--	--	1.90	--	--	--	--
07-19-95	--	--	--	--	--	2.20	--	--	--	--
08-15-95	--	--	--	--	--	3.80	--	--	--	--
08-16-95	--	--	--	--	--	2.20	--	--	--	--
09-06-95	--	--	--	--	--	2.10	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	<0.050	<0.050
10-25-94	15	0.60	55	401	0.57	--	<3	<1	--	--
11-22-94	--	--	--	--	--	4.60	--	--	--	--
12-20-94	--	--	--	--	--	6.70	--	--	--	--
01-24-95	--	--	--	--	--	4.50	--	--	--	--
02-23-95	--	--	--	--	--	4.10	--	--	--	--
03-30-95	--	--	--	--	--	4.50	--	--	--	--
03-30-95	57	0.70	63	1300	1.90	--	11	36	--	--
04-25-95	--	--	--	--	--	5.30	--	--	--	--
04-25-95	--	--	--	--	--	5.80	--	--	--	--
04-25-95	--	--	--	--	--	5.30	--	--	--	--
05-31-95	--	--	--	--	--	4.50	--	--	--	--
06-20-95	--	--	--	--	--	6.00	--	--	--	--
07-19-95	--	--	--	--	--	5.60	--	--	--	--
08-15-95	--	--	--	--	--	9.90	--	--	--	--
08-16-95	--	--	--	--	--	5.20	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	<0.050	<0.050
08-15-95	--	--	--	--	--	5.30	--	--	--	--
08-15-95	--	--	--	--	--	9.80	--	--	--	--
08-16-95	--	--	--	--	--	2.00	--	--	--	--
08-16-95	--	--	--	--	--	9.60	--	--	--	--
08-15-95	--	--	--	--	--	8.60	--	--	--	--
10-24-94	7.4	0.70	59	318	0.45	--	8	1	--	--
11-21-94	--	--	--	--	--	3.60	--	--	--	--
12-20-94	--	--	--	--	--	3.90	--	--	--	--
01-24-95	--	--	--	--	--	3.30	--	--	--	--
02-22-95	--	--	--	--	--	3.50	--	--	--	--
03-29-95	--	--	--	--	--	3.40	--	--	--	--
03-29-95	--	--	--	--	--	3.50	--	--	--	--
03-29-95	--	--	--	--	--	3.60	--	--	--	--
03-29-95	25	0.60	64	834	1.27	--	<3	<1	--	--
03-29-95	37	0.40	41	687	1.02	--	<3	<1	--	--
04-24-95	--	--	--	--	--	3.10	--	--	--	--
05-31-95	--	--	--	--	--	3.10	--	--	--	--
06-20-95	--	--	--	--	--	2.90	--	--	--	--
06-20-95	--	--	--	--	--	6.40	--	--	--	--
06-20-95	--	--	--	--	--	5.80	--	--	--	--
07-18-95	--	--	--	--	--	3.60	--	--	--	--
09-05-95	--	--	--	--	--	3.90	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	<0.050	<0.050
10-24-94	21	0.70	59	371	0.57	--	<3	<1	--	--
11-21-94	--	--	--	--	--	10.0	--	--	--	--

DATE	PRO-METON, WATER, DISS, REC (µ G/L) (04037)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (µ G/L) (04038)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µ G/L) (04040)	CYANA- ZINE, WATER, DISS, REC (µ G/L) (04041)	AMETRYN WATER, DISS, REC, (µ G/L) (38401)	PROP- AZINE WATER DISS REC (µ G/L) (38535)	METO- LACHLOR WATER DISSOLV (µ G/L) (39415)	ATRA- ZINE, WATER, DISS, REC (µ G/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (µ G/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (µ G/L) (82630)
RED WILLOW COUNTY										
08-15-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
10-25-94	--	--	--	--	--	--	--	--	--	--
11-22-94	--	--	--	--	--	--	--	--	--	--
12-20-94	--	--	--	--	--	--	--	--	--	--
01-24-95	--	--	--	--	--	--	--	--	--	--
02-23-95	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	--	--	--	--	--
05-31-95	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--
07-19-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
08-16-95	--	--	--	--	--	--	--	--	--	--
09-06-95	<0.050	<0.050	0.071	<0.200	<0.050	<0.050	<0.050	0.150	<0.050	<0.050
10-25-94	--	--	--	--	--	--	--	--	--	--
11-22-94	--	--	--	--	--	--	--	--	--	--
12-20-94	--	--	--	--	--	--	--	--	--	--
01-24-95	--	--	--	--	--	--	--	--	--	--
02-23-95	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--
03-30-95	--	--	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	--	--	--	--	--
04-25-95	--	--	--	--	--	--	--	--	--	--
05-31-95	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--
07-19-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
08-16-95	--	--	--	--	--	--	--	--	--	--
09-06-95	--	--	--	--	--	--	--	--	--	--
09-06-95	<0.050	<0.050	0.054	<0.200	<0.050	<0.050	<0.050	0.150	<0.050	<0.050
08-15-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
08-16-95	--	--	--	--	--	--	--	--	--	--
08-16-95	--	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--
10-24-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--
12-20-94	--	--	--	--	--	--	--	--	--	--
01-24-95	--	--	--	--	--	--	--	--	--	--
02-22-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--
04-24-95	--	--	--	--	--	--	--	--	--	--
05-31-95	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--
07-18-95	--	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--
09-05-95	<0.050	<0.050	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
10-24-94	--	--	--	--	--	--	--	--	--	--
11-21-94	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

293

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	SPECIFIC CONDUCTANCE (µ S/CM) (00095)
RED WILLOW COUNTY								
401412100364202	3N 29W 8DDBA 2	40 14 12 N	100 36 42 W	121OGLL	12-20-94	1045	159.00	642
				121OGLL	01-24-95	0955	159.00	622
				121OGLL	02-22-95	1550	159.00	617
				121OGLL	03-29-95	1215	159.00	--
				121OGLL	03-29-95	1425	159.00	645
				121OGLL	03-29-95	1430	159.00	--
				121OGLL	03-29-95	1440	159.00	--
				121OGLL	04-24-95	1535	159.00	645
				121OGLL	05-31-95	1010	159.00	619
				121OGLL	06-20-95	1025	159.00	604
				121OGLL	06-20-95	1035	159.00	--
				121OGLL	06-20-95	1215	159.00	--
				121OGLL	07-18-95	1530	159.00	635
				121OGLL	09-05-95	1040	159.00	641
				121OGLL	09-05-95	1045	159.00	--
				112SDGV	10-24-94	1505	135.00	874
				112SDGV	11-21-94	1550	135.00	878
				112SDGV	12-20-94	1055	135.00	893
401412100364203	3N 29W 8DDBA 3			112SDGV	01-24-95	1010	135.00	869
				112SDGV	02-22-95	1605	135.00	875
				112SDGV	03-29-95	1230	135.00	--
				112SDGV	03-29-95	1445	135.00	895
				112SDGV	03-29-95	1450	135.00	--
				112SDGV	03-29-95	1500	135.00	--
				112SDGV	04-24-95	1555	135.00	921
				112SDGV	05-31-95	1025	135.00	922
				112SDGV	06-20-95	1040	135.00	931
				112SDGV	06-20-95	1050	135.00	--
				112SDGV	06-20-95	1230	135.00	--
				112SDGV	07-18-95	1555	135.00	944
				112SDGV	08-15-95	1145	135.00	--
				112SDGV	09-05-95	1100	135.00	912
				112SDGV	09-05-95	1105	135.00	--
				--	08-15-95	1000	143.00	675
				--	08-15-95	0930	175.00	804
401447100333101	3N 29W11AB 1	40 14 47 N	100 33 31 W	--	08-16-95	1410	108.00	1000
401342100352801	3N 29W16AD 1	40 13 42 N	100 35 28 W	--	08-16-95	1340	114.00	1130
401513100450401	3N 30W 6CA 1	40 15 13 N	100 45 04 W	--	08-15-95	1620	51.00	986
401329100405501	3N 30W14CBB 1	40 13 29 N	100 40 55 W	--	08-16-95	0925	--	1020
401355100441401	3N 30W17BBC 1	40 13 55 N	100 44 14 W	112SDGV	08-16-95	0925	--	1020
401249100431501	3N 30W21BCCD 1	40 12 49 N	100 43 15 W	--	08-14-95	1450	45.00	1290
401132100403901	3N 30W26CD 1	40 11 32 N	100 40 39 W	--	08-14-95	1500	45.00	--
				--	08-14-95	1510	45.00	--
401119100420201	3N 30W34BBC 1	40 11 19 N	100 42 02 W	--	08-16-95	0940	53.00	1130
401607100202901	4N 27W35CA 1	40 16 07 N	100 20 29 W	--	08-15-95	1225	191.00	605
401632100310601	4N 28W31AA 1	40 16 32 N	100 31 06 W	--	08-15-95	1425	163.00	515
401632100294201	4N 28W33BB 1	40 16 32 N	100 29 42 W	--	08-15-95	1410	233.00	486
401607100202901	4N 27W35CA 1	40 16 07 N	100 20 29 W	--	08-15-95	1225	191.00	605
401619100265401	4N 28W35AC 1	40 16 19 N	100 26 54 W	--	08-15-95	1355	175.00	491
401632100252901	4N 28W36AA 1	40 16 32 N	100 25 29 W	--	08-15-95	1340	173.00	560
401553100374301	4N 29W31DB 1	40 15 53 N	100 37 43 W	--	08-15-95	1500	252.00	494
401617100350001	4N 29W34CA 1	40 16 17 N	100 35 00 W	--	08-15-95	1440	207.00	758
401723100412901	4N 30W27AB 1	40 17 23 N	100 41 29 W	--	08-15-95	1540	318.00	488
401631100425101	4N 30W33BA 1	40 16 31 N	100 42 51 W	--	08-15-95	1600	210.00	526

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (° C) (00010)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CaCO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
RED WILLOW COUNTY											
12-20-94	7.5	15.0	--	--	--	--	--	--	--	--	--
01-24-95	7.5	--	--	--	--	--	--	--	--	--	--
02-22-95	7.5	15.0	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--
03-29-95	7.4	15.0	--	--	--	--	--	--	--	--	--
03-29-95	--	--	450	140	25	61	1	23	327	150	44
03-29-95	--	--	--	--	--	--	--	--	--	--	--
04-24-95	7.6	15.0	--	--	--	--	--	--	--	--	--
05-31-95	7.5	15.0	--	--	--	--	--	--	--	--	--
06-20-95	7.6	15.0	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--	--
07-18-95	7.4	15.5	--	--	--	--	--	--	--	--	--
09-05-95	7.5	15.0	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
10-24-94	8.5	15.0	370	100	28	19	0.4	12	176	92	47
11-21-94	8.3	14.5	--	--	--	--	--	--	--	--	--
12-20-94	7.6	15.0	--	--	--	--	--	--	--	--	--
01-24-95	7.5	14.0	--	--	--	--	--	--	--	--	--
02-22-95	7.4	15.0	--	--	--	--	--	--	--	--	--
03-29-95	--	--	--	--	--	--	--	--	--	--	--
03-29-95	7.4	14.5	--	--	--	--	--	--	--	--	--
03-29-95	--	--	300	87	20	40	1	12	335	39	16
03-29-95	--	--	--	--	--	--	--	--	--	--	--
04-24-95	7.5	15.0	--	--	--	--	--	--	--	--	--
05-31-95	7.4	15.0	--	--	--	--	--	--	--	--	--
06-20-95	7.5	15.0	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	--	--	--	--	--	--
07-18-95	7.3	15.5	--	--	--	--	--	--	--	--	--
08-15-95	--	--	--	--	--	--	--	--	--	--	--
09-05-95	7.5	15.0	--	--	--	--	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	--
08-15-95	7.9	15.0	--	--	--	--	--	--	--	--	--
08-15-95	8.0	15.0	--	--	--	--	--	--	--	--	--
08-16-95	7.7	17.0	--	--	--	--	--	--	--	--	--
08-16-95	7.8	16.5	--	--	--	--	--	--	--	--	--
08-15-95	7.8	17.0	--	--	--	--	--	--	--	--	--
08-16-95	7.8	15.5	--	--	--	--	--	--	--	--	--
08-14-95	7.8	15.5	--	--	--	--	--	--	--	--	--
08-14-95	--	--	--	--	--	--	--	--	--	--	--
08-14-95	--	--	--	--	--	--	--	--	--	--	--
08-16-95	7.4	14.5	--	--	--	--	--	--	--	--	--
08-15-95	7.8	14.5	--	--	--	--	--	--	--	--	--
08-15-95	7.6	15.0	--	--	--	--	--	--	--	--	--
08-15-95	7.6	17.0	--	--	--	--	--	--	--	--	--
08-15-95	7.8	14.5	--	--	--	--	--	--	--	--	--
08-15-95	7.6	15.0	--	--	--	--	--	--	--	--	--
08-15-95	7.4	16.0	--	--	--	--	--	--	--	--	--
08-15-95	7.6	20.0	--	--	--	--	--	--	--	--	--
08-15-95	7.6	15.0	--	--	--	--	--	--	--	--	--
08-15-95	7.6	18.0	--	--	--	--	--	--	--	--	--
08-15-95	7.6	16.0	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

