

**ANNUAL GROUND-WATER USE IN THE TWIN CITIES
METROPOLITAN AREA, MINNESOTA, 1970-79**

By M. A. Horn

U.S. GEOLOGICAL SURVEY

Open-File Report 84-577

Prepared in cooperation with the
METROPOLITAN COUNCIL OF THE TWIN CITIES and the
MINNESOTA DEPARTMENT OF NATURAL RESOURCES

St. Paul, Minnesota

1984

UNITED STATES DEPARTMENT OF THE INTERIOR

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CONVERSION FACTORS

For readers who prefer to use metric units, conversion factors for terms used in this report are listed below.

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
square mile (mi ²)	2.590	square kilometer (km ²)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m ³ /s)
million gallons per year (Mgal/y)	15.99065	cubic meter per second (m ³ /s)

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ABSTRACT

Annual ground-water use in the Twin Cities Metropolitan Area from 1970-79 is presented by aquifer and type of use. The data show that most ground water is withdrawn from wells in the Prairie du Chien-Jordan aquifer and that major uses of the water are for self-supplied industry and public supplies. Annual ground-water-use data are presented by county for each of the five major aquifers; Prairie du Chien-Jordan, Mount Simon-Hinckley, Ironston-Galesville, St. Peter, and drift. The data also are presented by county for each major use type, including public supply, self-supplied industry, commercial air-conditioning, irrigation, lake-level maintenance, and dewatering. The data were collected initially by the Minnesota Department of Natural Resources and were supplemented by data collected by the U.S. Geological Survey.

INTRODUCTION

The Twin Cities Metropolitan Area consists of seven counties that include 2,968 mi² (fig. 1). Significant volumes of ground water are withdrawn in the Twin Cities area despite the dependence on surface water by the Minneapolis and St. Paul public water supplies. Data on annual ground-water use in the Twin Cities Metropolitan Area from 1970-79 have been compiled for use by regional and State water-resource planners and managers in making water-development and management decisions. This report contains information collected by both the MDNR (Minnesota Department of Natural Resources) and the U.S. Geological Survey on annual water withdrawals, location, aquifer, and type of use for wells in the Twin Cities area. Data on annual water use from each aquifer during 1970-79 also were used for a digital model of ground-water flow in the Twin Cities Metropolitan Area.

Although some annual water-use data are compiled by the MDNR, the data are from reports submitted by as few as 60 percent of the water users during any given year. Water use commonly is unreported because some users have not obtained a permit or, for various reasons, do not file a water-use report for a specific year. In addition, permitting laws were changed in the mid-1970's and a complete record for all water users does not extend back to 1970.

During 1979 and 1980 the U.S. Geological Survey inventoried water use in the Twin Cities Metropolitan Area to (1) identify unreported water-use, (2) determine the aquifer from which withdrawals were made, and (3) determine accurate locations of wells. Horn (1983) describes the methods used for obtaining these data and for estimating missing data. In this report, estimates of water use are supplied when data are missing, but the estimates are not differentiated from reported data.

