

05383950 ROOT RIVER NEAR PILOT MOUND, MN

LOCATION.--43°47'05", long 91°01'48", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T.104 N., R.10 W., Fillmore County, Hydrologic Unit 07040008, on right bank at bridge on County Road 21, 2.7 mi. south of Pilot Mound.

DRAINAGE AREA.--565 mi².

PERIOD OF RECORD.--August 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 667.00 ft above sea level (NGVD of 1929). May 28, 1909 to Sept. 30, 1917, nonrecording gage at site 1.3 mi downstream at different datum. May 4, 1929 to Sept. 27, 1933, nonrecording gage and Sept. 28, 1933 to June 26, 1980, recording gage at site 0.9 mi upstream at datum 671.86 ft.

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

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of June, 2000 reached a peak stage of approximately 26 feet.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	113	e105	e107	e79	e1,600	215	164	756	462	368	280
2	111	116	e102	e111	e88	2,420	201	155	657	441	365	272
3	111	121	e109	e107	e101	1,520	190	149	570	430	419	259
4	112	141	e112	e100	e98	747	181	143	498	585	547	250
5	110	138	e115	e93	e107	1,780	175	140	460	500	418	242
6	111	129	115	e91	e105	2,220	170	143	431	1,680	399	271
7	111	121	116	e100	e102	1,760	166	136	407	2,190	355	271
8	111	e119	115	e107	e115	999	161	165	377	1,560	332	244
9	106	e125	e111	e113	e117	572	157	168	3,120	1,150	315	235
10	107	e128	e107	e113	e117	e488	153	187	5,100	962	307	226
11	110	125	e98	e109	e116	e523	149	173	3,220	859	325	219
12	120	124	e94	e108	e114	e365	146	191	6,400	1,240	312	214
13	122	123	e82	e107	e109	e333	143	242	3,840	1,270	296	209
14	119	118	e83	e104	e105	e348	142	376	1,980	918	282	256
15	116	123	e86	e101	e100	e291	140	401	1,480	759	273	7,960
16	116	126	e93	e100	e97	260	138	329	1,540	661	290	16,200
17	115	125	e92	e103	e96	257	137	282	4,300	590	330	3,710
18	116	138	e91	e106	e98	282	143	260	2,320	532	300	1,790
19	115	133	e90	e98	e107	292	162	237	1,560	490	315	1,360
20	115	130	e89	e93	e114	296	168	220	1,270	457	320	1,100
21	115	123	e88	e90	e113	272	179	253	1,120	516	334	929
22	113	120	e89	e87	e111	247	172	558	996	520	309	815
23	115	127	e90	e92	e109	235	162	1,200	863	435	310	729
24	115	e121	e88	e95	e104	230	154	1,390	790	398	365	675
25	116	e115	e87	e98	e102	234	172	1,120	717	367	333	618
26	115	e109	e90	e100	e105	273	185	825	644	346	313	569
27	116	e108	e100	e99	e107	261	193	672	597	331	340	527
28	118	e107	e119	e96	e118	270	190	564	578	320	316	496
29	116	e108	e117	e88	e179	263	182	531	535	332	299	467
30	116	e107	e115	e84	---	246	172	616	494	323	300	447
31	114	---	e108	e79	---	233	---	907	---	324	291	---
TOTAL	3,533	3,661	3,096	3,079	3,133	20,117	4,998	12,897	47,620	21,948	10,378	41,840
MEAN	114	122	99.9	99.3	108	649	167	416	1,587	708	335	1,395
MAX	122	141	119	113	179	2,420	215	1,390	6,400	2,190	547	16,200
MIN	106	107	82	79	79	230	137	136	377	320	273	209
AC-FT	7,010	7,260	6,140	6,110	6,210	39,900	9,910	25,580	94,450	43,530	20,580	82,990
CFSM	0.20	0.22	0.18	0.18	0.19	1.15	0.29	0.74	2.81	1.25	0.59	2.47
IN.	0.23	0.24	0.20	0.20	0.21	1.32	0.33	0.85	3.14	1.45	0.68	2.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	173	158	127	112	122	461	230	550	961	480	235	569
MAX	232	194	155	125	136	649	294	684	1,587	708	335	1,395
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)
MIN	114	122	99.9	99.3	108	273	167	416	335	252	136	114
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	81,962		176,300			
ANNUAL MEAN	225		482		364	
HIGHEST ANNUAL MEAN					482 2004	
LOWEST ANNUAL MEAN					245 2003	
HIGHEST DAILY MEAN	2,090	May 12	16,200	Sep 16	16,200	Sep 16, 2004
LOWEST DAILY MEAN	82	Dec 13	79	Jan 31, Feb 1	a79	Jan 31, 2004
ANNUAL SEVEN-DAY MINIMUM	88	Dec 13	88	Jan 27	88	Jan 27, 2004
MAXIMUM PEAK FLOW			21,900	Sep 16	26,000	Jun 2, 2000
MAXIMUM PEAK STAGE			23.85	Sep 16	25.90	Jun 2, 2000
INSTANTANEOUS LOW FLOW			a79	Jan 31	a79	Jan 31, 2004
ANNUAL RUNOFF (AC-FT)	162,600		349,700		263,400	
ANNUAL RUNOFF (CFSM)	0.397		0.853		0.644	
ANNUAL RUNOFF (INCHES)	5.40		11.61		8.74	
10 PERCENT EXCEEDS	406		972		612	
50 PERCENT EXCEEDS	148		179		190	
90 PERCENT EXCEEDS	109		100		108	

a Estimated minimum daily, backwater from ice, also occurred Feb. 1, 2004

e Estimated.