295

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	GEN. AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (µ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µ G/L AS MN) (01056)	SI- MAZINE, WATER, DISS. REC (µ G/L) (04035)
RED WILLOW COUNTY											
12-20-94	--	--	--	--	--	11.0	--	--	--	--	--
01-24-95	--	--	--	--	--	9.50	--	--	--	--	--
02-22-95	--	--	--	--	--	9.60	--	--	--	--	--
03-29-95	--	--	--	--	--	9.80	--	--	--	--	--
03-29-95	--	--	--	--	--	10.0	--	--	--	--	--
03-29-95	0.50	38	678	1.06	--	--	--	--	<3	15	--
03-29-95	--	--	--	--	--	10.0	--	--	--	--	--
04-24-95	--	--	--	--	--	8.40	--	--	--	--	--
05-31-95	--	--	--	--	--	--	--	--	--	--	--
06-20-95	--	--	--	--	--	8.70	--	--	--	--	--
06-20-95	--	--	--	--	--	6.40	--	--	--	--	--
06-20-95	--	--	--	--	--	5.70	--	--	--	--	--
07-18-95	--	--	--	--	--	10.0	--	--	--	--	--
09-05-95	--	--	--	--	--	12.0	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	<0.050
10-24-94	0.60	60	465	0.75	--	--	--	--	<3	<1	--
11-21-94	--	--	--	--	--	25.0	--	--	--	--	--
12-20-94	--	--	--	--	--	21.5	--	--	--	--	--
01-24-95	--	--	--	--	--	22.0	--	--	--	--	--
02-22-95	--	--	--	--	--	24.0	--	--	--	--	--
03-29-95	--	--	--	--	--	24.0	--	--	--	--	--
03-29-95	--	--	--	--	--	24.0	--	--	--	--	--
03-29-95	0.60	46	462	0.62	--	--	--	--	13	130	--
03-29-95	--	--	--	--	--	24.0	--	--	--	--	--
04-24-95	--	--	--	--	--	25.0	--	--	--	--	--
05-31-95	--	--	--	--	--	24.0	--	--	--	--	--
06-20-95	--	--	--	--	--	30.0	--	--	--	--	--
06-20-95	--	--	--	--	--	28.0	--	--	--	--	--
06-20-95	--	--	--	--	--	30.0	--	--	--	--	--
07-18-95	--	--	--	--	--	27.0	--	--	--	--	--
08-15-95	--	--	--	--	--	25.0	--	--	--	--	--
09-05-95	--	--	--	--	--	27.0	--	--	--	--	--
09-05-95	--	--	--	--	--	--	--	--	--	--	<0.050
08-15-95	--	--	--	--	--	8.10	--	--	--	--	--
08-15-95	--	--	--	--	--	16.0	--	--	--	--	--
08-16-95	--	--	--	--	--	14.0	--	--	--	--	--
08-16-95	--	--	--	--	--	15.0	--	--	--	--	--
08-15-95	--	--	--	--	--	9.90	--	--	--	--	--
08-16-95	--	--	--	--	--	6.90	--	--	--	--	--
08-14-95	--	--	--	--	--	3.10	--	--	--	--	--
08-14-95	--	--	--	--	0.020	3.20	0.150	0.060	--	--	--
08-14-95	--	--	--	--	--	3.10	--	--	--	--	--
08-16-95	--	--	--	--	--	1.60	--	--	--	--	--
08-15-95	--	--	--	--	--	6.40	--	--	--	--	--
08-15-95	--	--	--	--	--	3.30	--	--	--	--	--
08-15-95	--	--	--	--	--	2.90	--	--	--	--	--
08-15-95	--	--	--	--	--	6.40	--	--	--	--	--
08-15-95	--	--	--	--	--	2.70	--	--	--	--	--
08-15-95	--	--	--	--	--	4.10	--	--	--	--	--
08-15-95	--	--	--	--	--	2.30	--	--	--	--	--
08-15-95	--	--	--	--	--	19.0	--	--	--	--	--
08-15-95	--	--	--	--	--	2.90	--	--	--	--	--
08-15-95	--	--	--	--	--	4.20	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Middle Republican SPA--Continued

[illegible]

RED WILLOW COUNTY

[illegible]

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Special Protection Area (SPA) Big Blue River Basin

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
ADAMS COUNTY					
404038098184301	8N 9W11CAAA 1	40 40 38 N	098 18 43 W	07-17-95	1530
403649098171601	8N 9W36CDAA 1	40 36 49 N	098 17 16 W	07-17-95	1615
403912098241501	8N 10W23AACD 1	40 39 12 N	098 24 15 W	07-17-95	1430
BUTLER COUNTY					
410533097193701	13N 1E16CCAC 1	41 05 33 N	097 19 37 W	07-25-95	1130
410518097101701	13N 2E23BBDA 1	41 05 18 N	097 10 17 W	07-27-95	0930
410431097111501	13N 2E27BABA 1	41 04 31 N	097 11 15 W	07-25-95	1230
410721097040101	13N 3E 3DO 1	41 07 21 N	097 04 01 W	07-25-95	1500
410608097040701	13N 3E15AO 1	41 06 08 N	097 04 07 W	07-27-95	0900
410629097051101	13N 3E 9D 1	41 06 29 N	097 05 11 W	07-27-95	0830
411159097164501	14N 1E11ACCC 1	41 11 59 N	097 16 45 W	07-26-95	1230
410842097142101	14N 2E31ADBB 1	41 08 42 N	097 14 21 W	07-26-95	1300
411131097054201	14N 3E 9CDCD 1	41 11 31 N	097 05 42 W	07-26-95	0930
CLAY COUNTY					
403601097505601	7N 5W 2DBDD 1	40 36 01 N	097 50 56 W	07-28-95	0905
403413097501301	7N 5W13DC 1	40 34 13 N	097 50 13 W	07-18-95	1755
403418097553501	7N 5W18DCAD 1	40 34 18 N	097 55 35 W	07-25-95	1435
403616098014001	7N 6W5BD 1	40 36 16 N	098 01 40 W	07-18-95	1425
403511098054001	7N 7W10DBDD 1	40 35 11 N	098 05 40 W	07-25-95	1245
404059097534801	8N 5W9BBAA 1	40 40 59 N	097 53 48 W	07-24-95	1725
404101097571001	8N 6W12BBAA 1	40 41 01 N	097 57 10 W	07-25-95	1330
403906097581901	8N 6W23BO 1	40 39 06 N	097 58 19 W	07-18-95	1520
403827097570501	8N 6W24CD 1	40 38 27 N	097 57 05 W	07-18-95	1610
403656098001801	8N 6W33CDAA 1	40 36 56 N	098 00 18 W	07-25-95	0830
403917098075801	8N 7W20ABAA 1	40 39 17 N	098 07 58 W	07-24-95	1630
403747098144601	8N 8W29DD 1	40 37 47 N	098 14 46 W	07-18-95	1700
FILLMORE COUNTY					
403115097261201	6N 1W 4BABB 1	40 31 15 N	097 26 12 W	07-26-95	1024
402616097321901	6N 2W34CCCC 1	40 26 16 N	097 32 19 W	08-30-95	1415
403049097400101	6N 3W 4CA 1	40 30 49 N	097 40 01 W	07-17-95	1053
402905097381901	6N 3W15D 1	40 29 05 N	097 38 19 W	07-18-95	1340
403018097360501	6N 3W24CB 1	40 30 18 N	097 36 05 W	07-18-95	1230
402839097461701	6N 4W21AACB 1	40 28 39 N	097 46 17 W	07-27-95	1217
402657097462201	6N 4W33AB 1	40 26 57 N	097 46 22 W	07-18-95	1550
403509097363601	7N 3W12CCAA 1	40 35 09 N	097 36 36 W	07-21-95	0904
403536097240701	7N 1W11B 1	40 35 36 N	097 24 07 W	07-19-95	1032
403224097353301	7N 2W30CCDD 1	40 32 24 N	097 35 33 W	07-21-95	0830
403231097403701	7N 3W30DCAA 1	40 32 31 N	097 40 37 W	07-21-95	0956
403411097433001	7N 4W13CCAB 1	40 34 11 N	097 43 30 W	07-27-95	1510
403443097443601	7N 4W14BCAA 1	40 34 43 N	097 44 36 W	07-25-95	1030
403813097273201	8N 1W29B 1	40 38 13 N	097 27 32 W	07-19-95	1207
403655097240701	8N 1W35CCAA 1	40 36 55 N	097 24 07 W	07-26-95	1617
403904097335001	8N 2W20AACCC 1	40 39 04 N	097 33 50 W	07-21-95	1622

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

DATE	TEMPER- ATURE WATER (° C) (00010)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITROGEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)
ADAMS COUNTY					
07-17-95	13.0	860	7.2	7.0	1.60
07-17-95	13.5	735	7.6	7.0	9.50
07-17-95	13.5	766	6.7	7.2	4.00
BUTLER COUNTY					
07-25-95	--	627	4.3	--	8.20
07-27-95	13.5	550	0.2	7.4	0.080
07-25-95	13.0	555	0	7.3	0.150
07-25-95	14.0	713	0	7.4	0.680
07-27-95	14.5	605	--	7.5	1.50
07-27-95	14.0	682	0.2	7.2	0.180
07-26-95	12.5	931	0.6	7.0	1.60
07-26-95	13.0	533	3.3	6.9	1.20
07-26-95	12.5	630	5.4	7.3	1.70
CLAY COUNTY					
07-28-95	13.0	511	2.0	6.9	1.70
07-18-95	13.0	539	1.9	7.1	2.20
07-25-95	14.5	612	6.9	7.6	3.90
07-18-95	13.5	582	8.1	7.3	1.30
07-25-95	13.5	677	4.4	7.2	3.20
07-24-95	13.5	468	7.5	7.4	5.90
07-25-95	14.5	666	7.9	7.1	8.70
07-18-95	12.5	708	5.0	6.9	5.60
07-18-95	13.0	558	2.1	7.0	1.70
07-25-95	13.5	590	4.2	6.8	2.70
07-24-95	12.5	543	6.9	6.8	5.50
07-18-95	14.0	660	7.4	7.2	3.30
FILLMORE COUNTY					
07-26-95	12.5	490	4.5	7.0	2.90
08-30-95	13.0	520	0.4	7.4	0.140
07-17-95	13.0	557	0.1	7.3	0.660
07-18-95	13.0	677	0.2	7.0	2.00
07-18-95	13.0	616	0.1	7.1	<0.050
07-27-95	13.5	558	2.9	7.0	2.50
07-18-95	13.5	500	9.3	7.4	3.50
07-21-95	12.0	970	1.8	7.3	8.80
07-19-95	13.5	414	0.1	7.3	0.730
07-21-95	14.0	398	0.3	7.0	0.120
07-21-95	13.0	483	0.2	7.3	0.430
07-27-95	13.0	591	6.4	7.8	4.40
07-25-95	12.5	1300	3.8	6.6	19.0
07-19-95	14.0	646	0.2	7.1	1.40
07-26-95	13.5	701	0.1	7.0	2.50
07-21-95	13.0	647	14.0	7.1	6.20

CHEMICAL ANALYSES OF GROUND WATER

299

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
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FILLMORE COUNTY

404010097374301	8N	3W11CDDD 1	40 40 10 N	097 37 43 W	07-21-95	1550
403904097385401	8N	3W22BACC 1	40 39 04 N	097 38 54 W	07-25-95	1325
403831097463301	8N	4W21CDDA 1	40 38 31 N	097 46 33 W	08-29-95	1430

