

**TABLE 2.2-1  
FREQUENCY DISTRIBUTION OF MISSISSIPPI RIVER FLOWS SCALED TO THE MNGP SITE, 1940-1970<sup>a</sup>**

Percentile (%)	Mississippi River Flow (cfs)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	840	872	907	1,867	2,046	1,664	1,049	810	866	1,084	1,088	978	810
1	893	926	1,202	2,438	2,381	2,227	1,256	993	1,036	1,470	1,463	1,397	1,207
5	1,493	1,373	1,658	3,233	3,797	3,100	1,732	1,441	1,484	1,879	1,930	1,720	1,723
10	1,691	1,720	2,072	4,359	5,294	3,629	2,259	1,687	1,866	2,107	2,183	1,958	2,090
15	1,899	1,955	2,250	5,148	5,973	4,086	2,697	2,010	2,181	2,241	2,398	2,152	2,366
20	2,089	2,113	2,474	5,894	6,482	4,366	3,090	2,306	2,427	2,431	2,671	2,405	2,681
25	2,291	2,259	2,641	6,691	7,000	4,844	3,463	2,663	2,658	2,857	2,938	2,651	2,966
30	2,514	2,354	2,848	7,426	7,440	5,383	3,886	2,947	2,920	3,276	3,154	2,819	3,253
35	2,696	2,587	3,110	8,144	8,007	6,356	4,284	3,170	3,181	3,445	3,429	2,983	3,538
40	2,847	2,700	3,360	9,442	8,583	6,995	4,530	3,451	3,404	3,654	3,564	3,139	3,787
45	2,939	2,893	3,627	10,428	9,179	7,529	4,850	3,705	3,609	3,875	3,753	3,272	4,034
50	3,095	3,036	3,762	11,541	9,879	8,200	5,193	4,043	3,845	4,072	3,972	3,430	4,301
55	3,400	3,292	3,885	12,518	10,454	9,007	5,673	4,297	4,087	4,295	4,189	3,541	4,605
60	3,637	3,637	4,067	13,616	11,277	9,500	6,305	4,565	4,689	4,577	4,375	3,665	5,071
65	3,799	3,769	4,274	14,706	12,229	10,270	6,949	4,804	5,085	5,009	4,555	3,848	5,618
70	3,952	3,877	4,471	16,255	13,737	11,540	7,581	5,129	5,464	5,344	4,819	3,997	6,354
75	4,060	4,031	5,014	17,520	14,783	12,827	8,222	5,635	6,099	5,710	5,206	4,228	7,352
80	4,287	4,238	5,716	19,439	16,291	14,269	9,073	6,331	6,648	6,014	5,575	4,346	8,533
85	4,492	4,779	6,150	21,587	17,411	16,167	9,938	7,425	7,481	6,800	6,289	4,514	10,163
90	4,681	5,150	7,769	24,084	19,944	19,583	11,486	9,055	8,577	8,096	7,019	4,790	13,052
95	5,627	5,445	12,542	29,431	22,497	23,322	16,273	13,140	9,482	11,225	8,075	6,526	17,533
99	7,530	9,769	25,250	45,744	33,010	27,962	22,794	21,879	11,452	16,265	10,982	8,973	26,945
Mean	3,274	3,287	4,792	13,307	11,436	9,768	6,467	4,899	4,570	4,791	4,332	3,561	6,209
Max	8,291	10,987	32,080	54,045	35,755	31,112	26,433	23,956	13,194	17,981	14,359	12,170	54,045
Obs	961	876	961	930	961	930	961	961	930	961	930	961	11,323

a. Source: Table based on USGS historical data (USGS 2004b) scaled by drainage area to the MNGP site.

**TABLE 2.2-2  
FREQUENCY DISTRIBUTION OF MISSISSIPPI RIVER FLOWS SCALED TO THE MNGP SITE, 1971-2001**

Percentile (%)	Mississippi River Flow (cfs)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
0	819	986	1,076	2,459	1,696	911	682	707	586	815	860	624	586
1	970	1,121	1,506	3,270	1,985	1,178	854	930	828	874	1,018	947	946
5	1,810	1,807	2,593	4,832	2,935	2,223	1,779	1,183	2,020	2,489	2,674	2,018	1,954
10	2,078	2,006	3,154	5,871	3,899	2,787	2,288	1,677	2,273	2,962	3,178	2,499	2,595
15	2,564	2,737	3,468	6,552	4,474	3,958	2,886	2,119	2,499	3,137	3,625	2,859	3,044
20	2,896	3,086	3,651	7,087	5,688	4,856	3,826	2,445	2,726	3,276	3,950	3,023	3,429
25	3,343	3,271	3,877	7,765	6,518	5,297	4,297	2,708	2,983	3,415	4,515	3,343	3,791
30	3,536	3,462	4,280	8,478	7,354	5,657	4,834	2,996	3,252	3,575	5,040	3,913	4,166
35	3,857	3,703	4,577	9,247	8,197	6,058	5,151	3,316	3,600	3,864	5,321	4,270	4,526
40	4,176	3,806	4,994	10,279	9,041	6,552	5,667	3,754	3,867	4,109	5,734	4,670	4,847
45	4,320	3,928	5,266	11,108	9,802	7,210	6,167	4,279	4,154	4,486	6,134	4,865	5,194
50	4,474	4,114	5,503	11,943	10,812	7,724	6,658	4,587	4,398	5,215	6,541	5,105	5,575
55	4,628	4,268	5,832	12,754	11,931	8,444	7,056	4,893	4,598	5,766	6,866	5,374	5,966
60	4,769	4,432	6,150	13,613	12,987	9,255	7,704	5,165	4,827	6,058	7,179	5,723	6,419
65	4,937	4,559	6,468	14,811	14,181	9,936	8,359	5,494	5,030	6,430	7,487	5,873	6,973
70	5,143	4,625	6,788	16,045	15,499	10,726	9,154	5,960	5,190	7,037	7,746	6,120	7,726
75	5,279	4,988	7,570	18,514	16,868	11,828	10,210	6,418	5,852	7,776	8,218	6,383	8,720
80	5,496	5,262	9,021	20,117	18,102	12,843	11,276	7,210	6,953	9,072	8,660	6,702	10,008
85	5,760	5,554	10,153	22,276	19,542	13,658	12,240	8,413	8,570	11,054	9,180	7,080	11,622
90	6,043	5,863	11,879	25,508	22,230	14,908	13,902	9,822	9,915	12,596	10,183	7,548	14,019
95	6,487	6,038	16,835	33,736	27,154	16,990	16,265	11,108	11,442	15,608	12,034	8,403	18,308
99	7,110	9,743	22,104	43,198	34,870	29,204	21,274	17,586	22,544	21,393	18,738	10,203	29,670
Mean	4,284	4,135	6,674	14,140	12,304	8,759	7,622	5,155	5,224	6,455	6,715	5,055	7,217
Max	7,649	11,315	25,403	46,387	41,167	31,370	35,172	26,655	28,711	25,766	22,151	11,747	46,387
Obs	961	876	961	930	961	930	961	961	930	961	930	961	11,323

a. Source: Table based on USGS historical data (USGS 2004b) scaled by drainage area to the MNGP site.

