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Streamflow Records for the Niobrara River at Agate, Nebraska. 1995-2004 Station 06454100

August 2004

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National Park Service - Department of the Interior
Fort Collins - Denver - Washington

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The USGS operated a streamflow gaging station on the Niobrara River just upstream of the Highway 29 bridge from 1957-91 (Station Number 06454100). Data for the period when USGS operated the gaging station are available from <http://nwis.waterdata.usgs.gov/ne/nwis/discharge>. Select the box for "site number" and enter "06454100". This will provide access to the historical data collected by USGS from 1957-91.

National Park Service staff at Agate Fossil Beds National Monument have operated the chart recorder at the site since 1995. The record since 1995 is not continuous because there were many times when the recorder was not functioning properly.

The charts from the recorder for the period from 1995-2004 were analyzed and average daily streamflow values were computed for periods when the chart recorder was operating. Charts were analyzed to determine the average stage of the stream for a particular day. The values for date and stage were entered in an Excel spreadsheet. The stage data were converted to average daily streamflow by applying a regression equation that was developed from the rating curve for the site. The rating curve and regression equation are included in this report. The data were then put in tabular format by water year, similar to the standard USGS format for publishing hydrographic data. These tables and a hydrograph for each year are included in this report.

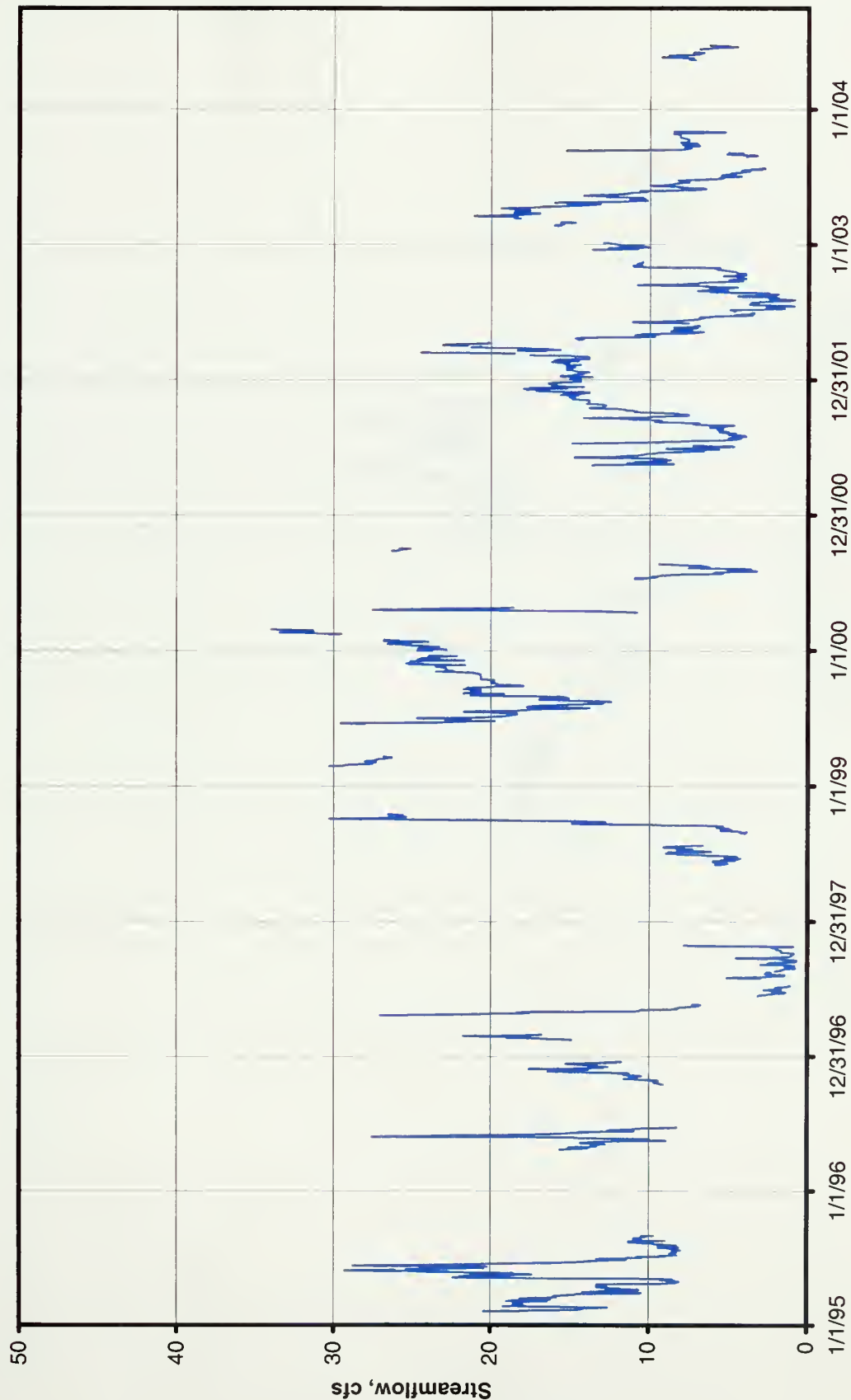
In FY-03, the USGS was contracted to conduct streamflow gaging at this site to evaluate the stage-discharge rating curve for the site. USGS also conducted repair and maintenance of the chart recorder and associated equipment to make certain that it was in good operating condition. Data collected in 2002-03 are shown on a figure in this report along with the rating curve that was used prior to 1991. The data from 2003-03 show that the rating curve is still a fairly reliable tool for converting stage (water level) in the stream to flow rates.

Nebraska DNR is interested in operating a gaging station at this site to assist in their administration of water rights on the Niobrara River. DNR is willing to operate the gaging station and publish the data in their annual "Hydrographer's Report" if NPS would provide funding for the initial purchase of digital recording equipment for the site. The digital recording equipment has been purchased and is in storage at the park. It will be installed after agreements for operation of the gaging station have been negotiated between the NPS, Nebraska DNR, and the landowner.