HAMILTON COUNTY

405628098001101	11N	6W 9AACC 1	40 56 28 N	098 00 11 W	07-20-95	1050
404353097505101	9N	5W23DDAA 1	40 43 53 N	097 50 51 W	07-19-95	1800
405351097575001	9N	6W23DACC 1	40 53 51 N	097 57 50 W	07-21-95	0905
404351097562401	9N	6W24DADD 1	40 43 51 N	097 56 24 W	07-21-95	0830
404444098073401	9N	7W16CBDD 1	40 44 44 N	098 07 34 W	07-27-95	1045
404259098073401	9N	7W28CCAB 1	40 42 59 N	098 07 34 W	07-25-95	1555
404535098161401	9N	8W 7DCAA 1	40 45 35 N	098 16 14 W	07-19-95	1000
404202098150201	9N	8W32DCDA 1	40 42 02 N	098 15 02 W	07-27-95	0955
404852097504101	10N	5W25BBBB 1	40 48 52 N	097 50 41 W	07-31-95	1255
404720097553301	10N	5W31DBDD 1	40 47 20 N	097 55 33 W	07-27-95	1220
405050097575301	10N	6W11DCAA 1	40 50 50 N	097 57 53 W	07-28-95	1115
404939098093401	10N	7W19ABBA 1	40 49 39 N	098 09 34 W	07-31-95	1115
404840098084301	10N	7W29BCAA 1	40 48 40 N	098 08 43 W	07-27-95	1120
404653098103301	10N	8W 1ABAA 1	40 46 53 N	098 10 33 W	07-19-95	1055
405445098022201	11N	6W19ADBA 1	40 54 45 N	098 02 22 W	07-20-95	1200
405648098080701	11N	7W 5D 1	40 56 48 N	098 08 07 W	07-19-95	1330
405259098040801	11N	7W36BBDD 1	40 52 59 N	098 04 08 W	07-19-95	1245
405936097541001	12N	5W21CBCC 1	40 59 36 N	097 54 10 W	07-27-95	0830
410013097584301	12N	6W14CCCC 1	41 00 13 N	097 58 43 W	07-21-95	1010
410327097535801	13N	5W33BCAA 1	41 03 27 N	097 53 58 W	07-21-95	1305

POLK COUNTY

410718097280101	13N	1W 6DDBB 1	41 07 18 N	097 28 01 W	07-26-95	1345
410632097331301	13N	2W 9CDBD 1	41 06 32 N	097 33 13 W	07-24-95	1055
410532097344501	13N	2W17CCCB 1	41 05 32 N	097 34 45 W	07-28-95	1620
410644097421801	13N	3W 7BDD 1	41 06 44 N	097 42 18 W	07-24-95	1150
410551097402301	13N	3W16CBAB 1	41 05 51 N	097 40 23 W	07-26-95	1000
410657097471301	13N	4W 9BBDD 1	41 06 57 N	097 47 13 W	07-27-95	1355
410346097380001	13N	4W26CDBA 1	41 03 46 N	097 38 00 W	07-26-95	0835
410929097371301	14N	3W26AACC 1	41 09 29 N	097 37 13 W	07-24-95	1315
410913097421201	14N	3W30DBCC 1	41 09 13 N	097 42 12 W	07-24-95	1410
410930097454101	14N	4W27ACBB 1	41 09 30 N	097 45 41 W	07-21-95	1620

SALINE COUNTY

404116097180801	8N	1E 3DBBB 1	40 41 16 N	097 18 08 W	07-27-95	1300
404058097175001	8N	1E10AABC 1	40 40 58 N	097 17 50 W	07-17-95	1710
403945097200701	8N	1E17AC 1	40 39 45 N	097 20 07 W	07-18-95	0915
404930097091401	8N	2E13C 1	40 49 30 N	097 09 19 W	07-19-95	0845
404109096590601	8N	4E 4CC 1	40 41 09 N	096 59 06 W	07-17-95	1504

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

DATE	TEMPER- ATURE WATER (°C) (00010)	SPECIFIC CON DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER FIELD (STAND- ARD UNITS) (00400)	NITROGEN, DIS- SOLVED (MG/L AS N) (00631)
FILLMORE COUNTY					
07-21-95	14.0	735	8.8	6.9	11.0
07-25-95	13.0	521	0.4	7.1	1.50
08-29-95	14.0	550	5.0	7.1	4.80
HAMILTON COUNTY					
07-20-95	13.0	605	5.7	7.1	6.90
07-19-95	13.5	555	4.6	6.8	2.10
07-21-95	12.5	636	4.2	6.9	4.00
07-21-95	13.5	627	3.8	7.0	2.20
07-27-95	13.0	652	3.3	6.9	4.30
07-25-95	13.0	592	7.2	7.2	4.90
07-19-95	12.5	831	0.6	7.0	0.720
07-27-95	12.5	732	7.8	7.1	8.40
07-31-95	12.5	542	6.9	7.6	6.90
07-27-95	13.5	503	5.9	6.8	4.60
07-28-95	13.5	714	7.7	7.5	11.0
07-31-95	12.5	515	6.3	7.0	4.00
07-27-95	14.0	554	0.5	7.4	1.00
07-19-95	12.5	694	6.4	7.3	<0.050
07-20-95	13.0	433	5.7	7.3	2.10
07-19-95	13.5	920	3.7	7.3	4.20
07-19-95	12.5	448	7.7	7.6	2.20
07-27-95	12.5	651	6.4	7.0	8.30
07-21-95	13.0	1340	5.9	7.0	17.0
07-21-95	13.0	742	5.1	7.1	11.0
POLK COUNTY					
07-26-95	14.0	502	6.3	7.5	<0.050
07-24-95	12.0	616	5.0	7.1	8.40
07-28-95	13.5	454	3.4	6.8	3.40
07-24-95	13.5	752	8.6	7.5	11.0
07-26-95	13.0	604	4.0	6.5	0.140
07-27-95	13.0	679	1.0	7.1	1.10
07-26-95	19.5	502	77.9	8.3	2.60
07-24-95	13.0	800	7.2	7.7	12.0
07-24-95	14.0	1070	8.4	7.1	29.0
07-21-95	13.0	704	4.8	7.0	4.40
SALINE COUNTY					
07-27-95	16.0	508	--	8.1	0.110
07-17-95	13.0	510	1.8	7.8	2.40
07-18-95	14.0	646	0.4	7.2	0.610
07-19-95	12.5	990	10.6	7.1	16.0
07-17-95	13.0	9	0.4	7.0	0.250

CHEMICAL ANALYSES OF GROUND WATER

301

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
SEWARD COUNTY					
405507097182301	11N 1E15CCAD 1	40 55 07 N	097 18 23 W	07-25-95	0830
405420097115401	11N 2E21DDDBA 1	40 54 20 N	097 11 54 W	07-24-95	1730
405524097062101	11N 3E17DCDC 1	40 55 24 N	097 06 21 W	07-26-95	0745
404653097193501	9N 1E 4BCAD 1	40 46 53 N	097 19 35 W	07-24-95	0845
404606097161801	9N 1E12BCBA 1	40 46 06 N	097 16 18 W	07-27-95	1230
404511097204001	9N 1E17B 1	40 45 11 N	097 20 40 W	07-19-95	0930
404630097090501	9N 2E 1CDBA 1	40 46 30 N	097 09 05 W	07-18-95	1300
404445097082401	9N 2E13DAAA 1	40 44 45 N	097 08 24 W	07-21-95	1425
404627097043601	9N 3E 3CDBB 1	40 46 27 N	097 04 36 W	07-24-95	1115
404628097035601	9N 3E 3DDDB 1	40 46 28 N	097 03 56 W	07-18-95	1500
404704097065501	9N 3E 5BABA 1	40 47 04 N	097 06 55 W	07-18-95	1615
404425097013401	9N 3E24AADA 1	40 44 25 N	097 01 34 W	07-21-95	1215
404259097054801	9N 3E28CACC 1	40 42 59 N	097 05 48 W	07-24-95	1010
404949097184801	10N 1E16DDDB 1	40 49 49 N	097 18 48 W	07-27-95	1430
404819097164001	10N 1E26DABC 1	40 48 19 N	097 16 40 W	07-19-95	1115
404708097201101	10N 1E32DCDC 1	40 47 08 N	097 20 11 W	07-20-95	1010
405208097105701	10N 2E 3A 1	40 52 08 N	097 10 57 W	07-19-95	1530
404957097053201	10N 3E16DCBB 1	40 49 57 N	097 05 32 W	07-18-95	1700
404905097073201	10N 3E19DBDB 1	40 49 05 N	097 07 32 W	07-21-95	1615
404752097003901	10N 4E31AACB 1	40 47 52 N	097 00 39 W	07-19-95	1400
405709097164201	11N 1E 2ACDD 1	40 57 09 N	097 16 42 W	07-26-95	1745
405512097160501	11N 1E13CCAA 1	40 55 12 N	097 16 05 W	07-24-95	1430
405502097163901	11N 1E14DDCB 1	40 55 02 N	097 16 39 W	07-24-95	1330
405313097164901	11N 1E35ABAB 1	40 53 13 N	097 16 49 W	07-24-95	1230
405726097090801	11N 2E 1BACD 1	40 57 26 N	097 09 08 W	07-28-95	1600
405551097110801	11N 2E10DCCC 1	40 55 51 N	097 11 08 W	07-24-95	1540
405643097125501	11N 2W 4CCCC 1	40 56 43 N	097 12 55 W	07-26-95	1815
405256097081001	11N 3E31BCAA 1	40 52 56 N	097 08 10 W	07-21-95	0830
410026097175101	12N 1E15DCAA 1	41 00 26 N	097 17 51 W	07-25-95	0930
405821097151401	12N 1E36AADA 1	40 58 21 N	097 15 14 W	07-28-95	1510
410034097033401	12N 3E14CBAC 1	41 00 34 N	097 03 34 W	07-28-95	1100
410035097033001	12N 3E14CBAD 1	41 00 35 N	097 03 30 W	07-28-95	1130
YORK COUNTY					
403616097404401	7N 3W 5ACDD 1	40 36 16 N	097 40 44 W	07-25-95	1150
405032097212801	9N 1W 2BB 1	40 50 32 N	097 21 28 W	07-17-95	1728
404353097353801	9N 2W19CBDD 1	40 43 53 N	097 35 38 W	07-28-95	1220
404404097312401	9N 2W22DABA 1	40 44 04 N	097 31 24 W	07-25-95	1635
404702097385801	9N 3W 3BACB 1	40 47 02 N	097 38 58 W	08-29-95	1200
404405097331001	9N 3W23DABA 1	40 44 05 N	097 33 10 W	07-24-95	0833
404428097361401	9N 3W24AABC 1	40 44 28 N	097 36 14 W	07-28-95	1131
404326097361801	9N 3W25ACBB 1	40 43 26 N	097 36 18 W	07-24-95	0947
404331097395901	9N 3W28BACA 1	40 43 31 N	097 39 59 W	08-29-95	1340
404706097435101	9N 4W 1BBBB 1	40 47 06 N	097 43 51 W	07-24-95	1117
404641097470001	9N 4W 4CABB 1	40 46 41 N	097 47 00 W	07-24-95	1148
404301097460001	9N 4W27CCBB 1	40 43 01 N	097 46 00 W	07-24-95	1345
405208097233201	10N 1W 2AACC 1	40 52 08 N	097 23 32 W	07-26-95	1058
405023097244201	10N 1W15AACC 1	40 50 23 N	097 24 42 W	07-25-95	1721