**TABLE 2.2-3  
MONTHLY AVERAGE MISSISSIPPI RIVER FLOWS BASED ON DAILY  
DATA SCALED TO THE MNGP SITE, 1971-2001<sup>a</sup>**

Year	Mississippi River Flow (cfs)												Annual
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1971	3,400	3,330	4,597	19,188	11,825	7,328	5,035	2,549	2,485	5,508	17,356	7,965	7,537
1972	6,641	5,665	11,526	18,381	16,993	8,575	12,492	16,523	8,971	7,355	9,432	5,306	10,689
1973	5,317	4,346	13,094	8,704	8,980	6,472	3,628	5,923	4,348	12,671	9,160	5,787	7,396
1974	4,725	4,447	5,667	14,109	16,561	14,286	5,634	5,078	2,782	2,820	5,548	3,962	7,135
1975	3,945	4,468	4,654	17,875	25,074	11,588	14,180	5,260	4,943	4,512	5,062	4,906	8,898
1976	4,339	4,684	7,533	13,308	4,081	2,353	2,031	1,111	853	920	1,113	1,006	3,594
1977	1,029	1,195	2,888	3,631	2,343	2,671	2,539	1,427	4,572	6,949	7,800	7,100	3,688
1978	4,547	3,456	4,802	16,632	8,089	9,321	12,392	7,403	9,213	6,057	4,655	3,654	7,525
1979	3,253	3,155	4,513	21,180	21,348	11,883	11,002	5,414	4,463	3,446	7,998	4,453	8,521
1980	3,856	3,885	4,613	10,879	4,213	4,544	2,279	2,423	4,674	3,575	3,551	2,547	4,238
1981	2,135	2,018	2,701	5,443	6,786	7,397	5,794	5,079	3,849	7,903	7,135	4,127	5,045
1982	3,745	3,806	4,037	23,051	18,791	9,248	5,983	3,224	3,686	10,592	7,979	7,407	8,473
1983	6,143	5,161	12,220	10,690	6,701	8,752	10,661	5,225	4,424	5,813	6,280	6,005	7,355
1984	5,528	6,798	8,279	11,778	11,545	17,817	7,305	3,095	2,740	9,949	9,075	5,734	8,294
1985	4,904	4,051	9,540	12,048	17,194	13,070	12,419	8,832	11,157	11,717	7,258	7,039	9,974
1986	6,507	5,755	6,727	25,916	27,772	12,834	9,940	9,734	17,058	14,706	8,448	7,050	12,724
1987	5,683	5,442	6,841	6,538	5,540	5,913	2,996	3,870	2,935	3,418	3,560	3,032	4,640
1988	2,420	2,642	4,413	7,154	3,742	1,437	880	2,445	7,570	3,782	3,037	2,900	3,529
1989	2,867	3,034	3,970	16,213	10,893	6,008	4,042	1,578	4,456	3,694	3,235	2,453	5,197
1990	2,048	1,867	7,773	6,764	9,153	10,384	4,907	2,161	2,363	4,296	4,060	2,376	4,859
1991	1,982	1,985	4,148	9,357	12,833	6,980	7,412	3,465	4,516	3,243	5,308	5,343	5,566
1992	4,756	3,665	6,948	8,760	6,387	3,850	5,713	2,572	4,202	3,195	3,672	2,948	4,727
1993	3,447	3,299	4,014	11,081	11,061	13,098	17,306	9,338	7,422	6,043	6,416	5,512	8,195
1994	5,259	5,064	9,102	16,100	14,241	7,822	10,349	5,588	5,125	8,059	7,027	5,404	8,280
1995	4,696	3,982	10,901	12,360	12,562	6,013	7,158	6,611	5,955	16,124	9,951	6,337	8,592
1996	5,461	5,691	8,436	19,435	17,744	8,115	6,973	4,784	2,673	4,489	8,341	7,646	8,323

**TABLE 2.2-3 (CONTINUED)**  
**MONTHLY AVERAGE MISSISSIPPI RIVER FLOWS BASED ON DAILY**  
**DATA SCALED TO THE MNGP SITE, 1971-2001<sup>a</sup>**

Year	MISSISSIPPI RIVER FLOW (CFS)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1997	5,776	5,962	6,358	30,444	12,709	6,012	12,687	7,679	5,092	6,234	6,011	5,630	9,214
1998	4,311	5,783	7,042	9,650	5,814	9,673	9,113	3,626	2,372	5,772	7,833	6,906	6,487
1999	4,398	4,270	6,208	14,797	20,155	11,241	10,134	9,964	10,042	8,402	7,075	5,261	9,354
2000	4,678	4,563	8,363	6,309	7,637	5,959	6,233	3,297	3,084	3,908	9,574	5,375	5,753
2001	4,996	4,569	4,984	30,561	22,651	20,893	7,057	4,518	3,912	4,949	5,232	5,531	9,976
Min	1,029	1,195	2,701	3,631	2,343	1,437	880	1,111	853	920	1,113	1,006	3,529
Max	6,641	6,798	13,094	30,561	27,772	20,893	17,306	16,523	17,058	16,124	17,356	7,965	12,724
Mean	4,284	4,135	6,674	14,140	12,304	8,759	7,622	5,155	5,224	6,455	6,715	5,055	7,217

a. Source: Table based on USGS historical data (USGS 2004b) scaled by drainage area to the MNGP site.

