

## 05294000 POMME DE TERRE RIVER AT APPLETON, MN

LOCATION.--Lat 45°12'10", long 96°01'20", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec. 14, T.120 N., R.43 W., Swift County, Hydrologic Unit 07020002, on left bank 400 ft upstream from bridge on U.S. Highway 59 and State Highway 119 at Appleton and 8 mi upstream from mouth.

DRAINAGE AREA.--864 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1931 to September 1935 (no winter records), October 1935 to September 1999, June 2003 to current year. Peak flows available for water years 2000-2002. 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 sea level (NGVD of 1929). Prior to Dec. 22, 1952, nonrecording gage at site 4 mi upstream at datum 25.17 ft higher.

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

DAILY MEAN VALUES  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
JUN 12	e182	JUL 1	773	JUL 20	284	AUG 8	139	AUG 27	72	SEP 15	59
JUN 13	173	JUL 2	722	JUL 21	272	AUG 9	135	AUG 28	73	SEP 16	57
JUN 14	166	JUL 3	658	JUL 22	259	AUG 10	132	AUG 29	68	SEP 17	53
JUN 15	e157	JUL 4	608	JUL 23	248	AUG 11	132	AUG 30	64	SEP 18	55
JUN 16	e149	JUL 5	578	JUL 24	233	AUG 12	126	AUG 31	62	SEP 19	55
JUN 17	e144	JUL 6	571	JUL 25	220	AUG 13	121	SEP 1	59	SEP 20	57
JUN 18	e135	JUL 7	562	JUL 26	210	AUG 14	115	SEP 2	57	SEP 21	56
JUN 19	e127	JUL 8	549	JUL 27	202	AUG 15	110	SEP 3	53	SEP 22	54
JUN 20	e118	JUL 9	527	JUL 28	196	AUG 16	106	SEP 4	51	SEP 23	54
JUN 21	e110	JUL 10	494	JUL 29	189	AUG 17	103	SEP 5	49	SEP 24	52
JUN 22	e105	JUL 11	521	JUL 30	180	AUG 18	101	SEP 6	48	SEP 25	41
JUN 23	e100	JUL 12	518	JUL 31	180	AUG 19	101	SEP 7	46	SEP 26	35
JUN 24	e130	JUL 13	472	AUG 1	172	AUG 20	95	SEP 8	43	SEP 27	35
JUN 25	287	JUL 14	429	AUG 2	164	AUG 21	92	SEP 9	42	SEP 28	33
JUN 26	456	JUL 15	392	AUG 3	159	AUG 22	90	SEP 10	57	SEP 29	33
JUN 27	597	JUL 16	362	AUG 4	154	AUG 23	87	SEP 11	69	SEP 30	34
JUN 28	690	JUL 17	330	AUG 5	151	AUG 24	82	SEP 12	78		
JUN 29	752	JUL 18	315	AUG 6	150	AUG 25	79	SEP 13	67		
JUN 30	784	JUL 19	296	AUG 7	144	AUG 26	75	SEP 14	61		