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

DATE	TEMPER- ATURE WATER (°C) (00010)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITROGEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)
SEWARD COUNTY					
07-25-95	--	457	9.0	--	6.10
07-24-95	13.0	560	5.6	6.9	3.30
07-26-95	14.0	862	1.5	7.2	1.60
07-24-95	13.0	611	0.1	7.4	0.140
07-27-95	15.0	558	--	7.6	1.90
07-19-95	12.5	483	5.6	7.0	8.60
07-18-95	13.0	1200	13.0	7.0	20.0
07-21-95	15.5	539	0	7.6	<0.050
07-24-95	13.0	615	6.7	7.0	9.20
07-18-95	15.0	571	0.5	7.5	0.050
07-18-95	13.0	517	8.3	7.1	5.40
07-21-95	15.0	671	0.1	8.6	<0.050
07-24-95	12.5	913	8.9	7.3	24.0
07-27-95	13.0	514	--	7.0	11.0
07-19-95	13.0	573	3.1	7.0	3.00
07-20-95	14.0	601	3.4	7.5	0.100
07-19-95	12.0	1510	5.5	6.6	23.0
07-18-95	12.0	1030	12.7	7.0	14.0
07-21-95	12.5	468	12.2	7.1	4.30
07-19-95	14.5	568	0	7.6	<0.050
07-26-95	13.5	508	6.5	6.9	5.00
07-24-95	13.0	569	7.0	6.8	9.00
07-24-95	13.0	602	--	7.2	9.60
07-24-95	13.0	539	--	7.1	5.70
07-28-95	12.5	1260	5.0	6.9	14.0
07-24-95	12.0	530	6.6	7.1	5.80
07-26-95	13.0	495	6.9	7.0	3.90
07-21-95	12.0	894	8.6	6.9	41.0
07-25-95	--	581	1.9	--	1.40
07-28-95	14.5	516	8.0	7.0	6.70
07-28-95	14.0	780	0	8.2	<0.050
07-28-95	12.0	1050	4.6	6.9	7.50
YORK COUNTY					
07-25-95	13.5	440	1.4	7.0	0.180
07-17-95	13.0	430	6.7	6.9	2.80
07-28-95	11.5	711	4.6	7.0	6.30
07-25-95	13.5	605	1.4	7.4	2.70
08-29-95	14.5	580	6.5	7.1	5.20
07-24-95	13.5	615	10.0	8.0	7.00
07-28-95	12.0	534	6.9	7.0	4.50
07-24-95	11.5	930	9.2	7.0	11.0
08-29-95	14.5	480	7.5	7.3	2.90
07-24-95	13.0	590	6.4	7.1	6.00
07-24-95	12.5	576	8.0	7.6	6.20
07-24-95	12.5	609	2.5	6.9	5.60
07-26-95	13.5	601	6.6	7.1	8.90
07-25-95	13.5	550	0.3	7.3	0.180
07-25-95	13.5	550	0.3	7.3	0.180

CHEMICAL ANALYSES OF GROUND WATER

303

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
YORK COUNTY					
405110097345901	10N 2W 7ACCC 1	40 51 10 N	097 34 59 W	07-26-95	1359
405118097324401	10N 2W 9A 1	40 51 18 N	097 32 44 W	07-17-95	1828
404931097320401	10N 2W22BBDD 1	40 49 31 N	097 32 04 W	07-27-95	1510
405208097402601	10N 3W 5AD 1	40 52 08 N	097 40 26 W	07-18-95	1755
405012097455201	10N 4W15BDDD 1	40 50 12 N	097 45 52 W	07-24-95	1626
404839097484301	10N 4W30ACAA 1	40 48 39 N	097 48 43 W	07-24-95	1450
404718097493201	10N 4W31CCBC 1	40 47 18 N	097 49 32 W	07-24-95	1419
405409097282401	11N 1W 1DA 1	40 54 09 N	097 28 24 W	07-17-95	1529
405615097242901	11N 1W10DABA 1	40 56 15 N	097 24 29 W	08-30-95	1615
405505097230401	11N 1W13CC 1	40 55 05 N	097 23 04 W	07-17-95	1612
405735097340001	11N 2W 5AB 1	40 57 35 N	097 34 00 W	07-17-95	1130
403456097313201	11N 2W22AB 1	40 34 56 N	097 31 32 W	07-17-95	1240
405255097312201	11N 2W35BB 1	40 52 55 N	097 31 22 W	07-21-95	1420
405357097381001	11N 3W27AAAD 1	40 53 57 N	097 38 10 W	07-26-95	1555
405305097430001	11N 4W36ACAA 1	40 53 05 N	097 43 00 W	07-20-95	1425
410220097275001	12N 1W 5CBBB 1	41 02 20 N	097 27 50 W	07-20-95	0815
410246097320801	12N 2W 3BABB 1	41 02 46 N	097 32 08 W	07-19-95	1733
410234097353501	12N 2W 6BDDD 1	41 02 34 N	097 35 35 W	07-19-95	1506
410024097291601	12N 2W13DBDD 1	41 00 22 N	097 29 16 W	07-24-95	1800
410008097515801	12N 2W22BABA 1	41 00 08 N	097 31 58 W	07-19-95	1655
410232097422501	12N 3W 6BDBB 1	41 02 32 N	097 42 25 W	07-19-95	1555
405925097395201	12N 3W21DCBD 1	40 59 25 N	097 39 52 W	07-24-95	1721
405843097484601	12N 4W30DBDD 1	40 58 43 N	097 48 46 W	08-29-95	1030

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Big Blue River Basin SPA--Continued

DATE	TEMPER- ATURE WATER (°C) (00010)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITROGEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)
YORK COUNTY					
07-26-95	14.0	616	5.3	6.2	27.0
07-17-95	12.5	1030	11.3	7.0	16.0
07-27-95	13.0	541	7.8	7.0	9.40
07-18-95	12.5	715	12.5	7.1	10.0
07-24-95	13.0	620	6.0	7.1	6.10
07-24-95	13.5	548	6.7	7.1	4.50
07-24-95	13.5	587	6.9	7.1	6.80
07-17-95	13.5	646	7.8	6.7	12.0
08-30-95	13.0	560	8.4	7.2	13.0
07-17-95	13.0	574	8.6	6.7	10.0
07-17-95	13.0	651	4.4	6.9	7.90
07-17-95	16.0	700	7.7	7.3	12.0
07-21-95	12.5	782	10.3	7.5	11.0
07-26-95	13.0	709	7.4	7.5	12.0
07-20-95	12.5	837	9.4	7.4	18.0
07-20-95	12.0	553	8.3	7.0	4.50
07-19-95	12.5	511	7.2	7.4	3.70
07-19-95	13.5	590	5.9	6.9	6.50
07-24-95	12.0	561	3.7	6.8	3.40
07-26-95	12.5	554	3.9	7.0	3.40
07-19-95	13.0	528	2.0	7.0	1.90
07-19-95	12.5	502	1.7	7.0	1.00
07-24-95	12.0	674	9.3	7.0	8.80
08-29-95	14.0	660	6.7	7.1	5.50

CHEMICAL ANALYSES OF GROUND WATER

305

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Nemaha Basin Ground-water Reconnaissance

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
GAGE COUNTY					
403105096355701	6N 7E 2ACCB 1	40 31 05 N	096 35 57 W	08-31-95	1130
402903096280601	6N 8E13DO 1	40 29 03 N	096 28 06 W	07-20-95	1213
402837096313301	6N 8E24BADO 1	40 28 37 N	096 31 33 W	07-26-95	1507
402800096284001	6N 8E24CCCC 1	40 28 00 N	096 28 40 W	11-29-94	1220
				11-29-94	1225
				01-24-95	1750
				03-28-95	1655
				05-31-95	1730
				07-24-95	1605
				09-26-95	0900
402746096291201	6N 8E26AACC 1	40 27 46 N	096 29 12 W	07-20-95	1115
402756096294601	6N 8E26BABB 1	40 27 56 N	096 29 46 W	07-20-95	1120
				07-20-95	1350
JOHNSON COUNTY					
402519096175201	5N 10E 9AABB 1	40 25 19 N	096 17 52 W	08-28-95	1144
402437096173101	5N 10E10CCBC 1	40 24 37 N	096 17 31 W	07-20-95	1350
402338096164501	5N 10E15DCDD 1	40 23 38 N	096 16 45 W	07-20-95	1325
403039096274701	6N 9E 6CCCB 1	40 30 39 N	096 27 47 W	09-05-95	1410
402857096250101	6N 9E16CDAA 1	40 28 57 N	096 25 01 W	07-31-95	1108
402807096251901	6N 9E21CCAO 1	40 28 07 N	096 25 19 W	07-28-95	1207
402812096244701	6N 9E21DBDC 1	40 28 12 N	096 24 47 W	07-20-95	1440
402727096210801	6N 9E25DABD 1	40 27 27 N	096 21 08 W	07-28-95	1517
402707096211601	6N 9E 25DCD 1	40 27 07 N	096 21 16 W	07-28-95	1546
402707096272701	6N 9E30CDCB 1	40 27 07 N	096 27 27 W	07-24-95	1533
402600096253701	6N 9E32AAAA 1	40 26 00 N	096 25 37 W	07-31-95	1034
403112096094101	6N 11E 3ADAA 1	40 31 12 N	096 09 41 W	08-29-95	1045
403123096115001	6N 11E 5AAAA 1	40 31 23 N	096 11 50 W	11-28-94	1200
				01-24-95	1510
				03-28-95	1030
				05-31-95	1050
				07-20-95	1110
				09-26-95	1040
402952096060801	6N 12E 8CCAA 1	40 29 52 N	096 06 08 W	07-26-95	1336
402952096063401	6N 12E07DACC 1	40 29 52 N	096 06 34 W	07-26-95	1411
				07-26-95	1416
LANCASTER COUNTY					
403223096342501	7N 7E25DDDB 1	40 32 23 N	096 34 25 W	07-28-95	0948
403154096362201	7N 7E35BCDC 1	40 31 54 N	096 36 22 W	07-20-95	1444
403316096340501	7N 8E19CDCB 1	40 33 16 N	096 34 05 W	07-28-95	1110
403348096320301	7N 8E21BDBB 1	40 33 48 N	096 32 03 W	07-20-95	1525
NEMAHA COUNTY					
403034096011801	6N 12E 1CDCD 1	40 30 34 N	096 01 18 W	07-20-95	1610
403008096035501	6N 12E10BCCC 1	40 30 08 N	096 03 55 W	07-24-95	1400
403056095580501	6N 13E 4CBAA 1	40 30 56 N	095 58 05 W	08-04-95	1100
403018095571601	6N 13E 9ADAA 1	40 30 18 N	095 57 16 W	08-04-95	1132
402955095555101	6N 13E11CBBC 1	40 29 55 N	095 55 51 W	07-24-95	1216
402847095581901	6N 13E16CCCC 1	40 28 47 N	095 58 19 W	11-28-94	1426
				01-24-95	1016
				03-28-95	1355
				05-31-95	1340
				05-31-95	1345

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Nemaha Basin Ground-water Reconnaissance--Continued