**TABLE 2.2-4  
STAGE-DISCHARGE RELATIONSHIP FOR THE MISSISSIPPI RIVER AT THE MNGP SITE**

Elevation (ft)	Flow (cfs) for Elevation (ft)									
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
902	122	150	182	217	256	298	343	392	445	501
903	561	624	691	762	837	916	998	1,085	1,175	1,270
904	1,368	1,470	1,576	1,687	1,801	1,920	2,043	2,170	2,301	2,436
905	2,576	2,719	2,868	3,020	3,177	3,338	3,503	3,673	3,847	4,025
906	4,208	4,396	4,587	4,784	4,985	5,190	5,400	5,614	5,833	6,057
907	6,285	6,518	6,755	6,997	7,244	7,495	7,751	8,012	8,277	8,547
908	8,822	9,102	9,386	9,675	9,969	10,268	10,572	10,880	11,194	11,512
909	11,835	12,163	12,495	12,833	13,176	13,523	13,876	14,233	14,596	14,963
910	15,335	15,713	16,095	16,482	16,875	17,272	17,675	18,082	18,495	18,913
911	19,336	19,764	20,197	20,635	21,078	21,527	21,980	22,439	22,903	23,372
912	23,846	24,326	24,811	25,301	25,796	26,296	26,802	27,313	27,829	28,351
913	28,877	29,410	29,947	30,490	31,038	31,591	32,150	32,714	33,283	33,858
914	34,438	35,023	35,614	36,210	36,812	37,419	38,032	38,650	39,273	39,902
915	40,536	41,176	41,821	42,472	43,128	43,789	44,457	45,129	45,807	46,491
916	47,180	47,875	48,575	49,281	49,993	50,710	51,432	52,160	52,894	53,633
917	54,378	55,129	55,885	56,646	57,414	58,187	58,965	59,750	60,540	61,335

Note: Flow (cfs) =  $122 \times h^{2.2}$  where h is height above 901 ft MSL (h = elevation – 901). Flows in table generated by applying the formula to a range of elevations.

**TABLE 2.2-5  
INDUSTRIAL AND MUNICIPAL USAGE OF THE MISSISSIPPI RIVER BASED  
ON MNDNR WATER ALLOCATION PERMITS**

Permittee	Permit Number	Use	County	Mississippi Water Usage (MGY)								
				1994	1995	1996	1997	1998	1999	2000	2001	2002
Blandin Paper Co	752147	1	Itasca	6,020	6,996	7,440	7,795	7,800	7,827	7,985	7,041	6,350
MN Dept of Natural Resources	902135	1	Itasca	4.9	4.9		4.9			4.9		
Minnesota Paper Co LLC	753228	1	Crow Wing	985	1,093	1,180	1,257	1,396	1,391	1,206	1,201	389
Cuyuna Range Conser. Club	620023	1	Crow Wing	47.1	30	30.1		20.7	17.9	26.1		25
International Paper Co	803043	1	Benton	3,325	3,376	3,495	3,381	3,311	3,409	3,493	3,482	3,534
St. Cloud, City of	803102	1	Stearns	5,230	2,108	2,276	2,290	2,496	2,490	2,658	2,714	2,583
St. Paul, City of	756230	2	Anoka	12,902	12,136	14,776	12,599	15,667	14,100	13,761	11,824	12,200
Minneapolis, City of	786216	2	Anoka	24,818	24,572	25,550	23,847	24,629	23,863	24,844	26,058	23,431
Brooklyn Center, City of	630160	2	Hennepin				62.5					
Westway Terminal Co, Inc	6082	1	Ramsey							1.5		
Ford Motor Co	756240	1	Ramsey	235.4	215.2	171	236.6	213.3	246.9	231.7	195.5	161.9
Aggregate Industries-NCR Inc	26042	1	Washington									6.1
Aggregate Industries-NCR Inc	6135	1	Washington							643.2	564.5	360
Total Usage (MGY)				53,567	50,530	54,917	51,472	55,532	53,344	54,854	53,081	49,039
Consumptive Use (MGY)				8,035	7,580	8,238	7,721	8,330	8,002	8,228	7,962	7,356
Consumptive Use (cfs)				34.1	32.1	34.9	32.7	35.3	33.9	34.9	33.7	31.2

cfs = cubic feet per second  
 mgy = million gallons per year  
 Usage: 1 = Industrial, 2 = Municipal

**TABLE 2.2-6  
AGRICULTURAL USAGE OF MISSISSIPPI RIVER WATER BY COUNTY BASED ON  
MNDNR WATER ALLOCATION PERMITS**

County	No. of Permits	Mississippi Water Usage (MGY)										
		1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Aitkin	13	1,195.2	990.5	773.5	757.4	952.6	831	1,130.8	874.4	642.8	309.4	589.1
Anoka	5	7.8	0.6	6.2	6	7.9	5.1	14.6	14.9	35.2	16.1	7.6
Benton	2	0	0	0	0	0	0	0	0	0	0	2.3
Cass	2	9.5	0	5	4	8.7	0	0	0	0	0	0
Crow Wing	2	57.4	44.8	57.5	28	29	32	70.2	54.1	60.7	45.8	29.8
Dakota	12	33.8	0.1	46.1	53.1	78.3	13.9	30.7	36.7	64.6	70.6	41.2
Hennepin	3	0	0	0	0	0	0	0.5	0	0	0	0
Itasca	12	114.8	70.7	73.9	82.9	78.6	77.9	82.1	77.5	24.7	75	80.9
Morrison	12	39.5	22.8	36	38.1	67.1	45.7	60.4	40	49.7	52	20.1
Sherburne	21	63.1	18.4	73.7	107.9	76.7	60.2	74.2	33.4	58.5	71.5	10
Stearns	15	55.2	36.4	48.9	38.7	62.9	39	54	98.7	66	145.7	26.3
Wright	6	2.3	0	1.7	1.5	4	5.4	1.3	7.6	4	7	3.3
Total Usage (MGY)		1,579	1,184	1,123	1,118	1,366	1,110	1,519	1,237	1,006	793	811
Total Usage (mgd)		4.3	3.2	3.1	3.1	3.7	3.0	4.2	3.4	2.8	2.2	2.2
Total Usage (cfs)		6.7	5.0	4.8	4.7	5.8	4.7	6.4	5.2	4.3	3.4	3.4

cfs= cubic feet per second  
mgd = million gallons per day  
mgy = million gallons per year