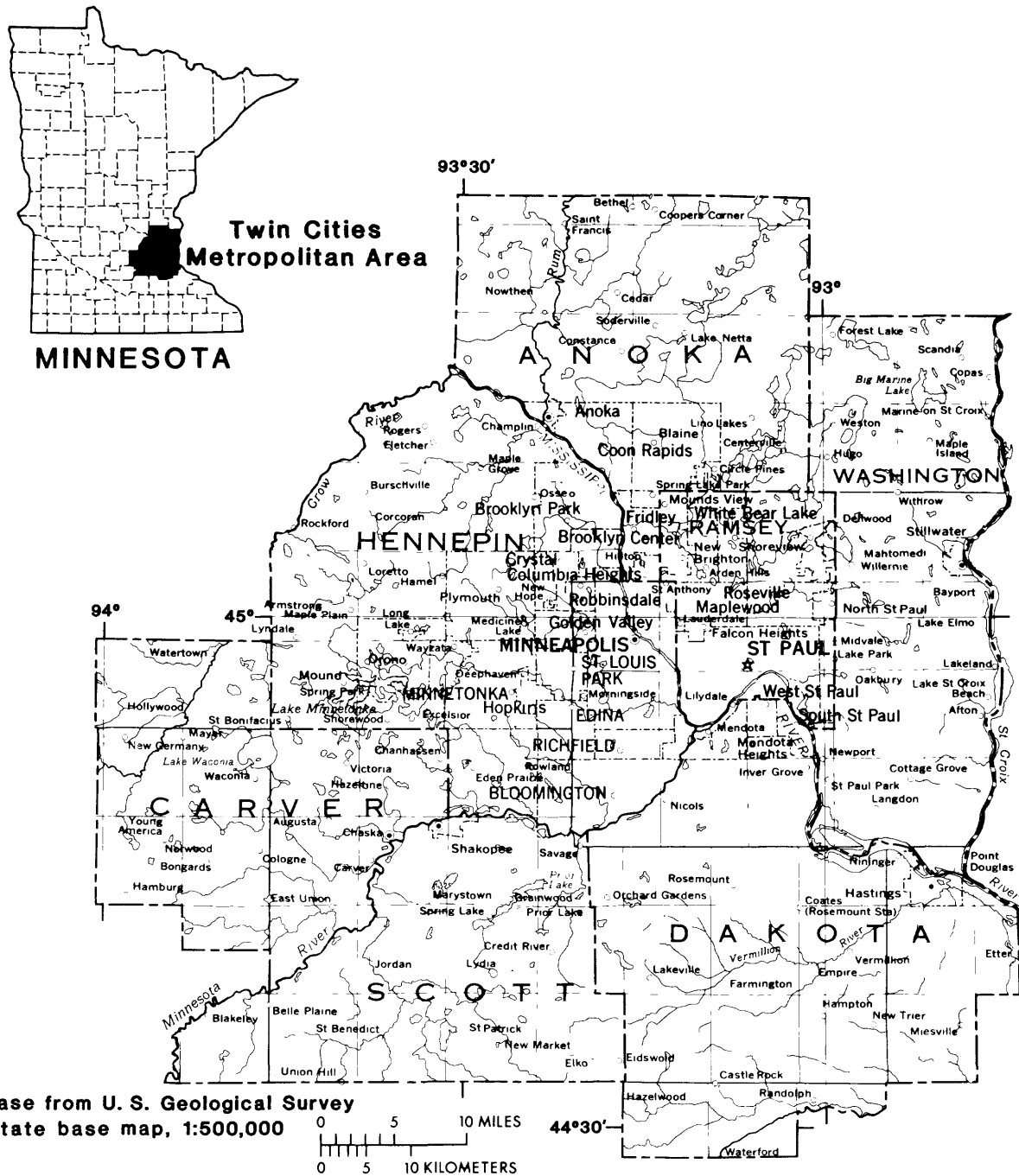


Figure 1.--Location of study area

This report provides total annual values of ground-water use in the Twin Cities Metropolitan Area, Minnesota, from 1970-79, by aquifer and type of use. Data collection is discussed briefly, followed by a discussion of the categories of data contained in the summary, aquifer, and use-type tables.

The term "withdrawals" in this report indicates water leaving the aquifer and "water use" refers to the amount of water obtained by the user. This convention is used in the National Water-Use Information Program (Mann and others, 1982).

DESCRIPTION OF DATA

The report contains three sets of data tables: a summary of annual ground-water use in the Twin Cities area; ground-water use from each major aquifer, organized by county; and ground-water use by each major use type, organized by county.

The five major aquifers in the Twin Cities Metropolitan Area, in order from greatest to least withdrawals, are (1) Prairie du Chien-Jordan, (2) Mount Simon-Hinckley, (3) Ironston-Galesville, (4) St. Peter, and (5) drift. The hydrogeologic characteristics of each aquifer are described in detail by Norvitch and others (1973) and Guswa and others (1982). Methods used to determine which aquifer(s) is tapped by specific wells are described in Horn (1983).

The six major use categories in the Twin Cities area are (1) public supply, (2) self-supplied industry, (3) commercial air-conditioning, (4) irrigation, (5) lake-level maintenance, and (6) dewatering. Table 1 shows the relation between use categories designated by MDNR and the six major use categories specified above for this report.

Tables 2 and 3 summarize annual ground-water use in the Twin Cities Metropolitan Area by aquifer and use type, respectively. The totals in both tables are in million gallons per year (Mgal/yr) because that is how water-use data are recorded by the MDNR and other agencies in Minnesota. Totals in the summary tables also are given in million gallons per day (Mgal/d).

Annual withdrawals from each of the five major aquifers are presented in tables 4 through 8. Wells are located by latitude and longitude. The percent of well discharge that is withdrawn from the aquifer is indicated in the third column. Any value less than 100 percent indicates a multiaquifer well. Methods used to determine percentages are described in Horn (1983). Withdrawal values in the table have been calculated using these percentages. A description of the use code is in table 1.

Annual ground-water use for each of the six major use types is presented in tables 9 through 14. The structure for these tables is the same as for tables 4 through 8 described above.