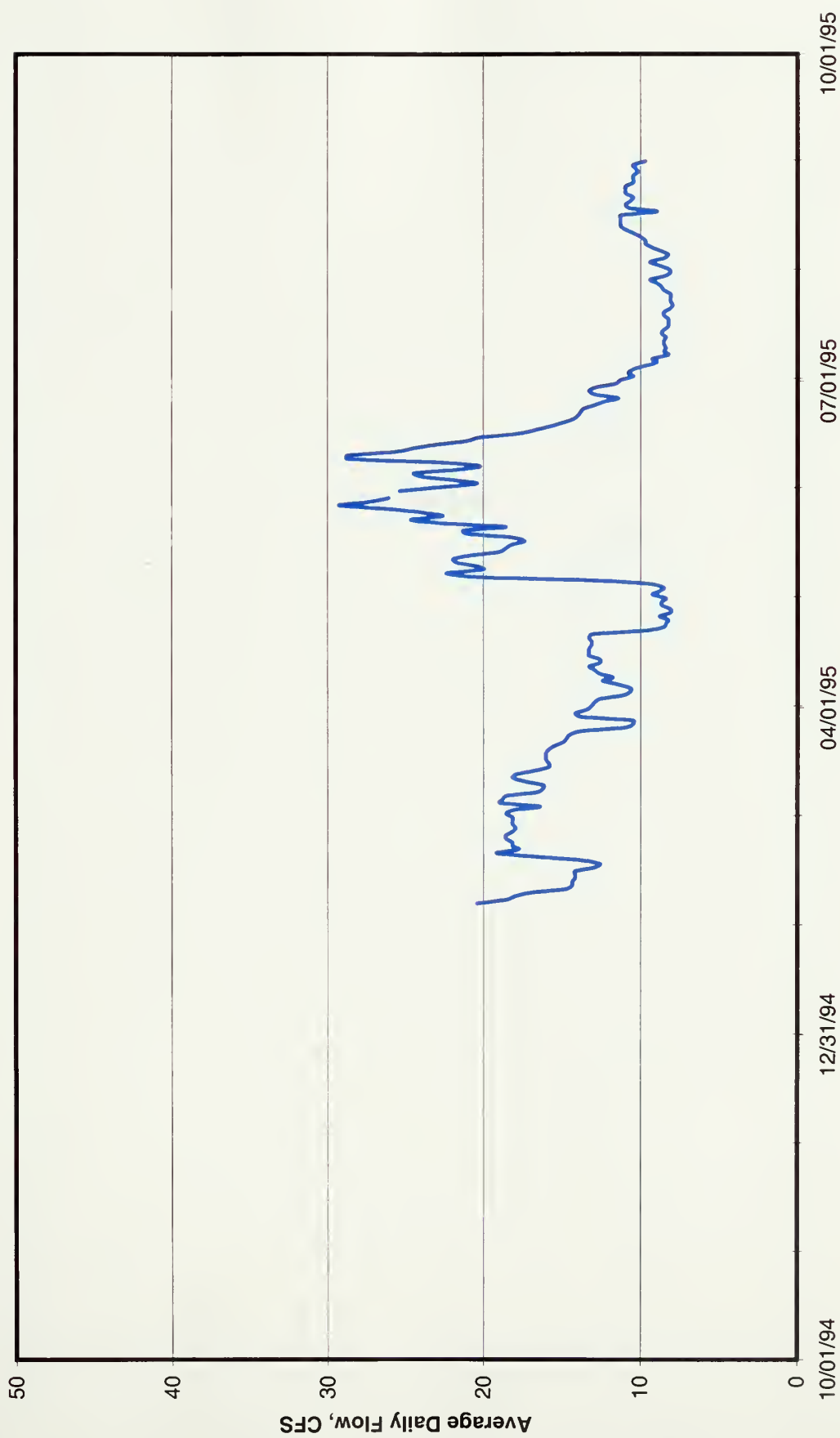
The data analysis and preparation of this report was by Larry Martin, NPS-Water Resources Division, Ft. Collins, CO. Lil Morava at Agate Fossil Beds operated the chart recorder and collected the field data. Dan Hitch, USGS, made the streamflow measurements in 2002-03.

Hydrographs

Niobrara River at Agate, Nebraska
February 1995 to June 2004



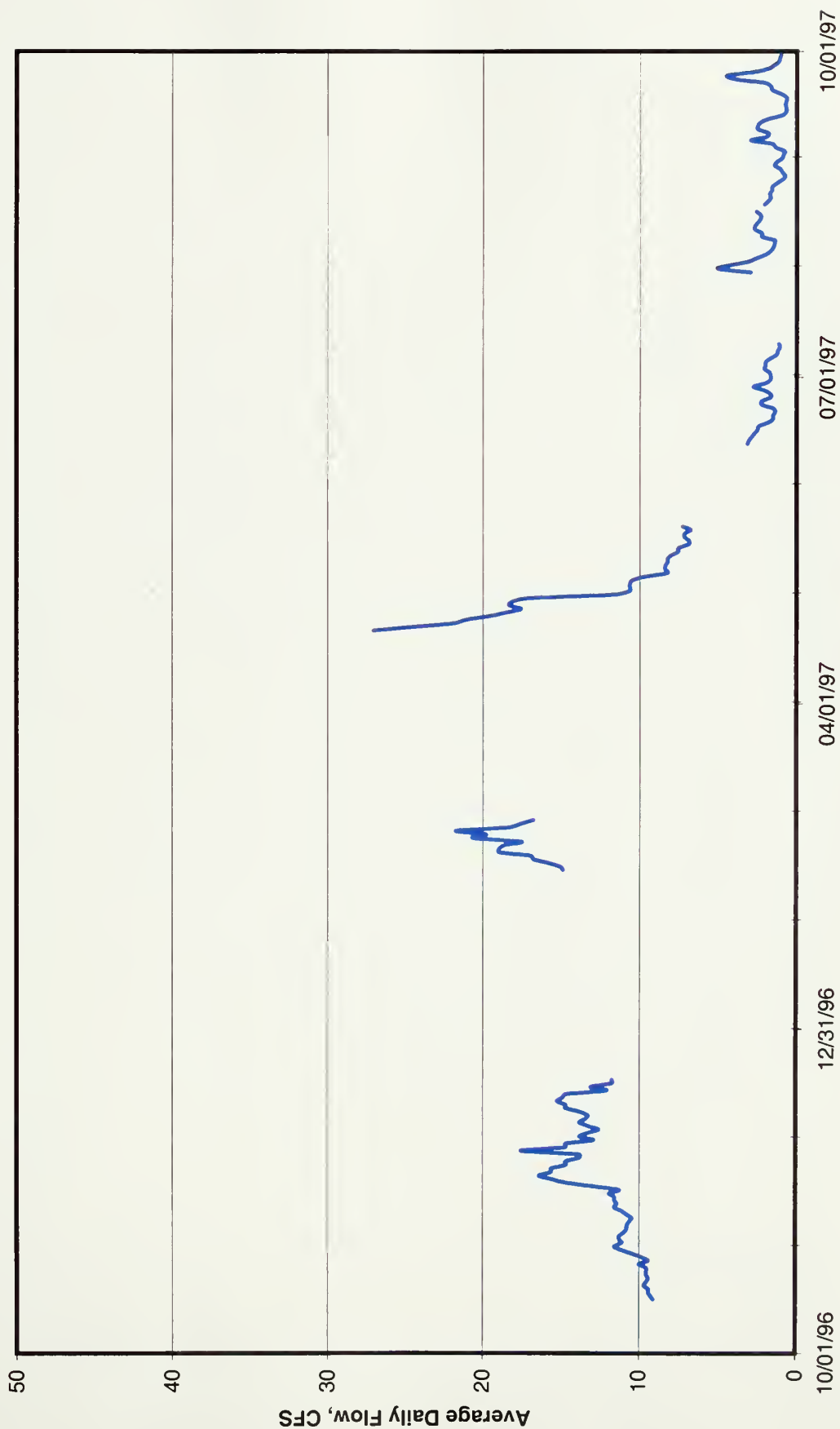
Niobrara River at Agate, Nebraska
October 1994 - September 1995