**TABLE 2.2-7  
POWER PLANT USAGE OF MISSISSIPPI RIVER WATER BASED ON  
MNDNR WATER ALLOCATION PERMITS**

Power Plant	Permit Number	Mississippi River Water Usage (MGY)										
		1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Black Dog	610270	47,461	60,942	63,533	62,706	51,495	45,748	63,002	62,549	62,298	43,718	57,053
Riverside	620457	34,326	35,529	35,629	35,270	42,564	40,159	42,608	46,052	42,126	47,254	44,608
Riverside	766345	15,997	21,613	24,889	23,531	20,063	22,972	33,403	26,941	31,804	27,784	31,250
combined		50,323	57,142	60,518	58,801	62,626	63,131	76,011	72,993	73,930	75,038	75,858
High Bridge	766347	29,939	27,510	36,875	34,248	34,697	41,608	52,729	44,131	48,009	48,125	49,568
Elk River	590225	16,226	17,499	16,305	15,822	13,455	12,983	14,033	12,899	13,884	12,838	11,280
Sherco	710938	8,050	7,592	7,747	7,425	7,254	7,430	8,045	7,609	7,852	7,376	7,701
MNGP	661172	143,449	118,654	113,494	123,243	111,824	104,278	122,821	126,736	117,723	107,418	125,015

  

Power Plant	Consumptive Use (%)	Consumptive Use (cfs)										
		1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Black Dog	1	2.0	2.6	2.7	2.7	2.2	1.9	2.7	2.7	2.6	1.9	2.4
Riverside	1	2.1	2.4	2.6	2.5	2.7	2.7	3.2	3.1	3.1	3.2	3.2
High Bridge	1	1.3	1.2	1.6	1.5	1.5	1.8	2.2	1.9	2.0	2.0	2.1
Elk River	1	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.6	0.5	0.5
Sherco	90	30.7	29.0	29.6	28.3	27.7	28.3	30.7	29.0	30.0	28.1	29.4
MNGP	2	12.2	10.1	9.6	10.4	9.5	8.8	10.4	10.7	10.0	9.1	10.6
Total		49.0	45.9	46.7	46.0	44.0	44.1	49.8	47.9	48.3	44.9	48.2



**TABLE 2.2-8  
 POWER PLANTS UPSTREAM OF THE ST. CROIX RIVER CONFLUENCE  
 WITH WATER ALLOCATION PERMITS**

<b>Power Plant</b>	<b>Company</b>	<b>County</b>	<b>River</b>	<b>Mississippi River Mile</b>
Black Dog	NSP Co., Xcel Energy	Dakota	Minnesota River	844 <sup>a</sup>
Riverside	NSP Co., Xcel Energy	Hennepin	Mississippi River	857
High Bridge	NSP Co., Xcel Energy	Ramsey	Mississippi River	841
Elk River	Great River Energy	Sherburne	Mississippi River	884.5
Sherco	NSP Co., Xcel Energy	Sherburne	Mississippi River	904.8
MNGP	NSP Co., Xcel Energy	Wright	Mississippi River	900

a. River mile where Minnesota River enters the Mississippi River.

**TABLE 2.2-9  
WEEKLY AND MONTHLY AVERAGE GROUNDWATER ELEVATIONS  
AT TWO ON-SITE WELLS, 1990-1995**

Date	Groundwater Elevation (ft)				Date	Groundwater Elevation (ft)			
	Weekly		Monthly			Weekly		Monthly	
	Well 1	Well 2	Well 1	Well 2		Well 1	Well 2	Well 1	Well 2
3-Jul-90	906.5	907.3			12-Jan-93	906.5	907.5		
13-Jul-90	906.5	907.3			26-Jan-93	907.0	907.5	906.75	907.50
20-Jul-90	906.8	907.1			4-Mar-93	907.0	907.4		
27-Jul-90	906.2	907.0	906.49	907.18	15-Mar-93	906.8	907.3		
3-Aug-90	906.5	907.2			18-Mar-93	905.7	908.2		
10-Aug-90	906.3	907.0			25-Mar-93	906.1	906.7		
17-Aug-90	907.2	907.0			29-Mar-93	906.5	907.0	906.42	907.32
23-Aug-90	907.5	907.7			14-Jul-93	909.2	910.1		
31-Aug-90	906.5	907.0	906.81	907.17	20-Jul-93	911.3	910.2		
12-Oct-90	907.0	907.2			27-Jul-93	911.2	910.4	910.57	910.23
19-Oct-90	905.0	907.5			9-Aug-93	911.4	910.0		
25-Oct-90	906.8	906.7	906.27	907.13	18-Aug-93	911.8	909.7		
4-Jan-91	906.5	907.0			24-Aug-93	911.2	909.7	911.47	909.80
11-Jan-91	906.5	907.1			5-Oct-93	911.5	909.9		
18-Jan-91	906.5	907.0			13-Oct-93	909.5	910.0		
25-Jan-91	906.5	907.0	906.50	907.03	18-Oct-93	910.2	909.8		
13-Mar-91	906.5	906.9			27-Oct-93	910.0	910.0	910.30	909.93
20-Mar-91	906.5	907.0			12-Jan-94	909.4	909.4		
26-Mar-91	906.3	907.3	906.42	907.05	21-Jan-94	910.0	910.0		
12-Jul-91	907.0	909.6			26-Jan-94	911.2	910.0	910.20	909.80
19-Jul-91	908.9	909.4			3-Mar-94	910.0	909.9		
26-Jul-91	905.8	909.3	907.22	909.42	8-Mar-94	909.8	909.7		
2-Aug-91	909.2	909.3			17-Mar-94	908.5	911.5		
9-Aug-91	909.4	908.9			31-Mar-94	909.8	910.2	909.53	910.33
15-Aug-91	909.0	909.3			6-Jul-94	910.3	910.5		
23-Aug-91	909.1	909.3			14-Jul-94	911.0	910.5		
29-Aug-91	907.8	910.7	908.90	909.48	27-Jul-94	910.3	910.3	910.53	910.43
2-Oct-91	910.2	910.0			2-Aug-94	910.2	909.8		
10-Oct-91	910.5	910.2			8-Aug-94	910.0	909.7		

