

RED RIVER OF THE NORTH BASIN--Continued

05106000 SPRAGUE CREEK NEAR SPRAGUE, MANITOBA

LOCATION.--Lat 48°59'33", long 95°39'43", in NE $\frac{1}{4}$ sec. 34, T.164 N., R.39 W., Roseau County, Hydrologic Unit 09020314, on left bank 0.5 mi south of international boundary, 3.5 mi south of Sprague, Manitoba, 8 mi upstream from mouth, and 10.5 mi northeast of Roseau, MN.

DRAINAGE AREA.--176 mi².

PERIOD OF RECORD.--September 1928 to December 1981, October, 1999 to current year.

REVISED RECORDS.--WSP 1055: 1944. WSP 1308: 1931(M). WDR MN-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,038.40 ft above sea level, 1928 datum, (levels by Geodetic Survey of Canada). Prior to Mar. 15, 1929, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	e230	e100	e8.6	6.4	4.1	e10	278	337	89	336	16
2	54	e384	e90	e8.5	6.0	4.2	e17	289	377	71	479	14
3	57	e486	e80	e8.4	6.0	4.2	e47	285	389	62	398	14
4	51	e516	e72	e8.2	5.9	4.2	e80	267	361	59	332	13
5	48	e493	e64	e8.1	5.9	4.1	e132	250	320	51	267	12
6	49	e487	e55	e8.0	5.9	4.1	e240	247	275	46	280	12
7	49	e632	e49	e7.9	5.8	4.1	e290	268	240	42	227	17
8	46	e977	e43	e7.8	5.8	4.2	e370	289	228	39	173	20
9	42	e1190	e38	e7.8	5.7	4.2	e470	291	202	35	147	18
10	41	e1090	e33	e7.8	5.5	4.3	553	278	176	30	126	16
11	40	e920	e29	e7.7	5.2	4.2	576	263	162	26	103	15
12	38	e785	e25	e7.7	5.2	4.3	617	246	148	21	94	15
13	38	e688	e23	e7.8	5.3	4.3	597	230	132	17	78	12
14	37	610	e19	e7.7	5.2	4.3	585	219	131	17	63	11
15	36	556	e18	e7.6	4.8	4.3	e610	221	140	19	64	12
16	37	466	e17	e7.6	4.6	4.3	e516	213	147	19	72	12
17	36	419	e16	e7.5	4.5	4.4	e485	203	133	19	66	12
18	36	e370	e15	e7.4	4.6	4.6	e462	185	120	18	57	12
19	34	e330	e15	e7.4	4.6	5.3	439	167	193	34	55	12
20	33	e300	e14	e7.3	4.3	e6.8	431	152	219	48	50	12
21	33	e280	e13	e7.2	4.1	e9.0	448	151	202	43	45	12
22	33	e250	e13	e7.2	4.1	e14	429	177	176	44	41	12
23	32	e230	e12	e7.1	4.0	e13	404	342	149	39	37	14
24	31	e210	e12	e7.1	4.0	e12	379	356	133	34	33	13
25	38	e190	e11	7.0	4.1	e10	352	335	121	29	30	12
26	126	e170	e11	7.0	4.1	e9.0	333	335	109	24	27	11
27	204	e155	e10	7.0	4.0	e7.5	315	426	96	23	23	11
28	200	e140	e9.6	6.9	4.1	e6.6	301	490	88	41	21	11
29	202	e125	e9.4	6.8	---	e6.0	290	448	133	56	19	10
30	200	e110	e9.0	6.8	---	e7.0	285	417	119	48	18	10
31	191	---	e8.8	6.7	---	e8.5	---	369	---	59	17	---
TOTAL	2137	13789	933.8	233.6	139.7	191.1	11063	8687	5756	1202	3778	393
MEAN	68.9	460	30.1	7.54	4.99	6.16	369	280	192	38.8	122	13.1
MAX	204	1190	100	8.6	6.4	14	617	490	389	89	479	20
MIN	31	110	8.8	6.7	4.0	4.1	10	151	88	17	17	10
AC-FT	4240	27350	1850	463	277	379	21940	17230	11420	2380	7490	780
CFSM	.39	2.61	.17	.04	.03	.04	2.10	1.59	1.09	.22	.69	.07
IN.	.45	2.91	.20	.05	.03	.04	2.34	1.84	1.22	.25	.80	.08

05106000 SPRAGUE CREEK NEAR SPRAGUE, MANITOBA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	34.5	30.5	5.57	2.17	1.83	16.8	177	162	107	48.9	26.0	41.2
MAX	259	460	30.1	10.3	7.32	193	633	709	431	315	160	419
(WY)	1942	2001	2001	1966	2000	1945	1966	1950	1944	1937	1968	1941
MIN	.95	1.10	.20	.23	.13	.53	7.16	2.21	.11	.030	.094	.39
(WY)	1953	1977	1977	1977	1977	1964	1981	1980	1980	1980	1961	1934

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1929 - 2001
ANNUAL TOTAL	34697.4	48303.2	
ANNUAL MEAN	94.8	132	58.6
HIGHEST ANNUAL MEAN			132
LOWEST ANNUAL MEAN			4.07
HIGHEST DAILY MEAN	1190	Nov 9	1190
LOWEST DAILY MEAN	1.4	Feb 14	4.0
ANNUAL SEVEN-DAY MINIMUM	1.4	Feb 14	4.1
MAXIMUM PEAK FLOW			1200
MAXIMUM PEAK STAGE			13.43c
INSTANTANEOUS LOW FLOW			4.0
ANNUAL RUNOFF (AC-FT)	68820	95810	42440
ANNUAL RUNOFF (CFSM)	.54	.75	.33
ANNUAL RUNOFF (INCHES)	7.33	10.21	4.52
10 PERCENT EXCEEDS	274	393	165
50 PERCENT EXCEEDS	34	38	8.6
90 PERCENT EXCEEDS	1.8	5.3	1.0

- a No flow at times in some years.
- b Gage height, 15.00 ft.
- c From highwater mark.
- e Estimated.