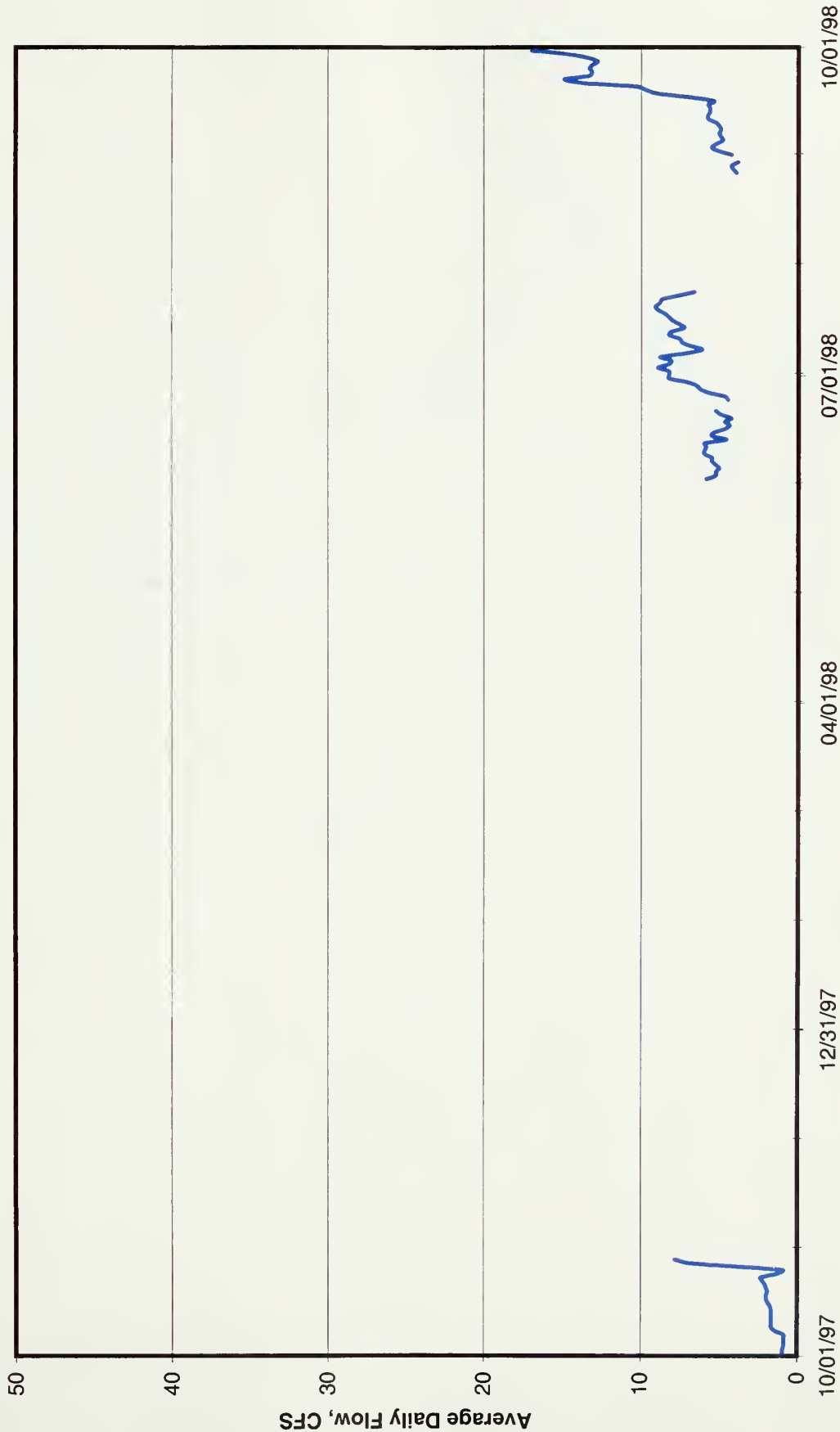
Niobrara River at Agate, Nebraska
October 1995 - September 1996



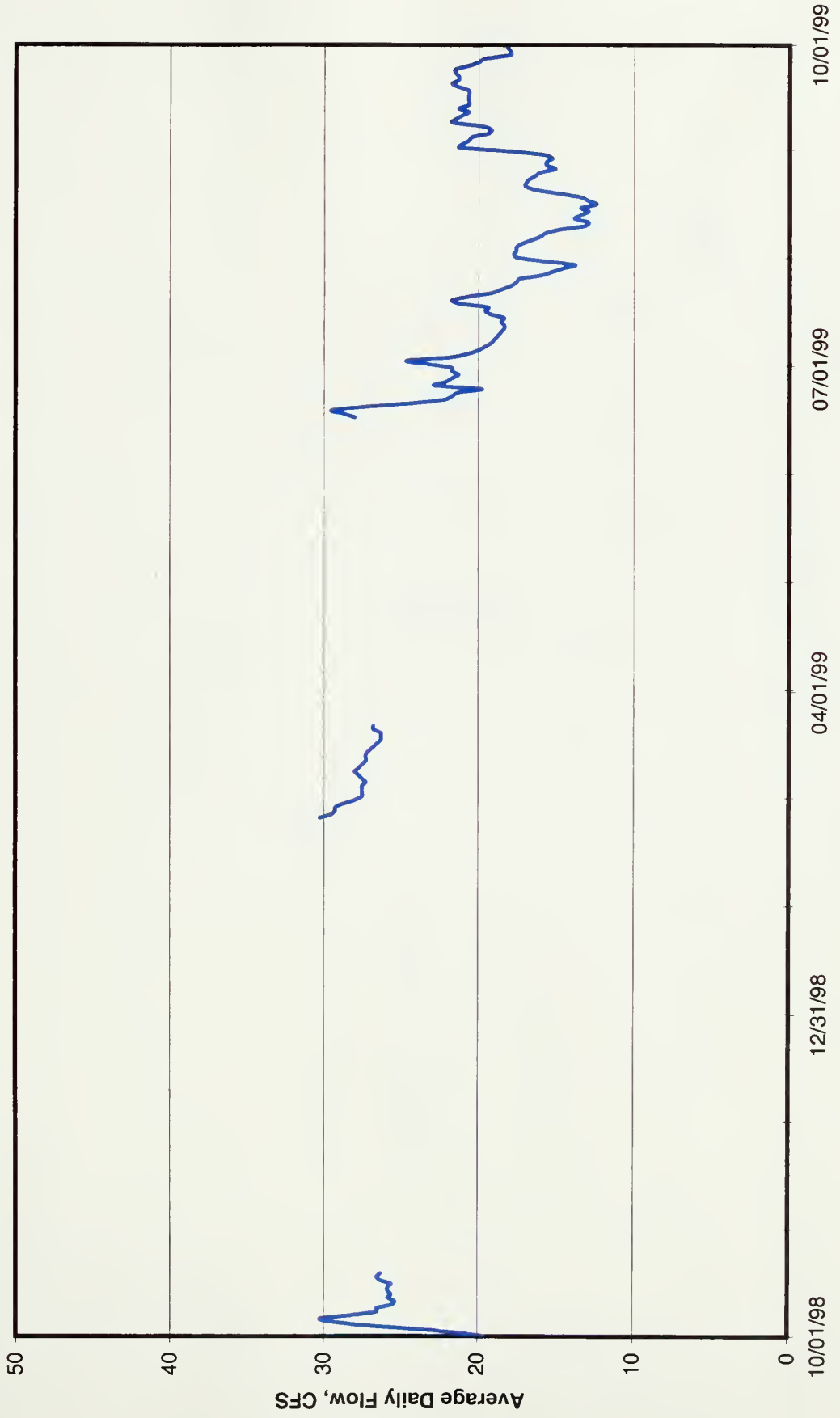
Niobrara River at Agate, Nebraska
October 1996 - September 1997