**TABLE 2.2-9 (CONTINUED)  
WEEKLY AND MONTHLY AVERAGE GROUNDWATER ELEVATIONS  
AT TWO ON-SITE WELLS, 1990-1995**

Date	Groundwater Elevation (ft)				Date	Groundwater Elevation (ft)			
	Weekly		Monthly			Weekly		Monthly	
	Well 1	Well 2	Well 1	Well 2		Well 1	Well 2	Well 1	Well 2
17-Oct-91	910.0	909.8			18-Aug-94	908.2	909.3		
24-Oct-91	910.5	910.3			25-Aug-94	909.5	909.5	909.48	909.58
31-Oct-91	910.5	910.0	910.34	910.04	1-Sep-94	907.5	909.9		
9-Jan-92	908.0	911.0			3-Oct-94	910.0	909.3		
13-Jan-92	909.2	909.3			10-Oct-94	910.2	909.3		
20-Jan-92	909.0	908.5			17-Oct-94	909.5	909.0		
31-Jan-92	908.3	909.1	908.63	909.48	24-Oct-94	909.8	909.5	909.88	909.28
4-Mar-92	908.2	908.5			6-Jan-95	909.0	908.5		
13-Mar-92	907.5	910.0			11-Jan-95	908.9	908.7		
27-Mar-92	907.3	909.8	907.67	909.43	16-Jan-95	908.5	908.5		
13-Jul-92	908.4	909.7			26-Jan-95	907.0	910.4	908.35	909.03
23-Jul-92	908.2	908.6			8-Mar-95	908.8	908.0		
29-Jul-92	908.0	908.5	908.20	908.93	15-Mar-95	908.5	908.3		
4-Aug-92	907.2	907.8			23-Mar-95	909.3	909.0		
10-Aug-92	907.5	907.5			29-Mar-95	909.2	909.2	908.95	908.63
18-Aug-92	907.0	907.5			6-Jul-95	907.8	907.6		
26-Aug-92	907.5	907.8	907.30	907.65	11-Jul-95	909.1	908.4		
3-Sep-92	907.7	908.2			21-Jul-95	908.8	908.3		
12-Oct-92	906.3	909.2			28-Jul-95	908.5	908.3	908.55	908.15
19-Oct-92	907.6	907.9			2-Aug-95	908.8	908.2		
27-Oct-92	907.8	907.9	907.23	908.33	11-Aug-95	909.0	908.0	908.90	908.10

**TABLE 2.2-10  
APPROPRIATION PERMITS FOR GROUNDWATER WELLS IN WRIGHT COUNTY  
WITHIN A 5-MILE RADIUS OF THE MNGP SITE**

Permit Number	Name	Use <sup>a</sup>	No Wells	Allocated		Reported Pumping (MGY)							
				gpm	MGY	1995	1996	1997	1998	1999	2000	2001	2002
<b>MNGP Site</b>													
670083	NSP Co d/b/a Xcel Energy	226	2	200	15	12.0	10.2	9.9	13.6	12.4	12.6	10.2	13.1
<b>2-Mile Radius</b>													
640152	Monticello, City of	290	1	800	41	16.3	15.9	10.9	18.5	12.8	29.9	31.2	21.9
650110	Fairs Garden Center	290	3	1650	58	31.5	31.5	31.5	31.5	31.5	25.0	29.9	7.0
773451	Scherber, Gary & R	212	2	100	4	3.7	3.7	2.6	4.2	5.6	5.6	5.4	5.0
783268	Paumen, Bradley & Brian	290	1	400	9.8	8.4	5.4	10.8	8.7	5.0	9.8	9.7	6.2
783269	Paumen, Bradley & Brian	290	1	600	12.4	12.6	9.2	6.6	1.9	5.5	6.7	7.6	9.2
903409	Lanners, Quinton	290	1	350	14.6	5.3	8.2	5.0	4.4	5.8	7.5	9.7	2.5
973194	Paumen, Bradley	290	1	800	46.7	0.0	0.0	26.4	22.3	28.7	30.6	24.1	18.8
	Total				186.5	77.8	73.9	93.8	91.5	94.9	115.1	117.6	70.6
<b>5-mile Radius</b>													
3181	Holthaus, Joseph	290	1	700	35	0.0	0.0	0.0	0.0	0.0	12.1	20.6	6.3
641059	Monticello, City of	211	4	5427	570	317.5	355.4	407.3	429.0	406.0	499.8	514.0	450.1
883272	Monticello Country Club	281	2	550	35	20.0	30.5	27.3	29.7	19.7	32.4	28.2	14.8
893388	Holthaus, Joseph	290	1	770	76	36.4	32.9	20.8	24.3	21.7	27.6	37.6	10.9
903297	Lanners, Greg	290	1	275	7.3	4.0	4.7	3.6	2.4	2.6	4.8	5.6	1.5
903396	Spike, David	290	1	650	28	13.0	8.7	18.0	20.0	11.8	27.0	27.1	20.7

**TABLE 2.2-10 (CONTINUED)  
APPROPRIATION PERMITS FOR GROUNDWATER WELLS IN WRIGHT COUNTY  
WITHIN A 5-MILE RADIUS OF THE MNGP SITE**

Permit Number	Name	Use <sup>a</sup>	No Wells	Allocated		Reported Pumping (MGY)							
				gpm	MGY	1995	1996	1997	1998	1999	2000	2001	2002
923038	Schluender, Gary	290	1	400	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
933050	Kjellbergs Inc	212	3	630	5	0.0	0.0	0.0	0.0	0.0	7.7	7.7	7.7
933050	Kjellbergs Inc	212	1	630	5	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4
933161	Kjellbergs Inc	213	3	300	10	7.0	7.0	7.0	7.0	7.0	19.3	19.3	19.3
953254	Monticello Driving Range & Golf	281	1	85	3.6	0.0	3.4	3.3	3.4	0.0	2.9	1.9	2.1
Total					804.1	401.2	445.9	490.6	519.1	472.1	637.0	665.4	536.8

a. Use Codes: 211 Municipal  
212 Private Waterworks  
213 Commercial  
226 Nuclear Power Plant  
281 Golf Course  
290 Major Crop Irrigation

**TABLE 2.3-1  
 FISH SPECIES DOCUMENTED IN THE UPPER MISSISSIPPI RIVER  
 NEAR MNGP: NORTHERN STATES POWER (NSP) ANNUAL  
 ELECTROFISHING AND SEINE SURVEYS<sup>a</sup>**

