

## 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 mi<sup>2</sup>.

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 poor.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of June, 2000 reached a peak stage of 25.90 feet, discharge, 26,000 cubic feet per second, from floodmark.

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	447	376	333	e255	e235	223	932	392	387	356	322	251
2	481	398	326	e245	e233	e225	722	376	373	326	294	238
3	447	405	322	e240	e230	e226	605	363	359	307	277	230
4	436	424	323	e233	225	250	540	346	355	295	262	257
5	420	421	320	e228	e330	476	509	334	355	279	246	260
6	403	410	321	e222	e,700	589	491	333	344	268	234	253
7	389	392	317	e215	1,770	997	481	334	328	253	227	249
8	385	372	323	e210	726	497	477	343	362	244	223	265
9	371	355	339	e206	522	355	473	341	444	235	223	265
10	360	345	387	e203	434	323	459	331	524	226	252	268
11	348	338	430	e200	384	299	441	336	684	218	253	268
12	338	329	457	e197	401	269	485	343	543	210	296	259
13	335	317	450	e189	1,310	244	608	391	489	206	281	267
14	334	311	e411	e183	2,980	250	631	439	457	202	264	282
15	334	304	e429	e181	e2,000	236	560	496	445	200	243	292
16	329	302	e435	e183	e1,050	233	510	479	422	200	229	282
17	320	302	e435	e185	e570	232	504	452	387	194	220	269
18	314	298	e383	e188	e480	240	483	444	363	206	231	258
19	308	310	e230	e190	e400	339	542	733	342	203	246	263
20	304	351	e250	e190	e340	236	839	971	325	197	291	259
21	298	357	e255	e192	e310	237	881	839	319	262	315	250
22	295	365	e260	e195	292	228	803	742	305	310	299	245
23	296	370	e265	e198	273	225	700	666	295	261	266	240
24	294	365	e270	e200	266	228	614	599	284	232	247	238
25	288	355	e275	e203	271	263	565	548	277	328	235	1,510
26	285	347	e283	e206	248	345	538	521	290	1,030	247	4,490
27	283	360	e287	e208	248	885	499	498	330	922	332	2,830
28	284	365	e290	e212	245	2,930	461	475	475	577	342	1,530
29	305	348	e292	e217	---	5,300	432	454	436	454	313	1,230
30	377	320	e285	e222	---	2,700	408	429	394	388	282	1,060
31	364	---	e275	e227	---	1,310	---	407	---	353	264	---
TOTAL	10,772	10,612	10,258	6,423	19,473	21,390	17,193	14,755	11,693	9,942	8,256	18,858
MEAN	347	354	331	207	695	690	573	476	390	321	266	629
MAX	481	424	457	255	2,980	5,300	932	971	684	1,030	342	4,490
MIN	283	298	230	181	225	223	408	331	277	194	220	230
AC-FT	21,370	21,050	20,350	12,740	38,620	42,430	34,100	29,270	23,190	19,720	16,380	37,400
CFSM	0.62	0.63	0.59	0.37	1.23	1.22	1.01	0.84	0.69	0.57	0.47	1.11
IN.	0.71	0.70	0.68	0.42	1.28	1.41	1.13	0.97	0.77	0.65	0.54	1.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	231	223	195	144	311	537	345	525	771	427	246	584
MAX	347	354	331	207	695	690	573	684	1,587	708	335	1,395
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(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)

05383950 ROOT RIVER NEAR PILOT MOUND, MN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	197,652		159,625		388	
ANNUAL MEAN	540		437		245	
HIGHEST ANNUAL MEAN					482	2004
LOWEST ANNUAL MEAN					245	2003
HIGHEST DAILY MEAN	16,200	Sep 16	5,300	Mar 29	16,200	Sep 16, 2004
LOWEST DAILY MEAN	79	Jan 31	181	Jan 15	79	Jan 31, 2004
ANNUAL SEVEN-DAY MINIMUM	88	Jan 27	186	Jan 13	88	Jan 27, 2004
MAXIMUM PEAK FLOW			5,980	Mar 29	21,900	Sep 16, 2004
MAXIMUM PEAK STAGE			15.08	Mar 29	23.85	Sep 16, 2004
INSTANTANEOUS LOW FLOW			180	Mar 3	a79	Jan 31, 2004
ANNUAL RUNOFF (AC-FT)	392,000		316,600		281,200	
ANNUAL RUNOFF (CFSM)	0.956		0.774		0.687	
ANNUAL RUNOFF (INCHES)	13.01		10.51		9.33	
10 PERCENT EXCEEDS	972		606		606	
50 PERCENT EXCEEDS	314		323		250	
90 PERCENT EXCEEDS	107		223		111	

a Estimated minimum daily, backwater from ice.  
 e Estimated.