DATE	TIME	TEMPER- ATURE WATER (°C) (00010)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)
GAGE COUNTY								
08-31-95	1130	13.0	516	8.0	7.4	3.80	3.80	3.80
07-20-95	1213	13.5	608	1.5	7.4	0.540	0.540	0.540
07-26-95	1517	13.5	408	4.4	7.4	5.60	5.60	5.60
11-29-94	1220	12.5	410	7.0	7.2	3.60	3.60	3.60
11-29-94	1225	12.5	410	7.0	7.2	3.60	3.60	3.60
01-24-95	1750	13.0	411	6.9	7.0	3.60	3.60	3.60
03-28-95	1655	13.0	409	6.6	7.1	3.70	3.70	3.70
05-31-95	1730	13.0	408	--	7.5	4.00	4.00	4.00
07-24-95	1605	13.0	411	7.1	7.5	3.80	3.80	3.80
09-26-95	0900	13.0	405	7.2	6.9	3.70	3.70	3.70
07-20-95	1115	12.5	505	4.3	6.8	12.0	12.0	12.0
07-20-95	1120	12.5	505	4.3	6.8	11.0	11.0	11.0
07-20-95	1350	12.5	502	4.9	6.8	5.80	5.80	5.80
JOHNSON COUNTY								
08-28-95	1144	13.0	737	1.2	7.1	1.10	1.10	1.10
07-20-95	1350	14.0	689	4.0	7.3	1.60	1.60	1.60
07-20-95	1325	13.5	461	1.6	7.8	--	--	<0.050
09-05-95	1410	13.0	816	0.3	7.2	0.230	0.230	0.230
07-31-95	1108	13.0	910	1.6	7.3	0.430	0.430	0.430
07-28-95	1207	13.5	490	7.4	7.6	1.20	1.20	1.20
07-20-95	1440	13.5	669	1.4	7.3	1.20	1.20	1.20
07-28-95	1517	13.0	493	7.1	7.3	2.80	2.80	2.80
07-28-95	1546	13.5	501	6.2	7.4	0.710	0.710	0.710
07-24-95	1533	13.5	393	2.3	7.5	5.50	5.50	5.50
07-31-95	1034	13.0	493	2.0	6.8	17.0	17.0	17.0
08-29-95	1045	13.0	528	1.0	7.4	2.20	2.20	2.20
11-28-94	1200	13.0	487	6.6	7.4	4.00	4.00	4.00
01-24-95	1510	13.0	488	6.9	7.3	4.40	4.40	4.40
03-28-95	1030	13.0	526	3.6	7.3	2.10	2.10	2.10
05-31-95	1050	13.0	487	7.7	7.3	4.60	4.60	4.60
07-20-95	1110	12.5	473	7.9	7.4	4.90	4.90	4.90
09-26-95	1040	12.5	478	8.3	7.2	4.90	4.90	4.90
07-26-95	1336	13.0	733	0.9	7.8	3.40	3.40	3.40
07-26-95	1411	13.5	802	0.6	7.7	3.30	3.30	3.30
07-26-95	1416	13.5	802	0.6	7.7	3.30	3.30	3.30
LANCASTER COUNTY								
07-28-95	0948	12.5	635	1.9	7.6	1.70	1.70	1.70
07-20-95	1444	13.0	577	7.0	7.2	7.90	7.90	7.90
07-28-95	1110	14.0	1090	0.1	7.4	0.090	0.090	0.090
07-20-95	1525	13.5	725	0.1	7.2	--	--	<0.050
NEMAHA COUNTY								
07-20-95	1610	13.0	743	0.3	7.8	0.160	0.160	0.160
07-24-95	1400	13.5	636	3.1	7.7	4.00	4.00	4.00
08-04-95	1100	12.5	589	0.2	6.9	0.230	0.230	0.230
08-04-95	1132	12.5	543	0.2	7.3	0.710	0.710	0.710
07-24-95	1216	13.0	569	0.5	7.1	1.20	1.20	1.20
11-28-94	1426	12.5	322	8.3	7.1	6.10	6.10	6.10
01-24-95	1016	7.5	581	3.0	7.4	3.50	3.50	3.50
03-28-95	1355	8.0	574	1.7	7.4	3.20	3.20	3.20
05-31-95	1340	12.5	310	8.8	7.0	6.00	6.00	6.00
05-31-95	1345	12.5	310	8.8	7.0	5.70	5.70	5.70

CHEMICAL ANALYSES OF GROUND WATER

307

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Nemaha Basin Ground-water Reconnaissance

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
NEMAHA COUNTY					
402847095581901	6N 13E16CCCC 1	40 28 47 N	095 58 19 W	07-24-95	1045
402848095593501	6N 13E18DDCC 1	40 28 48 N	095 59 35 W	09-26-95	1340
402846095582101	6N 13E20AAAB 1	40 28 46 N	095 58 21 W	07-31-95	1335
				07-24-95	1222
				07-24-95	1127
OTOE COUNTY					
403216096175701	7N 10E33ABAB 1	40 32 16 N	096 17 57 W	11-28-94	1320
				01-24-95	1547
				03-28-95	1200
				03-28-95	1205
				05-31-95	1135
				07-20-95	1155
				09-26-95	1140
403213096171601	7N 10E34BABB 1	40 32 13 N	096 17 16 W	09-26-95	1145
				08-28-95	1530
PAWNEE COUNTY					
401320096073601	3N 11E13DDBB 1	40 13 20 N	096 07 36 W	07-26-95	1142
401359096093501	3N 11E14BBBB 1	40 13 59 N	096 09 35 W	07-28-95	1305
RICHARDSON COUNTY					
401358095490801	3N 14E 11CCDC 1	40 13 58 N	095 49 08 W	09-06-95	1200
401524095561001	3N 13E 3ADAD 1	40 15 24 N	095 56 10 W	07-25-95	1150
401537095590501	3N 13E 5BAAA 1	40 15 37 N	095 59 05 W	07-25-95	1252
401426095550201	3N 13E11ADDD 1	40 14 26 N	095 55 02 W	07-25-95	1350
401359095565901	3N 13E15BBAA 1	40 13 59 N	095 56 59 W	11-28-94	1640
				01-24-95	1352
				03-28-95	1525
				05-31-95	1545
				07-20-95	1056
				07-25-95	1051
401520095495601	3N 14E 3BDDD 1	40 15 20 N	095 49 56 W	09-26-95	1520
401451095500001	3N 14E 3CDDC 1	40 14 51 N	095 50 00 W	07-25-95	1428
401534095534301	3N 14E 6AADC 1	40 15 34 N	095 53 43 W	09-06-95	1240
401348095490101	3N 14E14BACC 1	40 13 48 N	095 49 01 W	08-04-95	1545
				08-23-95	1035
401325095483101	3N 14E14DBDA 1	40 13 25 N	095 48 31 W	08-23-95	1040
401308095465401	3N 15E18CCDC 1	40 13 08 N	095 46 54 W	08-23-95	1145
401305095461601	3N 15E19AABB 1	40 13 05 N	095 46 16 W	09-06-95	1334
401158095454401	3N 15E29BCAA 1	40 11 58 N	095 45 44 W	08-23-95	1415
				08-04-95	1350

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Nemaha Basin Ground-water Reconnaissance--Continued

DATE	TIME	TEMPER- ATURE WATER (°C) (00010)	SPECIFIC CON- DUCT- ANCE (μ S/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)
NEMAHA COUNTY								
07-24-95	1045	18.5	560	2.6	7.7	3.30	3.30	3.30
09-26-95	1340	13.0	318	8.4	6.8	5.30	5.30	5.30
07-31-95	1335	14.0	560	0.4	7.6	7.90	7.90	7.90
07-24-95	1122	13.0	366	7.3	7.3	8.20	8.20	8.20
07-24-95	1127	13.0	366	7.7	7.3	8.20	8.20	8.20
OTOE COUNTY								
11-28-94	1320	13.0	508	5.9	7.4	5.80	5.80	5.80
01-24-95	1547	11.5	546	8.6	7.4	7.10	7.10	7.10
03-28-95	1200	11.5	545	7.8	7.3	7.20	7.20	7.20
03-28-95	1205	11.5	545	7.8	7.3	7.30	7.30	7.30
05-31-95	1135	13.5	530	9.5	7.4	6.80	6.80	6.80
07-20-95	1155	13.5	538	8.6	7.6	6.90	6.90	6.90
09-26-95	1140	13.5	529	8.5	7.4	6.30	6.30	6.30
09-26-95	1145	13.5	529	8.5	7.4	6.30	6.30	6.30
08-28-95	1530	13.5	376	8.1	7.1	3.70	3.70	3.70
PAWNEE COUNTY								
07-26-95	1142	14.0	664	0.1	7.9	0.310	0.310	0.310
07-28-95	1305	13.5	572	2.7	7.7	1.20	1.20	1.20
RICHARDSON COUNTY								
09-06-95	1200	13.5	593	0.5	7.2	0.900	0.900	0.900
07-25-95	1150	13.5	1430	6.1	7.1	26.0	26.0	26.0
07-25-95	1252	14.5	892	0.1	7.6	0.270	0.270	0.270
07-25-95	1350	13.5	633	7.5	7.6	9.90	9.90	9.90
11-28-94	1640	12.5	617	8.6	7.5	9.00	9.00	9.00
01-24-95	1352	10.0	598	--	7.5	5.40	5.40	5.40
03-28-95	1525	9.5	640	8.9	7.4	8.40	8.40	8.40
05-31-95	1545	12.5	622	8.0	7.2	8.70	8.70	8.70
07-20-95	1056	14.0	643	8.2	7.9	8.70	8.70	8.70
07-25-95	1051	14.0	643	8.2	7.9	8.70	8.70	8.70
09-26-95	1520	16.0	640	8.1	7.4	8.30	8.30	8.30
07-25-95	1428	13.5	627	7.7	7.8	3.20	3.20	3.20
09-06-95	1240	15.5	863	0.1	7.4	--	--	<0.050
08-04-95	1545	15.0	364	5.6	7.7	7.00	7.00	7.00
08-23-95	1035	13.5	635	6.3	7.6	3.50	3.50	3.50
08-23-95	1040	--	--	--	--	3.50	3.50	3.50
08-23-95	1145	12.5	460	7.4	7.6	8.80	8.80	8.80
09-06-95	1334	15.0	568	9.5	6.9	21.0	21.0	21.0
08-23-95	1415	14.5	477	8.1	7.1	12.0	12.0	12.0
08-04-95	1350	16.0	408	4.6	8.4	7.90	7.90	7.90

CHEMICAL ANALYSES OF GROUND WATER

309

Local identifier: indicates location by township, range, and section. Geologic unit: 110 SDGV, Quaternary sand and gravel deposits, undifferentiated; 111 ALVM, Holocene alluvium; 112 SDGV, Pleistocene sand and gravel deposits; 121 OGLL, Pliocene Ogallala Formation; 122 ARKR, Miocene Arikaree Group; 123 BRUL, Oligocene Brule Formation; 123 CDRN, Oligocene Chadron Formation; 123 CDRNB, Oligocene Chadron Formation, basal sand and gravel; 211 FXHL, Upper Cretaceous Fox Hills Formation; 211 LNCE, Upper Cretaceous Lance Formation.)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL TOTAL (FEET) (72008)
BUTLER COUNTY							
410715097010501	13N 4E 6CDBC 1	41 07 15 N	097 01 05 W	--	07-27-95	0933	365.00
410448096592701	13N 4E20DBDA 1	41 04 48 N	096 59 27 W	--	07-24-95	1129	--
CASS COUNTY							
404900096254601	10N 9E20DACD 1	40 49 00 N	096 25 46 W	112SDGV	08-23-95	1102	242.00
425100095510401	10N 14E16BBBA 1	42 51 00 N	095 51 04 W	112SDGV	08-16-95	1024	100.00
404802095505801	10N 14E28CCAD 1	40 48 02 N	095 50 58 W	112SDGV	08-07-95	1207	62.00
404704095523501	10N 14E31DDDC 1	40 47 04 N	095 52 35 W	112SDGV	08-23-95	1706	--
410042096231301	12N 9E15CADA 1	41 00 42 N	096 23 13 W	112SDGV	07-17-95	1216	--
410002096232501	12N 9E22AABA 1	41 00 02 N	096 23 25 W	112SDGV	07-17-95	1405	93.00
405846096261001	12N 9E29BDDD 1	40 58 46 N	096 26 10 W	112SDGV	07-14-95	1355	80.00
405754096274701	12N 9E31CBBB 1	40 57 54 N	096 27 47 W	112SDGV	07-14-95	1145	93.00
405748096262901	12N 9E32CBAD 1	40 57 48 N	096 26 29 W	112SDGV	07-17-95	1055	105.50
410039096092401	12N 11E14BCBD 1	41 00 39 N	096 09 24 W	112SDGV	07-31-95	1205	--
410131095524701	12N 14E 7ACDA 1	41 01 31 N	095 52 47 W	112SDGV	08-23-95	1433	72.00
410326096204301	13N 10E31BBAC 1	41 03 26 N	096 20 43 W	112SDGV	08-16-95	0801	96.00
410247096055901	13N 12E31DDDD 1	41 02 47 N	096 05 59 W	112SDGV	09-06-95	0903	--
410255095570801	13N 13E33DCAA 1	41 02 55 N	095 57 08 W	112SDGV	09-06-95	0751	80.00
410252095562201	13N 13E34CDAC 1	41 02 52 N	095 56 22 W	112SDGV	08-07-95	1531	--
				112SDGV	08-07-95	1536	--
410305096552701	13N 13E35CBAC 1	41 03 05 N	095 55 27 W	110QRNR	08-23-95	1316	61.00
LANCASTER COUNTY							
403340096503301	7N 5E22ACDA 1	40 33 40 N	096 50 33 W	112SDGV	07-26-95	0941	192.00
403505096423301	7N 6E11D 1	40 35 05 N	096 42 33 W	112SDGV	07-11-95	1150	216.00
403425096425001	7N 6E14DBBB 1	40 34 25 N	096 42 50 W	112SDGV	07-11-95	1610	258.00
				112SDGV	07-11-95	1615	258.00
403347096465501	7N 6E19AACD 1	40 33 47 N	096 46 55 W	112SDGV	07-12-95	1055	257.00
403228096444901	7N 6E28DO 1	40 32 28 N	096 44 49 W	112SDGV	07-18-95	1128	300.00
403227096472301	7N 6E30CDAA 1	40 32 27 N	096 47 23 W	112SDGV	08-22-95	1516	306.00
403203096463001	7N 6E32B 1	40 32 03 N	096 46 30 W	112SDGV	07-18-95	1008	282.00
403456096373901	7N 7E10CCCD 1	40 34 56 N	096 37 39 W	112SDGV	07-12-95	1405	104.00
403533096350501	7N 7E12BACD 1	40 35 33 N	096 35 05 W	112SDGV	08-22-95	1320	--
403452096372801	7N 7E15BABB 1	40 34 52 N	096 37 28 W	112SDGV	07-12-95	1300	100.00
403740096444701	8N 6E28DDBA 1	40 37 40 N	096 44 47 W	112SDGV	07-18-95	1445	45.00
403645096303901	8N 8E34DCBC 1	40 36 45 N	096 30 39 W	112SDGV	07-11-95	1330	228.00
				112SDGV	07-11-95	1351	228.00
404335096521001	9N 5E28BBAA 1	40 43 35 N	096 52 10 W	211DKOT	09-28-95	1213	185.00
404414096421201	9N 6E 23AAD 1	40 44 14 N	096 42 12 W	211DKOT	08-10-95	1626	140.00
404638096354101	9N 7E 2AB 1	40 46 38 N	096 35 41 W	211DKOT	09-06-95	1245	190.00
404527096380801	9N 7E 9CDAD 1	40 45 27 N	096 38 08 W	211DKOT	09-07-95	1430	206.00
404544096354101	9N 7E 11DB 1	40 45 44 N	096 35 41 W	211DKOT	09-06-95	1147	257.00
404514096400401	9N 7E18AACB 1	40 45 14 N	096 40 04 W	211DKOT	09-07-95	1054	117.00
404858096521401	10N 5E21CCAD 1	40 48 58 N	096 52 14 W	211DKOT	08-24-95	1204	49.00
404825096522001	10N 5E28BCCC 1	40 48 25 N	096 52 20 W	211DKOT	08-24-95	1107	95.00
404802096523201	10N 5E29DDCA 1	40 48 02 N	096 52 32 W	211DKOT	08-24-95	1019	104.00
405132096414901	1 ON 6E 1CDCB 1	40 51 32 N	096 41 49 W	211DKOT	09-07-95	0910	143.00
404814096352701	10N 7E26DBCA 1	40 48 14 N	096 35 27 W	211DKOT	08-03-95	1410	205.00
405713096412901	11N 6E 1BDAD 1	40 57 13 N	096 41 29 W	211DKOT	08-03-95	1546	185.00
405320096341001	11N 7E25DDBA 1	40 53 20 N	096 34 10 W	112SDGV	07-14-95	1510	60.00