Family	Common Name	Scientific Name
Amiidae (bowfins)	Bowfin	<i>Amia calva</i>
Cyprinidae (carps and minnows)	Common carp	<i>Cyprinus carpio</i>
	Central stoneroller	<i>Campostoma anomalum</i>
	Hornyhead chub	<i>Nocomis biguttatus</i>
	Creek chub	<i>Semotilus atromaculatus</i>
	Fathead minnow	<i>Pimephales promelas</i>
	Bluntnose minnow	<i>Pimephales notatus</i>
	Brassy minnow	<i>Hybognathus hankinsoni</i>
	Spotfin shiner	<i>Cyprinella spiloptera</i>
	Bigmouth shiner	<i>Notropis dorsalis</i>
	Sand shiner	<i>Notropis stramineus</i>
	River shiner	<i>Notropis blennioides</i>
	Spottail shiner	<i>Notropis hudsonius</i>
	Mimic shiner	<i>Notropis volucellus</i>
	Common shiner	<i>Luxilus cornutus</i>
	Golden shiner	<i>Notemigonus crysoleucas</i>
	Longnose dace	<i>Rhinichthys cataractae</i>
	Blacknose dace	<i>Rhinichthys atratulus</i>
	Shorthead redhorse	<i>Moxostoma macrolepidotum</i>
	Silver redhorse	<i>Moxostoma anisurum</i>
	Greater redhorse	<i>Moxostoma valenciennesi</i>
White sucker	<i>Catostomus commersoni</i>	
Bigmouth buffalo	<i>Ictiobus cyprinellus</i>	
Northern hogsucker	<i>Hypentelium nigricans</i>	
Ictaluridae (bullhead catfishes)	Channel catfish	<i>Ictalurus punctatus</i>
	Flathead catfish	<i>Pylodictis olivaris</i>
	Black bullhead	<i>Ameiurus melas</i>
	Yellow bullhead	<i>Ameiurus natalis</i>
	Brown bullhead	<i>Ameiurus nebulosus</i>

**TABLE 2.3-1 (CONTINUED)**  
**FISH SPECIES DOCUMENTED IN THE UPPER MISSISSIPPI RIVER**  
**NEAR MNGP: NORTHERN STATES POWER (NSP) ANNUAL**  
**ELECTROFISHING AND SEINE SURVEYS<sup>a</sup>**

Family	Common Name	Scientific Name
Esocidae (pikes)	Northern pike	<i>Esox lucius</i>
	Muskellunge	<i>Esox masquinongy</i>
Salmonidae (trouts)	Cisco	<i>Coregonus artedi</i>
Percopsidae (trout-perches)	Trout perch	<i>Percopsis omiscomaycus</i>
Gadidae (cods)	Burbot	<i>Lota lota</i>
Atherinidae (silversides)	Brook silverside	<i>Labidesthes sicculus</i>
Gasterosteidae	Brook stickleback	<i>Culaea inconstans</i>
Centrarchidae (sunfishes)	Smallmouth bass	<i>Micropterus dolomieu</i>
	Largemouth bass	<i>Micropterus salmoides</i>
	Rock bass	<i>Ambloplites rupestris</i>
	Bluegill	<i>Lepomis macrochirus</i>
	Pumpkinseed	<i>Lepomis gibbosus</i>
	Green sunfish	<i>Lepomis cyanellus</i>
	Black crappie	<i>Pomoxis nigromaculatus</i>
	White crappie	<i>Pomoxis annularis</i>
Percidae (perches)	Logperch	<i>Percina caprodes</i>
	Blackside darter	<i>Percina maculata</i>
	Johnny darter	<i>Etheostoma nigrum</i>
	Walleye	<i>Stizostedion vitreum</i>
	Yellow perch	<i>Perca flavescens</i>

a. Source: NSP 1999a,b.

**TABLE 2.3-2  
 STATE OF MINNESOTA IDENTIFIED NATURAL COMMUNITIES IN  
 THE VICINITY OF THE TRANSMISSION CORRIDORS<sup>a</sup>**

General Location	Communities	Site Biodiversity Significance
<b>Wright County</b>		
Immediately South of MNGP – ROW passes through area	Dry Prairie	High
<b>Sherburne County</b>		
Approximately 3 miles northeast of MNGP and south of the Thompson Lake Area – ROW adjacent to southernmost edge of area	Oak Forest Alder Swamp Rich Fen Dry Oak Savanna	Moderate
Approximately 4 miles northwest of City of Elk River – ROW adjacent to southwest corner of area	Oak Forest Mixed Hardwood Swamp Alder Swamp Tamarack Swamp Willow Swamp	High
Approximately 1 mile northeast of City of Elk River – ROW adjacent to northern boundary of area	Oak Forest	Moderate
<b>Anoka County</b>		
Approximately 3.5 miles southwest of Andover and immediately west of Bunker Hills Regional Park – ROW runs through area	Oak Forest Dry Oak Savanna	Outstanding
Approximately 1 mile south of Andover along State Highway 78 – ROW is adjacent to area	Dry Oak Savanna Dry Prairie	High
<b>Hennepin County</b>		
Approximately .5 miles north of intersection of I-494 and Highway 9 in Plymouth – ROW adjacent to area	Maple-Basswood Forest	High

a. Source: Hoffmann 2004.  
 NA = Not applicable



**TABLE 2.3-3  
 THREATENED AND ENDANGERED SPECIES OCCURRING IN THE VICINITY  
 OF MNGP AND THE ASSOCIATED TRANSMISSION CORRIDORS<sup>a</sup>**

Common Name	Scientific Name	Status <sup>b</sup>	
		Minnesota	U.S.
<b>Birds</b>			
Bald Eagle	<i>Haliaeetus leucocephalus</i>	SPC	T
Loggerhead Shrike	<i>Lanius ludovicianus</i>	T	
Peregrine Falcon	<i>Falco peregrinus</i>	T	
Trumpeter Swan	<i>Cygnus buccinator</i>	T	
<b>Reptile</b>			
Blanding's turtle	<i>Emydoidea blandingii</i>	T	
<b>Insects</b>			
Uncas Skipper	<i>Hesperia uncas</i>	E	
<b>Plants</b>			
Tall Nut-rush	<i>Scleria triglomerata</i>	E	
<p>a. Based on occurrences reported by the MNDNR in the Minnesota Natural Heritage database (Hoffmann 2004).</p> <p>b. E = Endangered, T = Threatened, SPC = Species of concern.</p>			