Niobrara River at Agate, Nebraska
October 1997 - September 1998



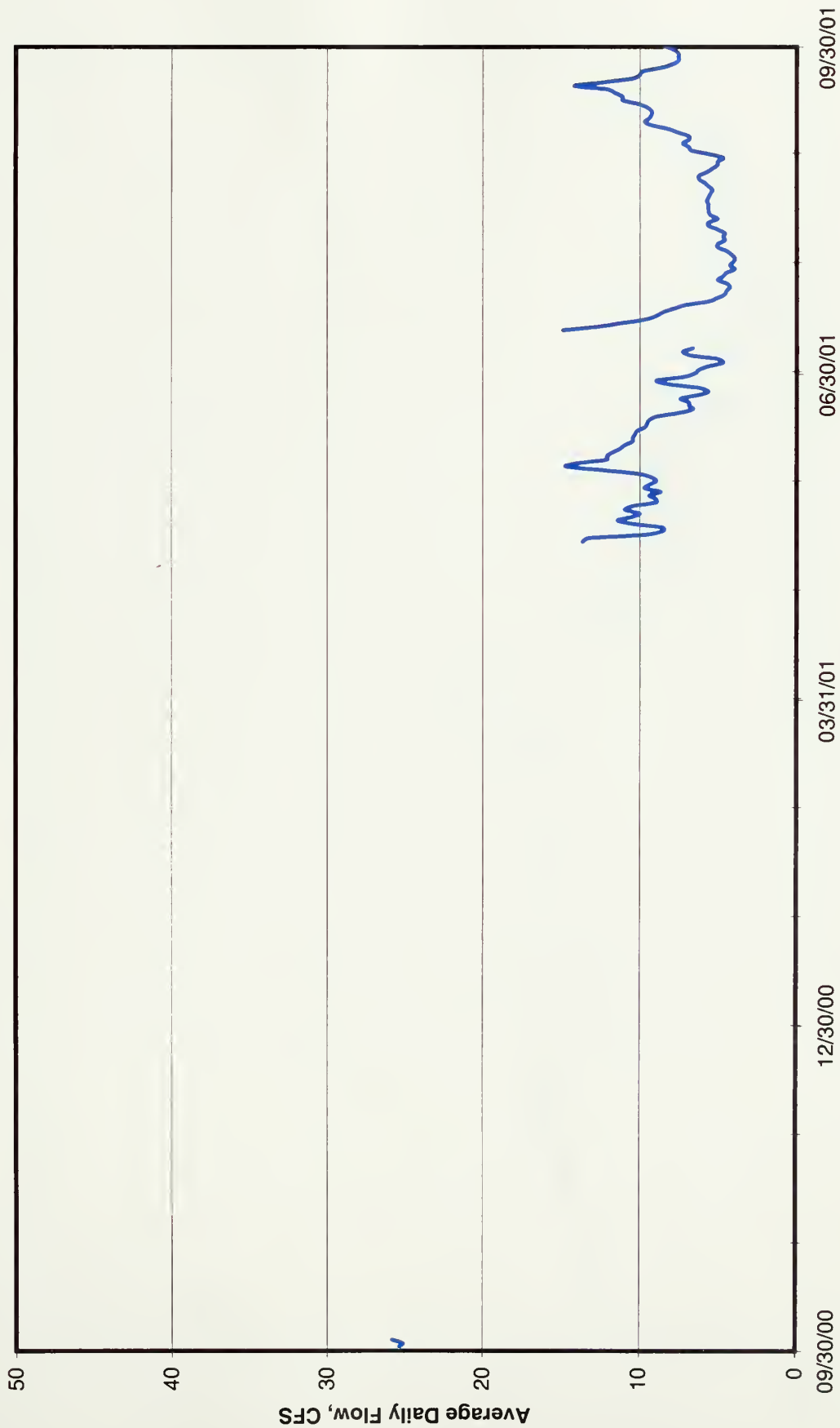
Niobrara River at Agate, Nebraska
October 1998 - September 1999



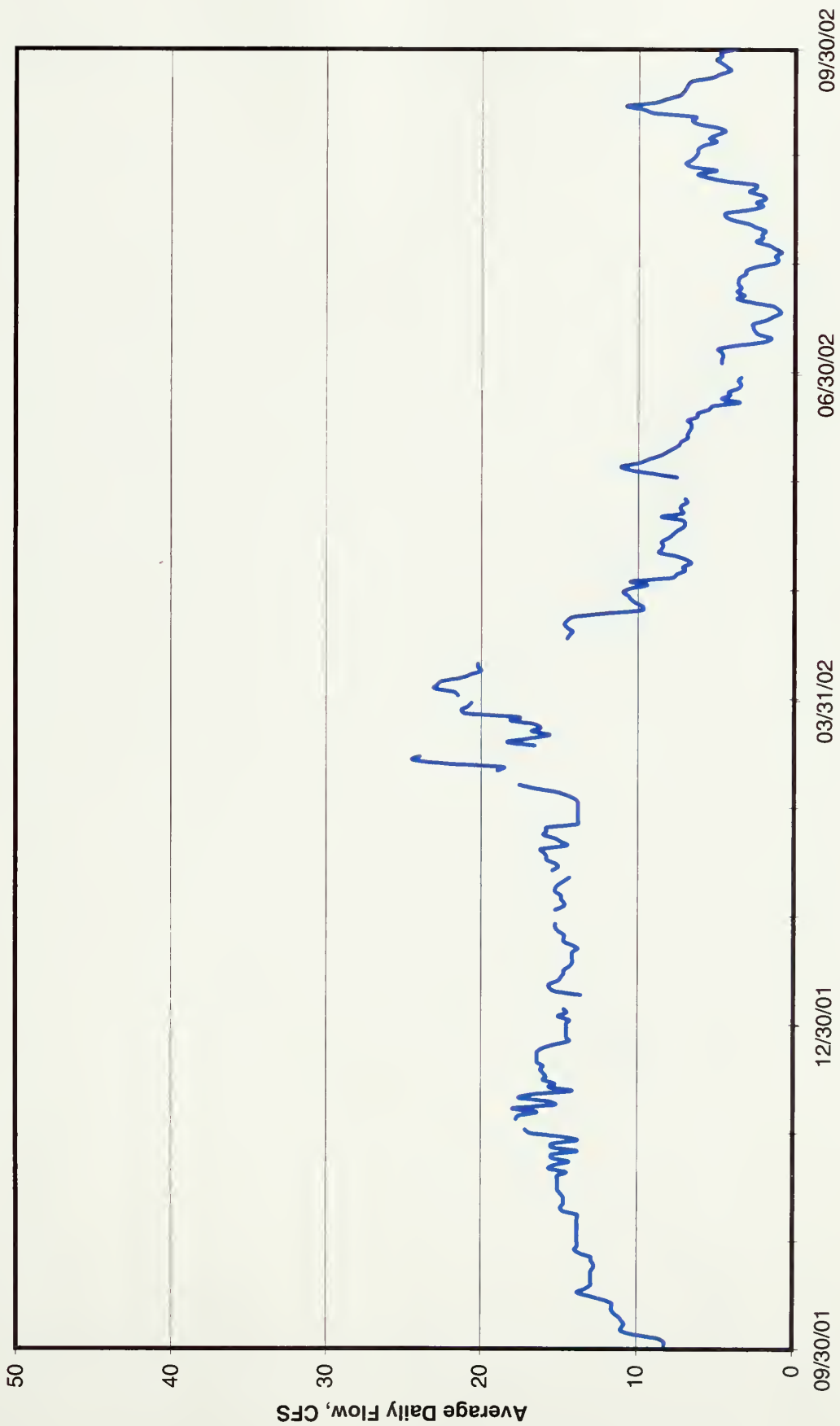
Niobrara River at Agate, Nebraska
October 1999 - September 2000