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

DATE	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (°C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO ₃) (00900)	ALKA- LITY LAB (MG/L AS CaCO ₃) (90410)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
BUTLER COUNTY											
07-27-95	825	7.1	14.0	4.7	390	261	480	110	29	20	7.5
07-24-95	777	7.4	13.0	0.3	320	332	457	86	26	32	22
CASS COUNTY											
08-23-95	846	7.2	14.5	0.1	340	326	478	92	27	56	3.6
08-16-95	653	7.3	14.0	0.1	280	336	372	78	21	26	3.6
08-07-95	937	7.4	12.5	--	460	423	561	130	34	17	6.4
08-23-95	705	7.3	13.0	0.1	370	288	365	100	30	6.9	3.9
07-17-95	558	7.2	13.5	3.9	210	225	350	59	16	28	7.0
07-17-95	632	7.3	12.0	--	250	252	392	74	15	31	5.0
07-14-95	650	6.8	12.0	3.0	220	242	395	62	16	44	5.2
07-14-95	829	6.9	12.0	0.5	--	--	--	--	--	--	--
07-17-95	633	6.9	13.0	1.8	240	252	377	70	15	31	5.3
07-31-95	741	7.6	13.5	0.2	210	209	432	61	14	65	9.2
08-23-95	948	7.2	13.0	0.1	430	362	527	120	31	27	7.9
08-16-95	1590	7.0	16.5	--	760	391	1150	230	46	70	15
09-06-95	557	7.2	15.0	0.0	190	229	323	59	10	33	5.2
09-06-95	814	7.1	12.5	1.2	330	283	473	98	20	39	8.6
08-07-95	606	7.2	12.5	1.4	280	253	366	81	18	16	3.7
08-07-95	--	--	--	--	--	--	--	--	--	--	--
08-23-95	655	7.5	13.5	0.1	--	--	--	--	--	--	--
LANCASTER COUNTY											
07-26-95	724	7.0	12.5	1.4	340	306	435	100	21	12	3.7
07-11-95	854	7.5	13.0	5.6	360	207	478	110	20	27	3.1
07-11-95	2040	7.3	14.0	0.1	420	286	1060	130	24	230	4.9
07-11-95	--	--	--	--	--	--	--	--	--	--	--
07-12-95	--	--	--	--	320	211	573	100	18	88	4.5
07-18-95	889	7.0	14.5	0.9	380	299	488	110	25	39	4.4
08-22-95	756	7.2	14.0	0.3	330	277	424	93	23	36	3.9
07-18-95	886	7.1	14.0	0.3	350	321	482	94	27	46	4.8
07-12-95	--	--	--	--	250	218	355	79	14	16	2.5
08-22-95	621	7.2	13.0	13.4	250	262	390	77	15	29	4.2
07-12-95	554	7.3	15.0	--	250	249	338	76	15	17	2.7
07-18-95	995	6.8	13.0	6.4	350	328	593	110	19	53	3.8
07-11-95	875	7.5	13.5	0.2	330	319	513	85	29	45	12
07-11-95	--	--	--	--	--	--	--	--	--	--	--
09-28-95	811	7.3	14.0	0	320	250	490	92	21	39	8.0
08-10-95	795	6.9	13.5	6.8	310	242	497	86	22	46	5.0
09-06-95	862	6.8	15.0	3.0	--	--	--	--	--	--	--
09-07-95	706	7.1	13.0	5.7	--	--	--	--	--	--	--
09-06-95	963	6.9	13.5	0.1	440	297	637	130	29	35	5.1
09-07-95	848	6.8	14.0	3.8	--	--	--	--	--	--	--
08-24-95	901	7.1	12.5	6.4	320	347	555	100	17	62	4.5
08-24-95	817	7.2	12.5	7.2	220	284	471	65	15	82	5.7
08-24-95	762	7.0	12.5	3.4	300	284	464	89	19	43	4.8
09-07-95	2570	7.2	13.0	0.1	--	--	--	--	--	--	--
08-03-95	679	6.8	18.0	5.5	250	140	331	74	17	35	4.0
08-03-95	1050	7.1	--	--	210	194	640	59	14	120	6.0
07-14-95	740	7.1	12.0	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

311

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (μ G/L AS MN) (01056)	RADON 222 TOTAL (PCI/L) (82303)	ALA- CHLOR, WATER, DISS, REC, (μ G/L) (46342)	AMETRYN WATER, DISS, REC, (μ G/L) (38401)
BUTLER COUNTY											
07-27-95	97	5.5	0.40	47	1.50	1.50	<3	240	220	--	--
07-24-95	37	3.8	0.30	50	0.050	0.050	230	450	380	--	--
CASS COUNTY											
08-23-95	61	22	0.50	20	0.140	0.140	13	100	2300	--	--
08-16-95	7.4	5.8	0.30	24	0.140	0.140	2700	730	220	<0.050	<0.050
08-07-95	73	6.8	0.30	28	0.290	0.290	9600	660	210	--	--
08-23-95	23	1.2	0.40	17	2.20	2.20	4	350	200	--	--
07-17-95	26	12	0.40	45	5.00	5.00	8	3	330	<0.050	<0.050
07-17-95	15	2.9	0.30	36	14.0	14.0	<3	19	--	--	--
07-14-95	66	6.0	0.30	31	4.30	4.30	11	23	450	<0.050	<0.050
07-14-95	--	--	--	--	--	<0.050	--	--	--	<0.050	<0.050
07-17-95	49	11	0.30	33	2.60	2.60	<3	7	520	--	--
07-31-95	74	53	0.40	27	0.120	0.120	140	2400	340	<0.050	<0.050
08-23-95	67	15	0.40	28	--	<0.050	12000	1800	210	--	--
08-16-95	490	23	0.20	35	0.960	0.960	5300	1300	310	<0.050	<0.050
09-06-95	6.9	32	0.30	32	0.180	0.180	3300	3300	350	--	--
09-06-95	65	34	0.30	34	1.00	1.00	<3	280	390	<0.050	<0.050
08-07-95	35	7.1	0.20	31	5.00	5.00	<3	230	270	--	--
08-07-95	--	--	--	--	5.00	5.00	--	--	--	--	--
08-23-95	--	--	--	--	--	<0.050	--	--	--	<0.050	<0.050
LANCASTER COUNTY											
07-26-95	59	3.6	0.40	33	4.30	4.30	11	4	440	<0.050	<0.050
07-11-95	37	55	0.30	31	16.0	16.0	8	72	--	--	--
07-11-95	100	370	0.30	29	--	<0.050	1000	630	--	--	--
07-11-95	--	--	--	--	--	--	--	--	410	--	--
07-12-95	63	140	0.30	31	0.070	0.070	550	390	430	--	--
07-18-95	78	21	0.50	30	0.130	0.130	10	410	750	<0.050	<0.050
08-22-95	49	19	0.40	33	--	<0.050	290	250	490	--	--
07-18-95	75	8.6	0.50	32	0.330	0.330	<3	240	1100	<0.050	<0.050
07-12-95	22	6.4	0.30	35	11.0	11.0	<3	13	1100	--	--
08-22-95	27	6.6	0.30	37	8.20	8.20	<3	140	610	--	--
07-12-95	28	3.2	0.30	33	3.00	3.00	54	130	--	--	--
07-18-95	49	31	0.30	33	22.0	22.0	<3	<1	--	<0.050	<0.050
07-11-95	74	13	0.80	62	--	<0.050	630	690	--	--	--
07-11-95	--	--	--	--	--	--	--	--	370	--	--
09-28-95	120	31	0.20	28	--	<0.050	890	230	300	--	--
08-10-95	130	25	0.30	28	2.20	2.20	11	16	430	<0.050	<0.050
09-06-95	--	--	--	--	0.170	0.170	--	--	--	--	--
09-07-95	--	--	--	--	1.60	1.60	--	--	--	<0.050	<0.050
09-06-95	220	8.6	0.40	30	0.060	0.060	<3	110	720	--	--
09-07-95	--	--	--	--	2.90	2.90	--	--	--	--	--
08-24-95	55	18	0.30	33	13.0	13.0	<3	2	690	<0.050	<0.050
08-24-95	53	53	0.50	26	0.050	0.050	510	110	310	--	--
08-24-95	76	20	0.40	30	2.50	2.50	8	18	360	--	--
09-07-95	--	--	--	--	--	<0.050	--	--	--	--	--
08-03-95	71	14	0.30	25	1.60	1.60	3	5	170	--	--
08-03-95	80	150	0.40	37	13.0	13.0	4	2	270	--	--
07-14-95	--	--	--	--	6.80	6.80	--	--	--	<0.050	<0.050