**TABLE 2.5-1  
 ESTIMATED POPULATIONS AND ANNUAL GROWTH RATES IN  
 WRIGHT AND SHERBURNE COUNTIES FROM 1970 TO 2040**

Year	Wright		Sherburne	
	Population <sup>a</sup>	Percent <sup>b</sup>	Population <sup>a</sup>	Percent <sup>b</sup>
1970	38,933	--	18,344	--
1980	58,681	4.19	29,908	5.01
1990	68,710	1.59	41,945	3.44
2000	89,986	2.73	64,417	4.38
2010	109,700	2.00	86,320	2.97
2020	126,420	1.43	105,620	2.04
2030	139,020	0.95	121,920	1.45
2040	152,876	0.95	140,736	1.45

a. Source: Years 1970 through 1990, Census 1995; Year 2000, Census 2000b,c DP-1; Years 2010 through 2030, MDA 2004; Year 2040 is a projection using previous decade's rate of growth.

b. Annual percent growth rate calculated using the equation  $N[t] = N[o] (1+r)^t$  where N is population, t is time in years, and r is the annual growth rate expressed as a decimal.

**TABLE 2.5-2  
 NUMBER OF CENSUS BLOCKS WITH MINORITY AND LOW-INCOME POPULATIONS  
 WITHIN THE 50-MILE RADIUS OF MNGP**

State	County	Black or African American	American Indian and Alaska Native	Asian	Native Hawaiian and Other Pacific Islander	Other Single Minority	Two or More Races	Hispanic	Aggregate Minority	Low Income
	<b>Regional Percent<sup>a</sup></b>	<b>3.5</b>	<b>1.10</b>	<b>2.90</b>	<b>0.04</b>	<b>1.30</b>	<b>1.70</b>	<b>2.90</b>	<b>11.8</b>	<b>7.9</b>
	<b>Threshold for Minority Population<sup>b</sup></b>	<b>23.5</b>	<b>21.1</b>	<b>22.9</b>	<b>20.0</b>	<b>21.3</b>	<b>21.7</b>	<b>22.9</b>	<b>31.8</b>	<b>27.9</b>
MN	Anoka	0	0	0	0	0	0	0	0	0
MN	Benton	0	0	0	0	0	0	0	0	0
MN	Carver	1	0	0	0	0	0	1	1	0
MN	Chisago	0	0	0	0	0	0	0	0	0
MN	Dakota	0	0	0	0	0	0	0	0	0
MN	Hennepin	123	3	7	0	5	1	36	211	61
MN	Isanti	0	0	0	0	0	0	0	0	0
MN	Kanabec	0	0	0	0	0	0	0	0	0
MN	Kandiyohi	0	0	0	0	0	0	0	0	0
MN	McLeod	0	0	0	0	0	0	0	0	0
MN	Meeker	0	0	0	0	0	0	0	0	0
MN	Mille Lacs	0	0	0	0	0	0	0	0	0
MN	Morrison	0	0	0	0	0	0	0	0	0
MN	Pine	0	0	0	0	0	0	0	0	0
MN	Ramsey	25	0	39	0	5	0	14	112	23

**TABLE 2.5-2 (CONTINUED)  
 NUMBER OF CENSUS BLOCKS WITH MINORITY AND LOW-INCOME POPULATIONS  
 WITHIN THE 50-MILE RADIUS OF MNGP**

		Black or African American	American Indian and Alaska Native	Asian	Native Hawaiian and Other Pacific Islander	Other Single Minority	Two or More Races	Hispanic	Aggregate Minority	Low Income
Regional Percent <sup>a</sup>		3.5	1.10	2.90	0.04	1.30	1.70	2.90	11.8	7.9
Threshold for Minority Population <sup>b</sup>		23.5	21.1	22.9	20.0	21.3	21.7	22.9	31.8	27.9
<b>State</b>										
MN	Scott	0	0	0	0	1	0	1	1	0
MN	Sherburne	0	0	0	0	0	0	0	0	1
MN	Sibley	0	0	0	0	0	0	0	0	0
MN	Stearns	0	0	0	0	0	0	0	0	6
MN	Washington	0	0	0	0	0	0	0	0	0
MN	Wright	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>149</b>	<b>3</b>	<b>46</b>	<b>0</b>	<b>11</b>	<b>1</b>	<b>52</b>	<b>325</b>	<b>91</b>

Source: Census 2000 Summary Files 1 (SF1) and 3 (SF3) for Minnesota (Census 2001c; Census 2002).

a. Regional percent calculated using the summary data from each county with at least one block group located within the 50-mile radius.

b. At least 20 percentage points greater than the regional percent.

**TABLE 2.6-1  
 TOTAL EMPLOYMENT BY SECTOR OF WRIGHT AND SHERBURNE COUNTIES<sup>a</sup>**

Industry	Wright County		Sherburne County	
	1990	2000	1990	2000
Agriculture	263	560	268	365
Manufacturing	2,318	5,099	1,439	3,015
Services	3,650	6,009	1,660	3,397
Wholesale and Retail Trade	5,324	7,528	2,532	5,315
Construction	991	2,236	546	1,496
Transportation and Public Utilities	1,173	1,705	1,294	1,578
Finance, Insurance, and Real Estate	572	875	0	597
Government	3,244	4,755	1,929	3,258
Total Employment	17,536	28,851	9,946	19,087

a. Source: MWFC 2004.