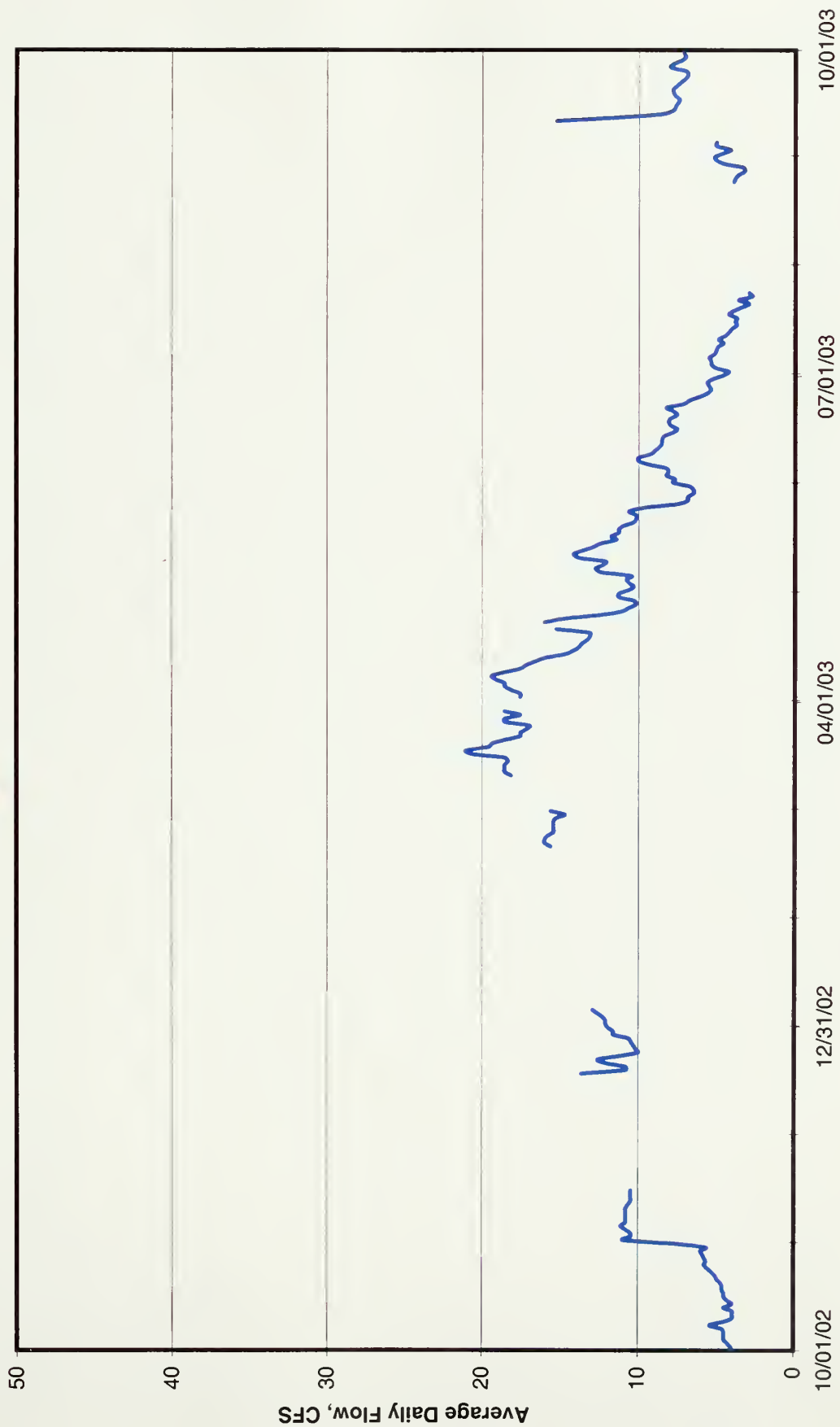
Niobrara River at Agate, Nebraska
October 2000 - September 2001



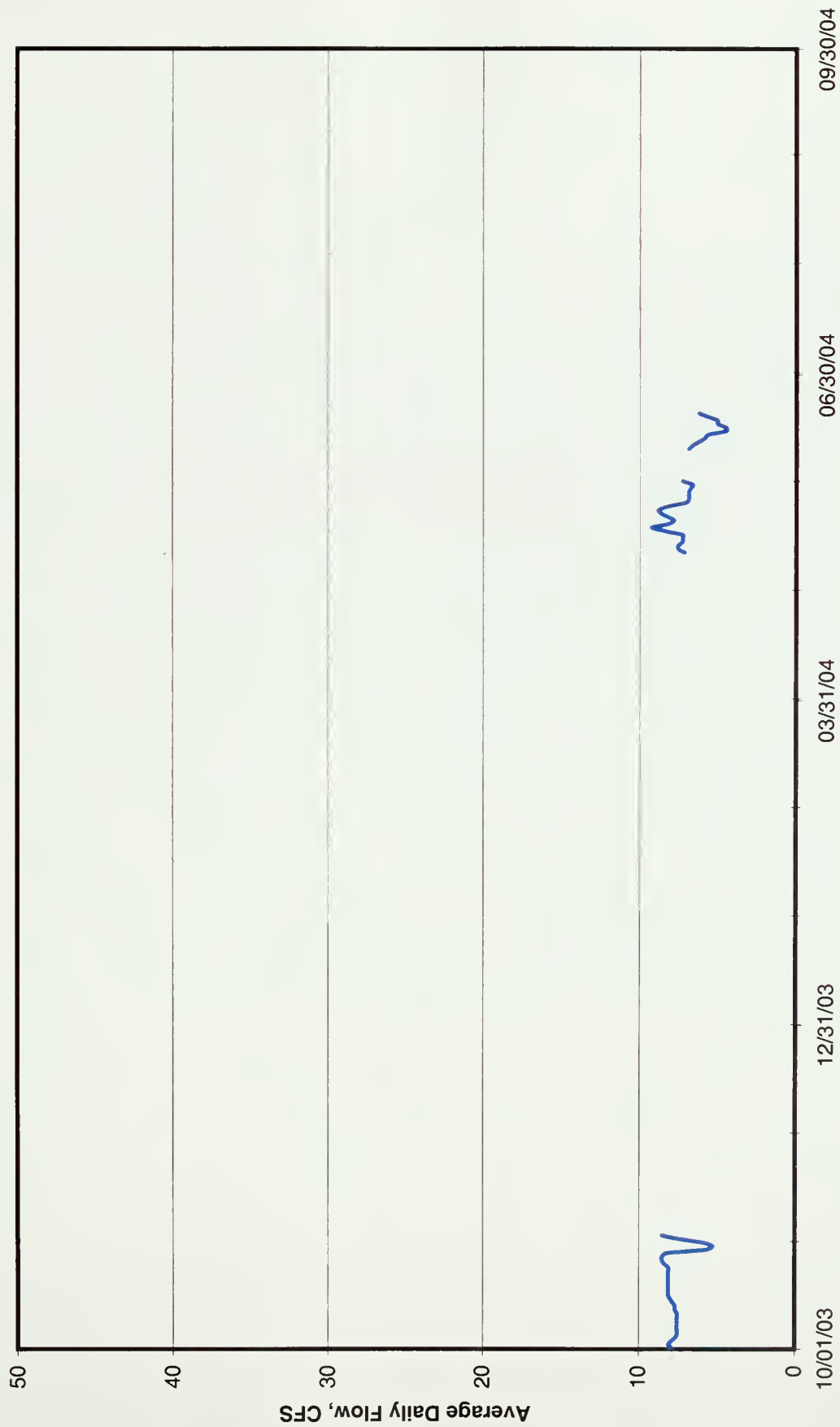
Niobrara River at Agate, Nebraska
October 2001 - September 2002



Niobrara River at Agate, Nebraska
October 2002 - September 2003



Niobrara River at Agate, Nebraska
October 2003 - September 2004



Data Tables

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 1994 through September 1995