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	40	47	e40	e8.2	e47	152	108	259	163	152	89
2	34	41	48	e39	e8.2	e48	146	104	288	155	146	86
3	33	41	50	e35	e8.2	e48	142	103	304	148	141	82
4	33	39	50	e33	e8.1	e50	138	102	300	147	137	75
5	34	43	49	e31	e8.1	e51	137	109	289	144	132	72
6	36	e25	50	e29	e8.1	e50	133	111	277	150	125	75
7	33	e27	52	e27	e8.0	e53	132	103	263	160	130	74
8	32	e29	52	e24	e8.0	e56	134	103	258	185	129	76
9	32	e33	53	e23	e8.0	e57	137	101	283	179	125	74
10	34	e40	52	e22	e8.0	e59	129	103	328	178	122	72
11	38	44	e43	e22	e7.9	e61	122	109	376	179	124	69
12	41	46	e38	e21	e8.0	e67	119	111	379	190	123	70
13	47	42	e37	e20	e8.0	e73	115	186	392	205	116	69
14	47	50	e37	e19	e8.1	e75	112	224	383	212	110	67
15	42	55	e38	e18	e8.1	e75	110	216	343	228	105	82
16	41	47	e38	e14	e9.0	e74	111	191	310	240	103	117
17	40	46	e39	e12	e9.9	e73	111	176	288	236	99	139
18	40	46	e39	e9.8	e10	e71	113	177	269	231	100	133
19	36	47	e40	e9.1	e11	e70	114	169	252	224	99	131
20	36	46	e40	e8.5	e12	e71	126	158	237	215	97	131
21	37	e42	e40	e8.4	e13	e73	139	153	222	206	91	168
22	39	e22	e40	e8.6	e16	e100	149	150	210	196	86	217
23	41	15	e40	e8.6	e19	e120	141	148	203	185	82	238
24	38	e16	e40	e8.7	e24	e130	131	149	194	172	82	256
25	37	e19	e41	e8.6	e31	e140	124	152	187	159	80	277
26	36	e36	e41	e8.6	e33	159	118	160	183	149	80	288
27	40	48	e41	e8.5	e39	151	118	164	179	139	94	307
28	42	40	e42	e8.4	e42	158	115	173	180	136	89	331
29	39	40	e42	e8.4	e44	179	106	168	177	131	91	351
30	48	45	e42	e8.3	---	172	105	182	169	142	92	370
31	45	---	e41	e8.3	---	161	---	233	---	154	94	---
TOTAL	1,185	1,150	1,342	549.8	433.9	2,772	3,779	4,596	7,982	5,538	3,376	4,586
MEAN	38.2	38.3	43.3	17.7	15.0	89.4	126	148	266	179	109	153
MAX	48	55	53	40	44	179	152	233	392	240	152	370
MIN	32	15	37	8.3	7.9	47	105	101	169	131	80	67
AC-FT	2,350	2,280	2,660	1,090	861	5,500	7,500	9,120	15,830	10,980	6,700	9,100
CFSM	0.04	0.04	0.05	0.02	0.02	0.10	0.14	0.16	0.29	0.20	0.12	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

	68.4	65.6	44.5	28.5	29.4	164	403	213	168	151	81.0	59.4
MEAN	68.4	65.6	44.5	28.5	29.4	164	403	213	168	151	81.0	59.4
MAX	550	402	182	141	163	675	3,087	846	516	1,382	752	331
(WY)	(1996)	(1996)	(1987)	(1987)	(1998)	(1995)	(1997)	(1969)	(1965)	(1993)	(1993)	(1986)
MIN	0.00	3.52	1.00	0.00	0.00	2.04	20.9	8.09	2.17	0.45	0.10	0.05
(WY)	(1989)	(1989)	(1937)	(1937)	(1936)	(1969)	(1934)	(1934)	(1933)	(1988)	(1988)	(1988)

05294000 POMME DE TERRE RIVER AT APPLETON, MN—Continued

SUMMARY STATISTICS

	FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	37,289.7			
ANNUAL MEAN	102		a130	
HIGHEST ANNUAL MEAN			420	1997
LOWEST ANNUAL MEAN			21.1	1977
HIGHEST DAILY MEAN	392	Jun 13	6,760	Apr 6, 1997
LOWEST DAILY MEAN	7.9	Feb 11	b0.00	Aug 3, 1934
ANNUAL SEVEN-DAY MINIMUM	8.0	Feb 7	0.00	Feb 1, 1936
MAXIMUM PEAK FLOW	401	Jun 12	c8,890	Apr 7, 1997
MAXIMUM PEAK STAGE	6.23	Jun 12	c18.13	Apr 7, 1997
INSTANTANEOUS LOW FLOW	d7.9	Feb 11	b0.00	Aug 3, 1934
ANNUAL RUNOFF (AC-FT)	73,960		94,220	
ANNUAL RUNOFF (CFSM)	0.113		0.144	
10 PERCENT EXCEEDS	218		302	
50 PERCENT EXCEEDS	76		55	
90 PERCENT EXCEEDS	14		8.5	

- a Median of annual mean discharges is 100 ft<sup>3</sup>/s.
- b Many days, several years.
- c Due in part to dam failure; from highwater mark.
- d Estimated daily-mean discharge, backwater from ice.
- e Estimated.