**TABLE 2.7-1  
PROPERTY TAX PAID FOR MNGP; TOTAL REVENUES AND TOTAL BUDGETS OF  
WRIGHT COUNTY, CITY OF MONTICELLO, SCHOOL DISTRICT 882; 1994-2002**

Year	Total Revenues	Property Tax Paid for MNGP	Property Tax as Percent of Total Revenues	Total Budget	Percent of Total Budget
<b>Wright County</b>					
1998	\$46,199,186	\$3,201,300	6.9	\$46,865,139	6.8
1999	\$48,271,892	\$2,915,700	6.0	\$53,932,606	5.4
2000	\$51,180,648	\$2,834,800	5.5	\$52,087,277	5.4
2001	\$56,286,501	\$2,692,600	4.8	\$56,757,810	4.7
2002	\$59,680,999	\$2,019,300	3.4	\$63,520,348	3.2
<b>City of Monticello<sup>a</sup></b>					
1998	\$9,395,052	\$2,803,500	29.8	\$24,039,279	11.7
1999	\$9,639,772	\$3,222,200	33.4	\$24,245,824	13.3
2000	\$12,320,300	\$3,166,500	25.7	\$24,458,440	12.9
2001	\$12,463,189	\$3,145,300	25.2	\$25,940,606	12.1
2002	\$13,782,998	\$3,389,700	24.6	\$26,403,479	12.8
<b>School District 882</b>					
1998	NA	\$6,222,300	NA	NA	NA
1999	\$28,056,186	\$5,725,500	20.4	\$30,913,213	18.5
2000	\$30,032,343	\$5,425,700	18.1	\$33,163,591	16.4
2001	\$33,302,451	\$5,445,300	16.4	\$32,973,858	16.5
2002	\$35,555,509	\$1,856,200	5.2	\$33,909,216	5.5
<b>State General Tax<sup>b</sup></b>					
2002	\$12,211,949,000 <sup>c</sup>	\$691,600	>1	NA	NA

a. Source: Wolfsteller 2004.  
b. Source: Minnesota 2004.  
c. Represents total revenues of State of Minnesota's General Fund.

**TABLE 2.7-2  
 PROPERTY TAX PAID FOR MNGP; TAX REVENUES AND TOTAL REVENUES OF  
 MONTICELLO-BIG LAKE HOSPITAL DISTRICT; 1994-2002**

Year	Total Revenues (\$)	Property Tax Paid for MNGP (\$)	Property Tax as Percent of Total Revenues (%)	Total Tax Received (\$)	Percent of Total Tax Received (%)
<b>Hospital District</b>					
1998	\$17,501,000	\$244,200	1.4	\$875,000	27.9
1999	\$20,475,000	\$218,800	1.1	\$881,000	24.8
2000	\$23,949,000	\$201,300	0.8	\$877,000	23.0
2001	\$27,953,000	\$177,900	0.6	\$877,000	20.3
2002	\$31,539,000	\$173,400	0.5	\$813,000	21.3

**TABLE 2.8-1  
WRIGHT AND SHERBURNE COUNTY MUNICIPAL  
WATER SYSTEMS AND CAPACITIES**

Water System	Population Served	Pumping Capacity (gal/minute)	Average Demand (gal/day)	Peak Demand (gal/day)
<b>Wright County</b>				
Annandale	2,684 <sup>a</sup>	1,200	250,000	600,000
Buffalo	10,001 <sup>a</sup>	3,800	1,200,000	2,300,000
Cokato	2,733 <sup>a</sup>	1,000	340,000	800,000
Delano <sup>b</sup>	3,967 <sup>a</sup>	1,500	400,000	1,000,000
Howard Lake	1,853 <sup>a</sup>	600	100,000	200,000
Joint Powers Board System	17,116	5,900	1,770,000	5,800,000
Maple Lake	1,695 <sup>a</sup>	300	170,000	350,000
Monticello <sup>c</sup>	7,868 <sup>a</sup>	5,444	1,112,500	2,706,000
Montrose	1,520 <sup>a</sup>	1,100	150,000	410,000
Otsego	2,000	4,000	312,000	1,065,000
Rockford	3,340	2,450	400,000	1,200,000
<b>Sherburne County</b>				
Becker <sup>d</sup>	3,200	835	250,000	1,200,000
Big Lake	7,000 <sup>a</sup>	4,000	520,000	2,000,000
Elk River	10,000	5,500	3,700,000	5,300,000
Zimmerman <sup>d</sup>	3,100 <sup>a</sup>	500	385,000	750,000

a. Source: EPA 2004d.  
b. Source: MDEED 2004a.  
c. Source: Monticello 2004b.  
d. Source: MDEED 2004b.  
gal = gallon



**TABLE 2.8-2  
 AVERAGE ANNUAL DAILY TRAFFIC COUNTS FOR  
 COMMUTING ROUTES TO MNGP<sup>a</sup>**

Road Segment	Average Annual Daily Traffic Counts (2002 data)
<b>Wright County</b>	
State Highway 25 from bridge south to I-94	22,600
State Highway 25 from I-94 south 6.6 miles	14,200
I-94 east of Highway 24	39,000
I-94 adjacent to the MNGP site	4,800
I-94 in the City of Monticello	45,400
State Highway 24 from I-94 south	5,500
Wright County Road 8 north of I-94	1,700
Wright County Road 8 south of I-94	1,500
Wright County Road 75 south of State Highway 24	1,850 <sup>b</sup>
Wright County Road 75 in vicinity of Enfield	1,050 <sup>b</sup>
<b>Sherburne County</b>	
State Highway 24 bridge to Wright County Road 52	15,500
State Highway 24 from Wright County Road 52 to State Highway 10	12,800
Highway 25 bridge	31,300
Highway 25 north of bridge 0.5 miles	16,200
<p>a. Source: Mn/DOT 2004.            b. 2000 data.</p>	

**TABLE 2.10-1  
 HISTORICAL SITES OF NATIONAL AND LOCAL SIGNIFICANCE  
 WITHIN 10 MILES OF MNGP SITE<sup>a</sup>**

Site	Address	City	Listed
<b><i>Sites of National Significance</i></b>			
<b>Sherburne County</b>			
Oliver H. Kelley Farmstead (National Historic Landmark)	U.S. Highway 10	Elk River	1966
<b><i>Sites of Local Significance</i></b>			
<b>Sherburne County</b>			
Herbert M. Fox House	First Street and Bradley Boulevard	Becker	1980
<b>Wright County</b>			
Tobias G. Mealey House	Territorial Road	Monticello	1976
Nicherson-Tarbox House and Barn	514 E. Broadway	Monticello	1979
Rufus Rand Summer House and Carriage Barn	Washington Street	Monticello	1979
Simpson Methodist Episcopal Church	Fourth and Linn Street	Monticello	1979
David Hanaford Farmstead	Off County Highway 106	Monticello Township	1979
Clearwater Masonic Lodge-Grand Army of the Republic Hall	205-215 Oak Street	Clearwater	1979
First Congregational Church	Bluff and Elm Streets	Clearwater	1979
William W. Webster House	Spring and Linn Streets	Clearwater	1979
a. Source: MNHS 2004.			