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1						18.2	13.4	8.7	25.4	11.6	8.1	9.7
2						18.2	13.1	8.4	22.8	11.3	8.2	
3						18.6	12.9	9.3	20.4	10.5	8.8	
4						18.2	12.6	8.8	21.7	10.8	9.4	
5						16.4	11.1	8.5	24.0	10.5	8.5	
6					20.4	19.0	10.6	9.4	24.4	9.7	8.2	
7					18.6	18.8	10.6	12.8	21.7	9.0	8.7	
8					18.0	18.6	11.4	20.6	20.2	9.3	9.3	
9					17.0	16.6	12.4	22.4	22.8	8.2	9.7	
10					14.7	16.2	11.8	20.0	28.8	8.5	9.7	
11					14.3	16.2	12.6	20.4	28.8	8.4	10.0	
12					14.3	17.4	12.9	21.7	25.6	8.5	10.5	
13					14.2	18.2	13.3	21.9	24.4	8.5	10.9	
14					14.2	18.0	12.6	20.9	23.1	8.4	11.3	
15					14.2	16.8	12.6	19.0	21.1	8.7	11.3	
16					12.9	15.8	13.3	18.6	20.2	8.5	11.3	
17					12.6	15.8	13.3	18.2	18.0	8.2	11.3	
18					13.8	16.0	13.3	17.4	16.8	8.2	9.0	
19					16.6	16.0	13.1	18.2	15.8	8.2	10.8	
20					19.2	16.0	13.1	21.1	15.1	8.5	10.9	
21					17.8	15.8	13.3	21.3	14.3	8.5	10.6	
22					18.2	15.4	13.1	18.6	14.0	8.1	10.5	
23					18.2	14.9	9.7	22.8	13.8	8.0	10.9	
24					18.6	14.7	8.5	24.7	13.6	8.1	10.9	
25					18.6	14.5	8.4	22.6	12.9	8.1	10.9	
26					18.2	13.8	8.2	24.0	12.2	8.1	10.5	
27					18.0	10.9	8.8	26.3	11.4	8.5	10.5	
28					18.2	10.5	8.1	29.3	12.9	8.7	10.5	
29						10.5	8.1	27.3	13.3	9.0	10.2	
30						13.8	8.7	26.1	12.8	9.4	10.3	
31						14.2				8.5	10.5	

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 1995 through September 1996

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1								13.3	19.6			
2								13.3	18.0			
3								13.4	16.8			
4								13.3	15.6			
5								13.6	15.4			
6								12.8	15.1			
7								12.9	14.7			
8								13.1	13.8			
9								14.2	14.3			
10								14.3	11.4			
11								14.0	10.9			
12								13.8	10.9			
13								13.3	12.6			
14								12.8	12.1			
15								11.3	12.4			
16								9.0	11.3			
17								9.3	10.9			
18								11.3	10.8			
19								11.3	10.2			
20								10.5	9.0			
21								10.0	8.2			
22							15.6	11.3				
23							15.1	14.0				
24							14.5	14.7				
25							14.2	14.7				
26							13.8	21.7				
27							14.2	27.5				
28							15.1	24.0				
29							14.2	24.0				
30							13.4	23.1				
31								21.7				

Niobrara River at Agate. Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 1996 through September 1997

Daily Mean Values

[illegible]

Niobrara River at Agate. Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 1997 through September 1998

Daily Mean Values

[illegible]

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 1998 through September 1999

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19.6					28.8				21.7	15.8	18.2
2	21.3					28.0				21.7	17.6	21.3
3	23.7					27.5				23.3	17.8	21.1
4	27.0					27.5				24.7	17.6	20.6
5	29.3					27.5				21.7	17.6	20.4
6	30.3					27.5				20.6	17.2	19.4
7	28.3					27.3				20.0	16.6	19.2
8	26.5					27.5				19.6	16.0	19.8
9	26.5					27.8				19.2	15.6	21.7
10	25.6					28.0				19.0	14.7	21.5
11	25.4					27.8				18.8	13.1	21.1
12	25.8					27.5				18.6	12.9	20.6
13	25.6					27.3				18.4	13.8	21.3
14	25.8					27.3				18.4	13.4	20.6
15	25.8					27.3				18.6	12.9	20.6
16	25.6					27.0				18.4	13.4	20.6
17	26.3					26.8				19.2	12.4	20.6
18	26.5					26.5			28.0	19.6	12.9	20.6
19	26.3					26.3			28.8	19.4	13.4	21.3
20						26.3			29.5	21.3	14.7	21.7
21						26.3			27.3	21.7	16.2	21.3
22						26.8			24.2	20.6	17.0	21.3
23						26.8			22.2	19.2	17.0	21.5
24									21.7	18.6	16.8	21.5
25					30.3				21.3	18.0	16.4	20.6
26					29.5				19.8	17.6	16.0	20.0
27					29.3				22.8	17.4	15.1	19.6
28					29.3				22.2	16.0	15.6	18.0
29									21.7	15.3	15.6	18.0
30									21.3	14.5	15.3	18.2
31										13.8	15.8	

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 1999 through September 2000

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	18.4	20.9		24.7							3.4	
2	19.6	21.1		24.4							3.3	
3	19.6	21.1	25.1	24.0							3.5	
4	19.6	21.5	25.1	23.5							5.0	
5	19.6	22.6	24.0	22.8							4.5	
6	19.8	23.5	21.7	23.7							4.2	
7	20.0	22.6	22.6	24.7							4.0	
8	19.8	22.4	24.0								3.6	
9	19.8	22.6	24.7	23.5							4.5	
10	20.0	22.8	24.4	24.0							7.6	
11	19.8	22.8	24.0	23.5							7.3	
12	20.0	22.8	23.3	23.3						10.9	6.8	
13	20.0	22.8	24.4	24.4			10.8			10.6	6.2	
14	20.0	22.8	23.7	24.0	30.3		11.6			10.2	6.4	
15	19.8	22.8	24.0	24.7	29.5		12.4			10.9	6.4	
16	20.4	23.1	24.0	25.6	30.8		13.3			10.0	6.8	
17	20.6	23.1	22.4	25.4	31.3		15.4			9.5	6.6	
18	20.6	23.3	22.2	26.3	32.6		17.6			9.9	6.9	
19	20.6	23.5	24.0	26.5	33.4		25.1			9.9	8.1	
20	20.6	23.3		25.1	31.8		27.5			9.5	8.2	
21	20.6	23.3		25.6	31.6		25.1			9.4	9.3	
22	20.6	23.5		26.3	31.3		25.1			9.3	9.4	
23	20.6	22.6		25.1	32.1		24.0			8.8		
24	20.6	21.7		25.1	32.1		22.8			8.5		
25	20.6	25.1		24.0	31.3		20.0			7.3		
26	20.6	24.0		24.4	32.1		18.6			5.9	26.3	
27	20.6	24.7		26.8	34.0					5.4	25.8	
28	20.6	25.4		26.5						6.0	25.8	
29	20.6	25.1		25.8						5.9	25.8	
30	20.6	25.1		26.8						5.9	25.6	
31	20.9		23.7	26.8						4.5		

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 2000 through September 2001

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25.4								9.0	6.5	4.1	6.8
2	25.1								9.3	6.2	4.0	6.9
3	25.8								10.0	5.6	4.2	7.3
4									12.2	4.7	4.5	6.9
5									14.7	5.0	5.0	6.9
6									14.0	6.8	5.0	7.6
7									12.1	7.3	4.6	8.2
8									12.1	6.6	4.7	9.3
9									11.8		4.6	9.7
10									11.3		5.0	9.4
11									10.9		5.6	9.3
12									10.5		5.6	9.3
13									10.5	14.9	5.0	9.5
14									10.3	12.6	5.5	10.2
15								13.6	10.2	11.1	5.6	11.1
16								13.3	9.7	9.7	5.6	11.1
17								9.7	9.5	9.0	5.6	11.6
18								8.5	9.4	8.5	5.8	12.1
19								8.5	9.0	7.8	5.6	14.2
20								10.3	7.6	7.1	5.5	12.2
21								11.4	6.6	5.6	5.4	10.5
22								10.5	6.9	5.0	5.6	10.0
23								10.0	6.9	4.6	5.9	9.9
24								10.9	7.4	4.5	6.2	8.7
25								10.5	6.2	4.3	6.2	8.0
26								9.0	5.6	4.5	5.8	7.6
27								9.0	6.2	5.0	5.4	7.6
28								9.4	8.2	4.7	5.0	7.6
29								8.7	9.0	4.5	5.0	7.8
30								9.7	7.3	4.0	4.7	8.4
31								9.4		4.3	5.6	