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

DATE	ATRA- ZINE, WATER, DISS, REC (µ G/L) (39632)	CYANA- ZINE, WATER, DISS, REC (µ G/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µ G/L) (04040)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (µ G/L) (04038)	METO- LACHLOR WATER DISSOLV (µ G/L) (39415)	METRI- BUZIN WATER DISSOLV (µ G/L) (82630)	PRO- METON, WATER, DISS, REC (µ G/L) (04037)	PRO- METRYN, WATER, DISS, REC (µ G/L) (04036)	PROP- AZINE WATER DISS REC (µ G/L) (38535)	SI- MAZINE, WATER, DISS, REC (µ G/L) (04035)
	BUTLERCOUNTY									
07-27-95	--	--	--	--	--	--	--	--	--	--
07-24-95	--	--	--	--	--	--	--	--	--	--
CASSCOUNTY										
08-23-95	--	--	--	--	--	--	--	--	--	--
08-16-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
08-07-95	--	--	--	--	--	--	--	--	--	--
08-23-95	--	--	--	--	--	--	--	--	--	--
07-17-95	0.080	<0.200	0.060	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
07-17-95	--	--	--	--	--	--	--	--	--	--
07-14-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
07-14-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
07-17-95	--	--	--	--	--	--	--	--	--	--
07-31-95	0.460	<0.200	0.074	<0.050	0.050	<0.050	<0.050	<0.050	<0.050	<0.050
08-23-95	--	--	--	--	--	--	--	--	--	--
08-16-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
09-06-95	--	--	--	--	--	--	--	--	--	--
09-06-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
08-07-95	--	--	--	--	--	--	--	--	--	--
08-07-95	--	--	--	--	--	--	--	--	--	--
08-23-95	0.140	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
LANCASTERCOUNTY										
07-26-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
07-11-95	--	--	--	--	--	--	--	--	--	--
07-11-95	--	--	--	--	--	--	--	--	--	--
07-11-95	--	--	--	--	--	--	--	--	--	--
07-12-95	--	--	--	--	--	--	--	--	--	--
07-18-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
08-22-95	--	--	--	--	--	--	--	--	--	--
07-18-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
07-12-95	--	--	--	--	--	--	--	--	--	--
08-22-95	--	--	--	--	--	--	--	--	--	--
07-12-95	--	--	--	--	--	--	--	--	--	--
07-18-95	0.110	<0.200	0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
07-11-95	--	--	--	--	--	--	--	--	--	--
07-11-95	--	--	--	--	--	--	--	--	--	--
09-28-95	--	--	--	--	--	--	--	--	--	--
08-10-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
09-06-95	--	--	--	--	--	--	--	--	--	--
09-07-95	0.080	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
09-06-95	--	--	--	--	--	--	--	--	--	--
09-07-95	--	--	--	--	--	--	--	--	--	--
08-24-95	<0.050	<0.200	0.067	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
08-24-95	--	--	--	--	--	--	--	--	--	--
08-24-95	--	--	--	--	--	--	--	--	--	--
09-07-95	--	--	--	--	--	--	--	--	--	--
08-03-95	--	--	--	--	--	--	--	--	--	--
08-03-95	--	--	--	--	--	--	--	--	--	--
07-14-95	<0.050	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

CHEMICAL ANALYSES OF GROUND WATER

313

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL TOTAL (FEET) (72008)
LANCASTER COUNTY							
405640096292301	11N 8E 2DCCA 1	40 56 40 N	096 29 23 W	112SDGV	07-17-95	1520	88.00
				112SDGV	07-17-95	1520	88.00
				112SDGV	07-17-95	1520	88.00
405631096302301	11N 8E10ABAD 1	40 56 31 N	096 30 23 W	112SDGV	07-13-95	1430	65.00
405546096292501	11N 8E11DCCD 1	40 55 46 N	096 29 25 W	112SDGV	07-13-95	1015	96.00
405522096302001	11N 8E15ADCC 1	40 55 22 N	096 30 20 W	112SDGV	07-13-95	1130	--
405454096322501	11N 8E16CDCD 1	40 54 54 N	096 32 25 W	112SDGV	07-14-95	0947	59.00
405417096330101	11N 8E20CADD 1	40 54 17 N	096 33 01 W	112SDGV	08-16-95	1310	95.00
405413096323401	11N 8E20DDAA 1	40 54 13 N	096 32 34 W	112SDGV	07-17-95	1000	65.00
405326096322501	11N 8E29DABB 1	40 53 26 N	096 32 25 W	112SDGV	07-14-95	1050	172.00
405228096331301	11N 8E32C 1	40 52 28 N	096 33 13 W	211DKOT	07-13-95	1326	153.00
				211DKOT	07-13-95	1335	153.00
410239096492501	12N 5E 2ABBC 1	41 02 39 N	096 49 25 W	112SDGV	08-14-95	1436	91.00
410031096393801	12N 7E17CBB 1	41 00 31 N	096 39 38 W	211DKOT	08-15-95	0923	195.00
SARPY COUNTY							
410337095594001	13N 13E30DCCC 1	41 03 37 N	095 59 40 W	112SDGV	07-31-95	1040	46.00
410337095583001	13N 13E32ABBB 1	41 03 37 N	095 58 30 W	112SDGV	07-31-95	0952	54.00
SAUNDERS COUNTY							
410613096504901	13N 5E15BBAB 1	41 06 13 N	096 50 49 W	112SDGV	07-25-95	1250	76.00
410613096510201	13N 5E 15BBB 1	41 06 13 N	096 51 02 W	110SDGV	07-25-95	1057	83.00
410536096501101	13N 5E15DBDD 1	41 05 36 N	096 50 11 W	112SDGV	07-24-95	1440	191.00
410516096500201	13N 5E22AACA 1	41 05 14 N	096 50 04 W	112SDGV	07-24-95	1538	160.00
410513096500101	13N 5E22AADB 1	41 05 13 N	096 50 01 W	112SDGV	07-25-95	1158	--
410429096501301	13N 5E 27AAB 1	41 04 29 N	096 50 13 W	112SDGV	07-25-95	0932	120.00
410534096425301	13N 6E14CCBA 1	41 05 34 N	096 42 53 W	112SDGV	07-27-95	1510	--
410509096453401	13N 6E20ABDD 1	41 05 09 N	096 45 34 W	112SDGV	08-15-95	1335	235.00
410521096423801	13N 6E23BABB 1	41 05 21 N	096 42 38 W	112SDGV	07-27-95	1415	115.00
410801096523701	14N 5E32DCCD 1	41 08 01 N	096 52 37 W	--	08-15-95	1212	80.00
SEWARD COUNTY							
414629096594301	9N 4E 5DBCD 1	41 46 29 N	096 59 43 W	211DKOT	08-21-95	1456	395.00
404612096595201	9N 4E 8BAD 1	40 46 12 N	096 59 52 W	211DKOT	08-21-95	1332	395.00

CHEMICAL ANALYSES OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

DATE	SPECIFIC CONDUCTANCE (µ S/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (°C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	ALKALINITY LAB (MG/L AS CaCO ₃) (90410)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)
LANCASTER COUNTY											
07-17-95	934	7.1	12.0	6.6	--	--	--	--	--	--	--
07-17-95	934	7.1	12.0	6.6	--	--	--	--	--	--	--
07-17-95	934	7.1	12.0	6.6	360	282	570	110	21	49	4.1
07-13-95	1100	7.0	12.5	--	--	--	--	--	--	--	--
07-13-95	886	7.0	12.0	6.0	330	298	539	96	23	57	4.9
07-13-95	1220	7.0	12.0	6.0	--	--	--	--	--	--	--
07-14-95	744	6.9	13.5	1.0	290	263	435	86	19	40	5.3
08-16-95	823	7.2	12.5	5.2	320	314	513	90	22	60	4.1
07-17-95	767	6.9	13.0	4.4	--	--	--	--	--	--	--
07-14-95	605	7.1	12.5	7.2	220	263	347	62	15	38	3.4
07-13-95	814	7.0	13.0	8.0	290	300	501	84	20	52	4.2
07-13-95	814	7.0	13.0	8.0	300	300	424	86	21	52	4.3
08-14-95	754	7.5	14.5	--	360	303	446	110	21	14	8.8
08-15-95	525	6.9	12.0	9.9	180	207	346	51	13	43	3.5
SARPY COUNTY											
07-31-95	593	7.4	12.5	1.1	210	195	355	62	14	36	9.0
07-31-95	619	7.1	12.0	0.6	260	203	382	79	15	25	6.4
SAUNDERS COUNTY											
07-25-95	700	7.0	13.5	4.4	310	271	439	92	20	13	5.2
07-25-95	510	7.3	12.0	--	320	315	411	94	21	16	7.0
07-24-95	781	7.3	13.0	0.3	350	282	432	100	25	15	9.0
07-24-95	885	7.1	12.5	1.7	400	318	518	120	25	13	6.9
07-25-95	801	7.2	13.0	2.7	370	304	485	110	23	13	6.0
07-25-95	870	7.1	12.0	0.3	410	368	541	120	27	23	7.7
07-27-95	--	--	--	--	290	261	373	89	16	18	4.6
08-15-95	632	7.1	13.0	3.1	290	271	412	88	18	19	5.4
07-27-95	605	7.5	12.5	300	--	--	--	--	--	--	--
08-15-95	737	7.4	15.5	--	370	295	445	110	22	18	4.8
SEWARD COUNTY											
08-21-95	689	6.5	15.0	0.1	140	284	415	42	9.7	95	5.2
08-21-95	689	6.5	15.0	0.1	120	272	385	34	7.8	96	5.1

CHEMICAL ANALYSES OF GROUND WATER

315

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	IRON, DIS- SOLVED (μ G/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (μ G/L AS MN) (01056)	RADON 222 TOTAL (PCI/L) (82303)	ALA- CHLOR, WATER, DISS, REC, (μ G/L) (46342)	AMETRYN WATER, DISS, RBC, (μ G/L) (38401)
LANCASTER COUNTY											
07-17-95	--	--	--	--	--	--	--	--	--	--	--
07-17-95	--	--	--	--	--	--	--	--	--	--	--
07-17-95	160	22	0.20	32	--	<0.050	2000	1000	700	<0.050	<0.050
07-13-95	--	--	--	--	0.050	0.050	--	--	--	--	--
07-13-95	79	6.4	0.30	27	15.0	15.0	<3	<1	410	<0.050	<0.050
07-13-95	--	--	--	--	19.0	19.0	--	--	--	--	--
07-14-95	70	13	0.40	30	3.10	3.10	<3	27	310	<0.050	<0.050
08-16-95	100	9.6	0.30	25	3.00	3.00	8	<1	360	<0.050	<0.050
07-17-95	--	--	--	--	2.40	2.40	--	--	--	<0.050	<0.050
07-14-95	26	6.5	0.40	26	2.60	2.60	<3	<1	440	--	--
07-13-95	39	10	0.30	32	18.0	18.0	<3	<1	450	<0.050	<0.050
07-13-95	39	10	0.30	32	--	--	<3	<1	--	--	--
08-14-95	60	7.6	0.30	35	1.60	1.60	5	570	1600	<0.050	<0.050
08-15-95	21	3.4	0.30	38	11.0	11.0	5	<1	450	<0.050	<0.050
SARPY COUNTY											
07-31-95	62	22	0.30	26	1.50	1.50	<3	44	420	<0.050	<0.050
07-31-95	80	19	0.30	30	0.900	0.900	320	780	260	--	--
SAUNDERS COUNTY											
07-25-95	40	3.0	0.40	45	13.0	13.0	<3	<1	490	--	--
07-25-95	44	3.5	0.30	35	0.190	0.190	68	850	620	--	--
07-24-95	69	6.5	0.30	35	0.650	0.650	170	380	260	--	--
07-24-95	81	13	0.20	37	7.10	7.10	23	40	290	--	--
07-25-95	68	8.7	0.30	42	7.10	7.10	7	<1	200	--	--
07-25-95	96	6.5	0.30	38	0.280	0.280	300	720	190	--	--
07-27-95	39	2.3	0.30	44	0.840	0.840	10	<1	--	--	--
08-15-95	66	2.5	0.20	46	1.10	1.10	<3	21	240	<0.050	<0.050
07-27-95	--	--	--	--	2.20	2.20	--	--	--	--	--
08-15-95	46	6.9	0.30	39	4.80	4.80	11	20	320	<0.050	<0.050
SEWARD COUNTY											
08-21-95	53	15	0.60	19	1.20	1.20	100	95	340	--	--
08-21-95	46	14	0.60	18	0.080	0.080	330	49	380	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Lower Platte South Ground-water Reconnaissance--Continued

