

MINNESOTA RIVER BASIN

05294000 POMME DE TERRE RIVER AT APPLETON, MN

LOCATION.--Lat 4512'10", long 9601'20", in SW 1 / 4 NW 1 / 4 sec. 14, T.120 N., R.43 W., Swift County, Hydrologic Unit 07020002, on left bank 60 ft upstream from bridge on U.S. Highway 59 and State Highway 119 at Appleton and 8 mi upstream from mouth.

DRAINAGE AREA.--864 mi², (revised).

PERIOD OF RECORD.--March 1931 to September 1935 (no winter records), October 1935 to current year. Prior to October 1953, published as "near Appleton."

REVISED RECORDS.--WSP 1308: 1931(M), 1937(M).

GAGE.--Water-stage recorder. Datum of gage is 978.00 ft above mean sea level. Prior to Dec. 22, 1952, nonrecording gage at site 4 mi upstream at datum 25.17 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow affected by lakes above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*)

Date	Time	Discharge		Date	Time	Discharge	
		(ft ³ /s)	Gage height (ft)			(ft ³ /s)	Gage height (ft)
Feb. 27	2000	616	5.80	June 29	1000	267	4.93
Apr. 10	0400	*748	*6.05	July 09	1500	304	5.05
May 17	2300	297	5.03	July 16	2300	577	5.72

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	e107	99	e72	e85	472	423	239	189	247	157	97
2	83	e105	99	e73	e85	463	458	235	183	231	150	93
3	78	e103	98	e72	e84	448	512	239	177	217	151	92
4	75	102	90	e71	e84	407	578	232	172	207	151	91
5	73	126	59	71	e84	392	637	223	169	202	151	85
6	73	112	e67	80	e84	370	653	217	170	226	146	83
7	72	100	e73	82	e84	345	653	207	167	277	141	79
8	75	e101	e80	84	e84	318	678	205	160	282	136	76
9	79	e102	e82	81	e85	161	711	217	156	299	132	73
10	91	e101	e81	85	e86	145	743	221	154	298	129	68

11	97	e100	e80	72	e87	e175	722	220	148	276	e122	63
12	105	e100	e78	73	e88	e179	691	229	145	248	e118	59
13	116	e99	e78	e87	e89	e176	666	240	142	225	e113	60
14	126	98	e79	e87	e90	e172	678	244	140	212	e108	64
15	147	97	e79	e85	e92	e170	679	238	140	277	e104	60
16	154	97	e80	e83	e94	e172	616	250	145	477	e100	57
17	151	97	e80	e80	e98	e175	557	287	150	526	e97	56
18	143	97	e80	e79	e105	e183	504	296	148	397	e94	62
19	135	97	e78	e78	e119	e200	465	285	148	364	e91	65
20	132	e96	e75	e77	e135	e220	434	270	185	407	e98	62
21	130	e95	e75	e76	e161	e240	403	255	205	403	e120	57
22	128	e93	e75	e76	e180	247	379	239	201	368	e140	50
23	125	e91	e75	e76	e210	248	357	228	193	338	e155	48
24	122	e89	e75	e77	e280	233	335	223	183	301	e145	47
25	119	87	e75	e78	388	227	319	241	178	272	135	46
26	117	86	e75	e79	431	247	309	251	192	243	126	46
27	115	98	e75	e80	557	280	302	239	231	222	118	45
28	115	99	e75	e81	512	292	282	226	250	202	113	44
29	e113	101	e74	e83	---	308	271	213	264	185	108	44
30	e110	96	e72	e85	---	349	259	204	261	174	103	43
31	e108	---	e66	e85	---	404	---	197	---	166	101	---
TOTAL	3391	2972	2427	2448	4561	8418	15274	7310	5346	8769	3853	1915
MEAN	109	99.1	78.3	79.0	163	272	509	236	178	283	124	63.8
MAX	154	126	99	87	557	472	743	296	264	526	157	97
MIN	72	86	59	71	84	145	259	197	140	166	91	43
AC-FT	6730	5890	4810	4860	9050	16700	30300	14500	10600	17390	7640	3800
CFSM	.12	.11	.09	.09	.18	.30	.56	.26	.20	.31	.14	.07

e Estimated

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931
- 1998, BY WATER YEAR (WY)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	68.1	64.4	42.7	27.8	28.2	164	408	211	165	145	78.2	56.0
MAX	550	402	182	141	163	675	3087	846	516	1382	752	331
(WY)	1996	1996	1987	1987	1998	1995	1997	1969	1965	1993	1993	1986
MIN	.000	3.52	1.00	.000	.000	2.04	20.9	8.09	2.17	.45	.095	.047
(WY)	1989	1989	1937	1937	1936	1969	1934	1934	1933	1988	1988	1988

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1931 - 1998
ANNUAL TOTAL	152350	66684	
ANNUAL MEAN	417	183	129a
HIGHEST ANNUAL MEAN			420 1997
LOWEST ANNUAL MEAN			21.1 1977
HIGHEST DAILY MEAN	6760	Apr 6 743	Apr 10 6760 Apr 6 1997
LOWEST DAILY MEAN	19	Jan 17 43	Sep 30 .00b Aug 3 1934
ANNUAL SEVEN- DAY MINIMUM	20	Jan 16 45	Sep 24 .00 Feb 1 1936
INSTANTANEOUS PEAK FLOW		748	Apr 10 8890 Apr 7 1997
INSTANTANEOUS PEAK STAGE		6.05	Apr 10 18.13 Apr 7 1997
INSTANTANEOUS LOW FLOW		28	Dec 5 .00b Aug 3 1934
ANNUAL RUNOFF (AC-FT)	302200	132300	93560
ANNUAL RUNOFF (CFSM)	.46	.20	.14
10 PERCENT EXCEEDS	893	383	290
50 PERCENT EXCEEDS	119	129	50
90 PERCENT	37	73	6.5

EXCEEDS							
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a Median of annual mean discharges is 96 ft³/s.

b Many days, several years.