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 2001 through September 2002

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.2	13.8	17.20	14.3	15.3	13.8		10.9			1.3	6.2
2	8.2	13.8		15.1	14.7	13.8	21.5	10.5	7.6		1.1	6.2
3	8.7	13.8		14.5	14.7	13.8	21.7	9.4	9.0		1.3	5.9
4	10.2	13.8	17.8	14.7	14.9	14.0	23.1	10.5	10.5	4.7	0.9	5.0
5	10.9	13.8	17.6		14.9	14.5	22.8	7.8	11.1	4.7	1.3	5.5
6	10.9	13.8	16.4		15.3	15.3	22.6	7.6	10.0	4.6	1.7	5.0
7	10.8	13.8	18.0		15.3	16.6	21.3	7.0	9.4	4.7	2.5	4.5
8	10.9	14.7	15.3	13.6	15.1	17.6	20.6	7.1	8.7	4.9	2.1	5.0
9	11.1	14.9	15.6	15.3	14.7		20.0	6.6	8.2	3.6	2.2	6.2
10	11.4	14.7	17.6	15.6	14.3		20.2	6.9	7.8	2.0	1.9	6.6
11	11.6	14.7	16.6	15.6			20.2	7.6	7.4	1.5	2.5	6.4
12	11.6	14.7	14.2	15.1	15.4	19.0		8.7	7.3	2.3	3.0	9.0
13	11.6	14.9	15.6	14.9	15.1	18.6		8.5	6.9	2.6	4.0	9.7
14	12.2	15.1	15.3	14.7	15.3	22.4		8.4	6.9	2.7	4.5	10.8
15	13.1	15.1	16.0	14.7	15.8	24.4		8.5	6.8	2.7	4.5	9.0
16	13.8	15.1	15.8	14.3	15.8	24.0		8.1	6.6	1.9	3.0	8.2
17	13.3	15.1	16.0	14.2	16.0			7.8	6.6	1.4	2.1	7.4
18	12.9	15.1	16.2	14.2	16.2		14.5	7.6	6.9	0.9	2.5	7.1
19	12.9	14.5	16.0	14.2	14.5	16.6	14.3	7.1	6.2	1.1	1.9	7.0
20	12.9	15.6	16.4	14.2	14.9	18.4	14.2	7.0	6.2	1.4	2.1	6.9
21	12.9	15.3	16.4	13.8	15.3	17.0	14.5	7.1	5.5	2.8	3.0	6.6
22	12.9	14.3	16.4	14.2	16.0	15.6	14.7	8.5	5.3	3.7	2.5	5.4
23	12.8	15.4	16.4	14.7	15.8	16.8	14.5	7.1	3.5	3.3	2.5	4.8
24	12.8	15.4	16.0	14.7	15.8	16.2	14.2	7.3	4.7	3.7	4.5	4.2
25	12.9	13.8	15.3	14.7	13.8	16.6	12.1	7.3	4.2	3.4	5.6	4.4
26	12.9	15.4	14.3	15.1	13.8	18.2	9.7	6.9	4.3	3.6	6.2	4.7
27	13.6	15.4	14.5	15.3	13.8	17.6	9.7	7.0	3.6	3.6	5.0	5.0
28	14.0	13.8	14.5	15.3	13.8	21.1	10.2		3.4	3.5	6.6	4.7
29	13.8	14.7	14.5			21.3	10.5		3.6	3.2	7.0	4.8
30	13.8	16.8	14.5			20.9	10.6		3.4	3.2	6.6	4.0
31	13.8		14.5			20.6				2.5	6.4	

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 2002 through September 2003

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.0	10.9		12.1		14.7		11.3	6.8	5.3		5.2
2	4.1	10.5		12.1		15.6		11.3	7.8	4.6		4.6
3	4.3	10.5		12.2			17.6	10.6	7.7	4.3		4.2
4	4.5	10.8		12.6			17.6	10.3	8.2	5.0		5.0
5	4.5	11.1		12.9			18.2	10.6	8.1	5.4		5.0
6	4.5	10.8					18.6	10.8	8.2	5.4		
7	4.6	10.8					18.6	10.5	9.3	5.5		
8	5.4	10.8					19.2	12.4	10.0	5.2		
9	4.5	10.8					19.4	12.8	10.0	5.0		
10	4.0	10.8					18.6	12.2	9.3	4.9		
11	4.0	10.6					17.6	12.1	9.0	4.6		15.3
12	4.0	10.5				18.2	17.2	13.8	8.7	4.9		11.3
13	4.5	10.5				18.6	16.6	14.2	8.5	4.5		8.5
14	4.0	10.5			15.6	18.6	16.0	13.6	8.5	4.3		7.8
15	4.3	10.5			16.0	18.6	14.7	12.9	8.4	4.1		7.7
16	4.5				16.0	18.4	14.2	12.4	7.8	3.7		7.6
17	4.5				15.8	18.6	13.8	11.4	7.6	3.9		7.4
18	4.6		13.6		15.4	20.6	13.6	11.8	8.0	3.7		7.7
19	4.6		10.8		15.4	21.1	13.3	11.3	8.1	4.3		7.8
20	4.7		10.8		15.4	19.6	13.1	11.3	8.0	4.0		7.8
21	4.9		12.1		15.4	19.4	13.1	10.9	7.6	3.4		7.6
22	5.0		12.6		15.3	18.6	15.3	10.3	7.8	3.0		7.3
23	5.3		11.3			17.6		10.2	8.2	3.6		7.0
24	5.5		10.0			17.6	16.0	10.2	7.1	2.8		6.9
25	5.8		10.2			17.2	14.7	10.6	6.8	3.0	4.0	7.0
26	5.6		10.3			17.0	12.4	9.7	6.1		3.9	8.0
27	5.8		10.5			18.6	11.1	7.6	5.6		3.6	7.8
28	5.9		10.6			18.6	10.6	6.9	5.4		3.3	7.3
29	6.0		11.6			17.6	10.2	6.9	5.5		3.3	7.0
30	5.6		11.6			18.6	10.3	6.5	5.6		4.5	7.1
31	7.6		11.9					6.5			5.0	