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Access to WATSTORE Data	29
Algae, definition of	30
Aquifer, definition of	30
Arikaree River at Haigler	164
Artesian, definition of	30
Artificial substrate, definition of	36
Ash mass, definition of	30
Bacteria, definition of	30
Bazile Creek near Niobrara	56
Bazile Creek basin, gaging-station records in	56
Beaver Creek (tributary to Loup River), at Genoa	116
Beaver Creek (tributary to Sappa Creek), at Cedar Bluffs, KS	178-179
Bed material, definition of	30
Big Blue River, at Barneston	189
near Crete	188
West Fork, near Dorchester	187
Big Nemaha River, at Falls City	163
North Fork, at Humboldt	162
Big Nemaha River basin, gaging-station records in	160-163
Biochemical oxygen demand, definition of	30
Biomass, definition of	30
Blue-green algae, definition of	34
Bottom material, definition of	31
Box Butte Reservoir near Hemingford	44
Buffalo Creek near Haigler	166
Calamus Reservoir, near Burwell	104
Calamus River, near Burwell	105
near Harrop	103
Cedar River, near Fullerton	111-113
Chemical oxygen demand, definition of	31
Chlorophyll, definition of	31
Contents, definition of	31
Control, definition of	31
Cooperation	1
Cottonwood Creek above Czechland near Rescue	146
Cottonwood Creek Tributary above Dam 6B near Prague	147
Courtland Canal at Nebraska-Kansas State line	183
Cubic foot per second, definition of	31
Cubic foot per second day, definition of	31
Dane Creek at Ord	193-197
Definition of terms	30-37
Diatoms, definition of	34
Discharge, at partial-record stations and miscellaneous sites	193-194
Discharge, definition of	31
Discontinued, surface-water gaging stations	xiii-xix
surface-water crest-stage stations	xx-xxv
water-quality stations	xxvi-xli
Dismal River, at Dunning	93
near Thedford	89-92
Dissolved, definition of	31
Dissolved solids concentration, definition of	31
Downstream order system	13
Drainage area, definition of	31
Drainage basin, definition of	31

Driftwood Creek near McCook	173
Dry mass, definition of	30
Elkhorn River, at Ewing	120
at Norfolk	121
at Waterloo	128-130
at Westpoint	123
North Fork, near Pierce	122
Enders Reservoir near Enders	170
Explanation of records	13-28
Fecal coliform bacteria, definition of	30
Fecal streptococcal bacteria, definition of	30
Frenchman Creek, at Culbertson	172,201-205
at Palisade	171
Gage height, definition of	32
Gaging station, definition of	32
Green algae, definition of	34
Ground-water, chemical analyses of	268-316
Ground-water records, by counties	
Adams	239,297-298
Blaine	239
Boone	240
Box Butte	240
Brown	241
Buffalo	241-242
Burt	268-270
Butler	242,297-298,309-312
Cass	309-312
Chase	243
Cherry	244
Clay	297-298
Colfax	244
Dakota	268-270
Dawes	245
Dawson	245
Douglas	268-270
Dundy	246
Fillmore	246-247,297-300
Gage	305-306
Garfield	247
Gosper	248
Hall	248
Hamilton	249,300-301
Harlan	250
Hitchcock	273-284
Holt	250-251
Johnson	305-306
Kearney	252
Kimball	253
Lancaster	253-254,305-306,309-316
Morrill	255
Nemaha	305-308
Nuckolls	256
Otoe	256
Pawnee	307-308
Phelps	256
Platte	256
Polk	300-301
Red Willow	281-296

Ground-water records, by counties--continued

- Richardson 307-308
- Saline 257,300-301
- Sarpy 257,268-270,313-316
- Saunders 258-263,313-316
- Scotts Bluff 263
- Seward 264,301-302,313-316
- Sheridan 264
- Thomas 265
- Thurston 271-272
- Valley 265
- Washington 271-272
- Webster 266
- York 266-267,301-304

- Haines Branch at SW 56th St. at Lincoln 135
- Hardness of water, definition of 32
- Holmes Lake Inflow 206-211
- Hydrologic bench-mark network, definition of 12,32
- Hydrologic unit, definition of 32

- Indian Creek at Beatrice 194
- Instantaneous discharge, definition of 31
- Introduction 1

- Johnson Creek near Memphis 150

- Kansas River basin, discharge measurements at
 - miscellaneous sites in 194-195
 - gaging-station records in 164-192
- Keya Paha River, at Wewela, SD 52

- Lake McConaughy near Keystone 68
- Lakes and reservoirs:
 - Box Butte Reservoir near Hemingford 44
 - Enders Reservoir near Enders 170
 - Lewis and Clark Lake near Yankton, SD 57
 - McConaughy, Lake, near Keystone 68
 - Merritt Reservoir near Burge 45
 - Sherman Reservoir near Loup City 98
- Land-surface datum, definition of 32
- Latitude-longitude system 14
- Lewis and Clark Lake near Yankton, SD 57
- Lincoln Storm Runoff 198-200
- Little Blue River, at Hollenberg, KS 192
 - near Deweese 190
 - near Fairbury 191
- Little Nemaha River at Auburn 157
- Little Nemaha River basin, gaging-station
 - records in 157
- Little Salt Creek near Lincoln 138
- Logan Creek near Uehling 124
- Long Pine Creek near Riverview 49-51
- Loup River, near Genoa 115
 - near Palmer 109-110,193
 - Power Canal near Genoa 114
- Low flow investigations,
 - Kansas River basin 195
 - Salt Creek basin 196
- Lower Platte South Reconnaissance 309-316

- Maple Creek near Nickerson 125-127
- Mean concentration, definition of 35
- Mean discharge, definition of 31
- Measuring point, definition of 32
- Merritt Reservoir near Burge 45
- Methylene blue active substance, definition of 32
- Micrograms per gram, definition of 32
- Micrograms per liter, definition of 32
- Middle Creek at SW 40th S. at Lincoln 136
- Middle Loup River, at Dunning 88
 - at St. Paul 99-101
- Milligrams per liter, definition of 32
- Missouri River, at Decatur 63
 - at Nebraska City 155-156
 - at Omaha 64-65
 - at Rulo 158-159
 - at Sioux City, IA 60-61
 - at Yankton, SD 58-59

- National Geodetic Vertical Datum of 1929 32
- National stream-quality accounting network 12,32
- National water-quality assessment program 12,33
- Natural substrate, definition of 36
- Nemaha Basin Reconnaissance 305-308
- Niobrara River, near Sparks 46-48
 - near Spencer 53-54
 - near Verdel 55
- Niobrara River basin, discharge measurements
 - gaging-station records in 44-55
 - water-quality records in 47-51
- North Loup River, at Taylor 102
 - near St. Paul 106-108
- North Platte Basin Ground-water/Surface-water
 - Interaction study 212-217
- North Platte River Basin Irrigation study 218-226

- Omaha Creek at Homer 62
- Omaha Creek basin, gaging-station records in 62
- Organic mass, definition of 30
- Organism, definition of 33
- Organism count/area, definition of 33
- Organism count/volume, definition of 33

- Papio-Missouri 268-272
- Parameter code, definition of 33
- Partial-record stations, analyses of samples 197
 - discharge measurements at 193-194
 - definition of 33
- Particle size, definition of 33
- Particle-size classification, definition of 33
- Percent composition 33
- Periphyton, definition of 33
- Pesticides, definition of 33
- Phytoplankton, definition of 34
- Picocurie, definition of 34
- Plankton, definition of 34
- Platte River, near Ashland 131-132
 - near Leshara 119
 - at Louisville 151-153
 - at North Bend 118
 - near Duncan 87

- Platte River, near Grand Island ----- 80-83
 near Kearney ----- 79
- Platte River basin,
 discharge measurements at miscellaneous sites in ----- 193,196
 gaging-station records in ----- 66-151
 water-quality records in ----- 67-153
- Ponca Creek, at Verdel ----- 43
- Ponca Creek basin, gaging-station records in ----- 43
- Prairie Dog Creek near Woodruff, KS ----- 181
- Prairie Creek near Ovina ----- 85
- Publications on Techniques of Water Resources
 Investigations ----- 38-41
- Radiochemical program, definition of ----- 12,34
- Records, explanation of ----- 13-28
- Ground-water levels ----- 25-27
 data collection and computation ----- 25-27
 data presentation ----- 27
- Ground-water quality ----- 27-28
 data collection and computation ----- 28
 data presentation ----- 28
- Stage and water discharge ----- 14-21
 accuracy ----- 20-21
 data collection and computation ----- 15-17
 data presentation ----- 17-20
 identifying estimated discharge ----- 20
 other records available ----- 21
- Surface-water quality ----- 21-27
 arrangement of records ----- 23
 classification of records ----- 21
 data presentation ----- 24-25
 laboratory measurements ----- 24
 on-site measurements and sample collection ----- 23
 sediment ----- 24
 water temperature ----- 24
- Recoverable from bottom material,
 definition of ----- 34
- Red Willow Creek (Kansas River basin),
 near Red Willow ----- 175
- Remark codes, water-quality ----- 42
- Republican River, at Bartley ----- 201-205
- at Cambridge ----- 176
 at Guide Rock ----- 184
 at McCook ----- 174,201-205
 at Stratton ----- 169,201-205
 below Harlan County Dam ----- 182
 near Hardy ----- 185-186
 near Orleans ----- 177
 North Fork, at Colorado-Nebraska State line ----- 165
 South Fork, near Benkelman ----- 168
- Reservoirs. See Lakes and reservoirs
- Return period, definition of ----- 34
- Rock Creek (Kansas River basin) at Parks ----- 167
- Rock Creek (Platte River basin) near Ceresco ----- 144
- Runoff in inches, definition of ----- 34
- Salt Creek, at Greenwood ----- 145
 at Lincoln ----- 137
 at Pioneers Boulevard at Lincoln ----- 134
 at Roca ----- 133
 at 70th St. at Lincoln ----- 139
- below Stevens Creek, near Waverly ----- 141-143
- Sappa Creek near Stamford ----- 180
- Sediment, definition of ----- 34
- Seven-day ten-year low flow, definition of ----- 35
- Shell Creek near Columbus ----- 117
- Sherman Reservoir near Loup City ----- 98
- Silver Creek at Ovina ----- 86
- Sodium-adsorption-ratio, definition of ----- 35
- Solute, definition of ----- 35
- South Loup River, at St. Michael ----- 94-97
- South Platte River, at Julesburg, CO ----- 69-70
 at North Platte ----- 72
 at Roscoe ----- 71
- Special Protection Areas (SPA)
 Big Blue River basin ----- 297-304
 Hitchcock-Red Willow Counties ----- 201-205
 Middle Republican ----- 273-296
- Special networks and programs ----- 12-28
- Specific conductance, definition of ----- 35
- Stage-discharge relation, definition of ----- 35
- Station identification numbers ----- 13
 downstream order system ----- 13
 latitude-longitude system ----- 14
- Station records, ground water ----- 239-316
 surface water ----- 43-192
- Stevens Creek near Lincoln ----- 140
- Streamflow, definition of ----- 35
- Streambed Sediment study ----- 227-238
- Substrate, definition of ----- 35
- Summary of Hydrologic Conditions ----- 2-9
 Chemical quality of streamflow ----- 6-7
 Ground-water levels ----- 7-9
 Streamflow ----- 5
- Surface area, definition of ----- 36
- Surficial bed material, definition of ----- 36
- Suspended, definition of ----- 36
- Suspended sediment, definition of ----- 35
- Suspended, total, definition of ----- 36
- Suspended-sediment concentration, definition of ----- 35
- Suspended-sediment discharge, definition of ----- 35
- Suspended-sediment load, definition of ----- 35
- Taxonomy, definition of ----- 36
- Thermograph, definition of ----- 37
- Time-weighted average, definition of ----- 37
- Tons per acre-foot, definition of ----- 37
- Tons per day, definition of ----- 37
- Total, definition of ----- 37
- Total coliform bacteria, definition of ----- 30
- Total discharge, definition of ----- 37
- Total organism count, definition of ----- 33
- Total, recoverable, definition of ----- 37
- Total sediment discharge, definition of ----- 35
- Total sediment load, definition of ----- 35
- Tri-County Canal near North Platte ----- 74-75
- Turkey Creek (Big Nemaha River basin)
 near Seneca, KS ----- 160-161
- Turkey Creek (Kansas River basin), at Naponee ----- 194
- Wahoo Creek, at Ashland ----- 149
 at Ithaca ----- 148

Water use in Nebraska	10-11
Water year, definition of	37
Weeping Water Creek, at Union	189
Weeping Water Creek basin, gaging-station records in	154
Weighted average, definition of	37
Well numbers	14

Wet mass, definition of	31
Wood River near Gibbon	84
WDR, definition of	37
WSP, definition of	37
Zooplankton, definition of	34

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
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
<i>Area</i>		
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
<i>Volume</i>		
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
<i>Flow</i>		
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
<i>Mass</i>		
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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