

05106000 SPRAGUE CREEK NEAR SPRAGUE, MANITOBA

LOCATION.--Lat 48°59'33", long 95°39'43", in NE¹/₄NE¹/₄sec. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	269	e26	e5.5	e5.0	e4.4	e200	144	165	1,050	54	56
2	148	242	e24	e5.3	e5.2	e4.4	e325	135	154	892	48	55
3	132	218	e22	e5.1	e5.3	e4.4	e360	127	165	861	87	49
4	120	200	e20	e4.9	e5.4	e4.4	e370	121	172	974	133	43
5	107	182	e19	e4.7	e5.5	e4.5	376	116	232	891	86	43
6	100	168	e17	e4.6	e5.6	e4.7	419	112	407	725	53	63
7	94	155	e17	e4.6	e5.6	e4.7	426	105	428	586	41	61
8	95	139	e16	e4.5	e5.4	e4.6	430	108	455	477	34	49
9	105	128	e15	e4.5	e5.2	e4.5	427	140	449	422	30	44
10	98	123	e14	e4.4	e5.2	e4.5	411	241	436	356	25	42
11	93	109	e14	e4.4	e5.3	e4.5	383	257	422	306	23	41
12	84	e105	e13	e4.4	e5.4	e4.4	403	248	557	300	23	37
13	79	e100	e12	e4.4	e5.6	e4.4	413	235	724	247	21	35
14	76	e97	e12	e4.4	e5.6	e4.4	393	242	724	196	21	34
15	70	e93	e11	e4.4	e5.5	e4.4	369	244	776	171	19	32
16	72	89	e11	e4.4	e5.2	e4.4	345	223	690	132	19	30
17	68	88	e10	e4.4	e4.9	e4.5	329	201	554	116	20	34
18	62	87	e9.7	e4.3	e4.8	e4.6	317	180	448	106	20	38
19	64	83	e9.2	e4.3	e4.6	e4.6	308	165	366	98	41	36
20	90	e82	e8.5	e4.2	e4.6	e4.7	292	158	324	184	95	34
21	95	e78	e7.9	e4.1	e4.5	e4.8	272	176	290	150	84	31
22	100	e73	e7.0	e4.0	e4.5	e4.9	253	316	230	112	65	30
23	156	e67	e6.5	e4.1	e4.5	e5.0	223	321	185	97	54	27
24	218	e61	e5.8	e4.1	e4.4	e5.1	200	290	168	86	46	29
25	237	e48	e5.5	e4.2	e4.4	e5.2	192	290	157	70	49	29
26	232	e41	e5.2	e4.3	e4.4	e5.3	187	280	171	60	61	27
27	215	e36	e5.2	e4.4	e4.4	e6.0	175	260	295	53	61	26
28	279	e32	e5.2	e4.5	e4.4	e7.0	162	239	359	49	56	25
29	378	e30	e5.3	e4.7	---	e14	153	222	337	49	49	23
30	347	e29	e5.6	e4.8	---	e26	150	204	828	41	44	22
31	309	---	e5.7	e4.9	---	e65	---	184	---	50	44	---
TOTAL	4,480	3,252	365.3	139.8	140.4	238.3	9,263	6,284	11,668	9,907	1,506	1,125
MEAN	145	108	11.8	4.51	5.01	7.69	309	203	389	320	48.6	37.5
MAX	378	269	26	5.5	5.6	65	430	321	828	1,050	133	63
MIN	62	29	5.2	4.0	4.4	4.4	150	105	154	41	19	22
AC-FT	8,890	6,450	725	277	278	473	18,370	12,460	23,140	19,650	2,990	2,230
CFSM	0.82	0.62	0.07	0.03	0.03	0.04	1.75	1.15	2.21	1.82	0.28	0.21
IN.	0.95	0.69	0.08	0.03	0.03	0.05	1.96	1.33	2.47	2.09	0.32	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	36.4	31.6	5.75	2.29	1.95	16.8	178	169	136	55.8	27.7	44.3
MAX	259	460	30.1	10.3	7.32	193	633	709	1,238	320	160	419
(WY)	(1942)	(2001)	(2001)	(1966)	(2000)	(1945)	(1966)	(1950)	(2002)	(2005)	(1968)	(1941)
MIN	0.95	1.10	0.20	0.23	0.13	0.53	7.16	2.21	0.11	0.03	0.09	0.39
(WY)	(1953)	(1977)	(1977)	(1977)	(1977)	(1964)	(1981)	(1980)	(1980)	(1980)	(1961)	(1934)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	58,665.2		48,368.8			
ANNUAL MEAN	160		133		63.5	
HIGHEST ANNUAL MEAN					150	2002
LOWEST ANNUAL MEAN					4.07	1980
HIGHEST DAILY MEAN	1,990	May 13	1,050	Jul 1	8,070	Jun 11, 2002
LOWEST DAILY MEAN	3.4	Feb 27	4.0	Jan 22	a0.00	Apr 1, 1930
ANNUAL SEVEN-DAY MINIMUM	3.4	Feb 27	4.1	Jan 19	0.00	Aug 7, 1936
MAXIMUM PEAK FLOW			1,080	Jul 1	b8,440	Jun 11, 2002
MAXIMUM PEAK STAGE			12.53	Jul 1	17.08	Jun 11, 2002
INSTANTANEOUS LOW FLOW			c4.0	Jan 22		
ANNUAL RUNOFF (AC-FT)	116,400		95,940		46,010	
ANNUAL RUNOFF (CFSM)	0.911		0.753		0.361	
ANNUAL RUNOFF (INCHES)	12.40		10.22		4.90	
10 PERCENT EXCEEDS	407		367		177	
50 PERCENT EXCEEDS	86		60		9.8	
90 PERCENT EXCEEDS	3.7		4.5		1.1	

- a Many days, several years.
- b From rating curve extended above 2,560 ft³/s.
- c Estimated, minimum daily.
- e Estimated.