Niobrara River at Agate, Nebraska, Station 06454100

Discharge, Cubic Feet per Second, Water Year October 2003 through September 2004

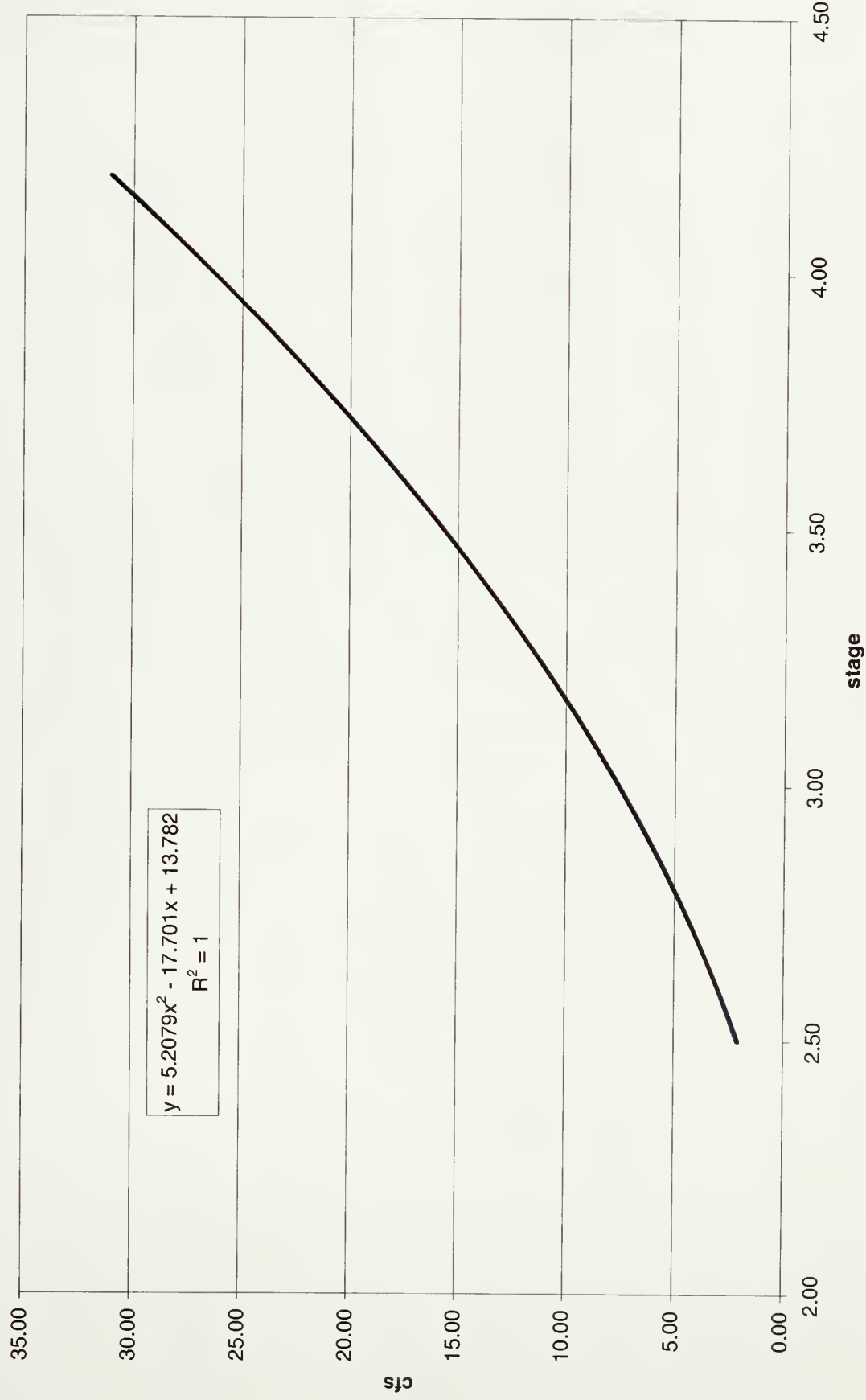
Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.8	7.4							7.30			
2	8.1	8.5										
3	8.0											
4	7.7											
5	7.6											
6	7.6											
7	7.6											
8	7.6											
9	7.6											
10	7.6								6.9			
11	7.6								6.6			
12	7.7							7.1	6.2			
13	7.7							7.6	5.9			
14	7.8							7.6	5.6			
15	8.0							7.3	4.5			
16	8.1							7.3	4.5			
17	8.1							7.3	5.0			
18	8.1							8.4	5.0			
19	8.1							9.3	5.6			
20	8.1							8.2	6.2			
21	8.1							7.8				
22	8.1							8.2				
23	8.1							8.7				
24	8.1							8.8				
25	8.4							8.1				
26	8.5							7.0				
27	8.5							6.9				
28	8.2							6.9				
29	5.6							6.9				
30	5.3							6.8				
31	5.9							6.6				

Rating Table and Rating Curves

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY									
DATE PROCESSED: 11-23-1994 @ 14:42 BY DEHITCH									
DD: 2 TYPE: 001 RATING NO: 8.00									
START DATE/TIME: 10-01-86 (0015)									
TYPE: LOG									
BASED ON _____ DISCHARGE MEASUREMENTS, NOS _____, AND IS _____, AND IS _____ WELL DEFINED BETWEEN _____ AND _____ CFS									
COMP BY _____ DATE _____ CHK. BY _____ DATE _____									
GAGE	DISCHARGE IN CUBIC FEET PER SECOND					(EXPANDED PRECISION)	DIFF IN Q		
HEIGHT	.00	.01	.02	.03	.04	.05	.06	.07	PER
(FEET)									TENTH FT
2.50	2.150*	2.228	2.308	2.389	2.471	2.554	2.638	2.724	2.811
2.60	2.989	3.079	3.171	3.264	3.358	3.454	3.550	3.648	3.747
2.70	3.948	4.051	4.154	4.259	4.365	4.472	4.581	4.690	4.801
2.80	5.025	5.139	5.255	5.371	5.488	5.607	5.727	5.847	5.969
2.90	6.217	6.342	6.469	6.596	6.725	6.855	6.985	7.117	7.251
3.00	7.520	7.656	7.794	7.933	8.072	8.213	8.355	8.498	8.642
3.10	8.933	9.080	9.228	9.378	9.528	9.680	9.832	9.986	10.14
3.20	10.45	10.61	10.77	10.93	11.09	11.25	11.42	11.58	11.75
3.30	12.08	12.25	12.42	12.59	12.76	12.93	13.11	13.28	13.46
3.40	13.81	13.99	14.17	14.35	14.53	14.71	14.90	15.08	15.27
3.50	15.64	15.83	16.02	16.21	16.40	16.60	16.79	16.99	17.18
3.60	17.58	17.78	17.98	18.18	18.38	18.58	18.79	18.99	19.20
3.70	19.61	19.82	20.03	20.24	20.45	20.67	20.88	21.09	21.31
3.80	21.74	21.96	22.18	22.40	22.63	22.85	23.07	23.30	23.52
3.90	23.98	24.20	24.43	24.66	24.89	25.13	25.36	25.59	25.83
4.00	26.30	26.54	26.78	27.02	27.26	27.50	27.75	27.99	28.23
4.10	28.73	28.97	29.22	29.47	29.72	29.97	30.23	30.48	30.73
4.20	31.24	31.50	31.76	32.02	32.28	32.54	32.80	33.06	33.33
4.30	33.86	34.12	34.39	34.66	34.93	35.20	35.47	35.74	36.01
4.40	36.56	36.84	37.11	37.39	37.67	37.95	38.23	38.51	38.79
4.50	39.36	39.65	39.93	40.22	40.51	40.79	41.08	41.37	41.67
4.60	42.25	42.54	42.84	43.14	43.43	43.73	44.03	44.33	44.63
4.70	45.23	45.53	45.84	46.14	46.45	46.76	47.06	47.37	47.68
4.80	48.30	48.61	48.93	49.24	49.56	49.87	50.19	50.51	50.82
4.90	51.46	51.78	52.11	52.43	52.75	53.08	53.40	53.73	54.06
5.00	54.71	55.04	55.37	55.71	56.04	56.37	56.71	57.04	57.38
5.10	58.05	58.39	58.73	59.07	59.41	59.75	60.10	60.44	60.79
5.20	61.48	61.83	62.18	62.52	62.87	63.23	63.58	63.93	64.28
5.30	64.99	65.35	65.71	66.06	66.42	66.78	67.14	67.51	67.87
5.40	68.59	68.96	69.33	69.69	70.06	70.43	70.80	71.17	71.54
5.50	72.28	72.66	73.03	73.41	73.78	74.16	74.54	74.91	75.29
5.60	76.06	76.44	76.82	77.20	77.59	77.97	78.36	78.75	79.14
5.70	79.91	80.31	80.70	81.09	81.48	81.88	82.27	82.67	83.06
5.80	83.86	84.26	84.66	85.06	85.46	85.86	86.27	86.67	87.07
5.90	87.89	88.29	88.70	89.11	89.52	89.93	90.34	90.76	91.17
6.00	92.00*								

Niobrara River at Agate Nebraska



Niobrara River at Agate, Nebraska
USGS Station 06454100