**Table 1.—Relation between water-use categories specified by Minnesota
Department of Natural Resources and major use categories
specified for this report**

Revised MDNR use-code number	MDNR use categories	Major use categories
11	Municipal water works	Public supply
25	Power generation	Self-supplied industry
31	Commercial air-conditioning	Commercial air-conditioning
32	Institutional air-conditioning	Commercial air-conditioning
40	Industrial processing-miscellaneous	Self-supplied industry
41	Food and livestock (agricultural processing)	Self-supplied industry
42	Paper/pulp	Self-supplied industry
44	Sand and gravel washing	Self-supplied industry
45	Sewage treatment	Self-supplied industry
46	Petro-chemical processing	Self-supplied industry
47	Metal processing	Self-supplied industry
48	Nonmetallic processing	Self-supplied industry
61	Basin- (lake) level maintenance	Lake-level maintenance
63	Quarry dewatering	Dewatering
73	Snow making	Self-supplied industry
81	Golf-course irrigation	Irrigation
97	Major crop irrigation	Irrigation

Table 2.--Summary of annual ground-water use in the Twin Cities Metropolitan Area by aquifer

[Mgal/yr, million gallons per year; Mgal/d, million gallons per day]

Aquifer	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Prairie du Chien- Jordan	54,833.1	50,368.4	50,577.3	55,433.7	56,968.7	54,307.0	61,168.8	58,678.7	57,148.8	54,198.7
Mount Simon- Hinckley	8,704.4	7,900.6	7,724.7	8,346.8	8,133.1	8,172.8	7,824.1	7,379.8	7,626.6	7,098.8
Ironton- Galesville	2,835.8	2,996.4	3,157.8	3,440.7	3,596.6	3,402.2	3,587.9	3,372.4	3,208.0	2,996.1
St. Peter	406.2	316.5	312.4	333.9	319.7	281.4	469.7	336.3	286.7	279.3
Drift	3,769.1	3,872.0	4,415.8	4,272.3	4,426.9	4,029.5	5,592.2	4,998.1	4,930.2	4,776.2
Totals, Mgal/y	70,548.6	65,453.9	66,188.0	71,827.4	73,445.0	70,192.9	78,642.7	74,765.3	73,200.3	69,349.1
Totals, Mgal/d	193.3	179.3	181.3	196.8	201.2	192.3	215.5	204.8	200.5	190.0

Table 3.--Summary of annual ground-water use in the Twin Cities Metropolitan Area by type of use

[Mgal/yr, million gallons per year; Mgal/d, million gallons per day]

Use type	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Public supply	22,411.1	22,657.7	23,738.8	26,757.3	29,174.5	30,590.5	36,451.2	33,169.1	34,184.1	33,355.0
Self-supplied industry	32,680.3	30,802.1	30,841.0	31,265.4	29,077.1	26,506.9	26,012.4	24,173.9	24,394.9	22,498.0
Commercial air-conditioning	8,243.4	7,936.1	7,460.5	7,496.2	7,152.4	6,907.9	6,703.1	6,415.8	6,429.3	5,794.1
Irrigation	1,088.6	1,091.0	994.1	1,066.2	1,446.8	1,745.3	5,690.7	6,364.8	4,727.3	4,086.9
Lake-level maintenance	3,793.4	849.8	296.1	451.1	863.8	206.7	1,253.9	2,100.9	461.7	379.1
Dewatering	2,331.8	2,117.2	2,857.5	4,791.2	5,730.4	4,235.6	2,561.4	2,540.8	3,003.0	3,236.0
Totals, Mgal/y	70,548.6	65,453.9	66,188.0	71,827.4	73,445.0	70,192.9	78,642.7	74,765.3	73,200.3	69,349.1
Totals, Mgal/d	193.3	179.3	181.3	196.8	201.2	192.3	215.5	204.8	200.5	190.0

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY													
450209	931532	100 41	45.0	45.0	45.0	45.0	45.0	45.0	43.0	43.0	43.0	43.0	CARGILL INC. FLAX PL 1
450215	931528	100 40	34.5	14.8	49.6	32.0	32.0	32.0	14.3	50.0	50.0	107.1	HONEYWELL HILLCRIST 1
450221	931543	100 47	.0	.0	.0	.0	.0	11.2	98.6	63.3	46.1	78.2	MPLS ELECTRIC STEEL 2
450255	931615	100 41	90.0	83.0	83.0	83.0	83.0	83.0	75.0	75.0	75.0	75.0	HONEYMEAD-MN LINSEED 2
450255	931615	100 41	90.0	83.0	83.0	83.0	83.0	83.0	75.0	75.0	75.0	75.0	HONEYMEAD-MN LINSEED 1
450317	931633	100 47	195.9	154.7	20.8	76.8	3.9	2.2	24.3	12.4	1.1	6.0	F.M.C. 1
450336	931628	100 47	178.0	129.0	129.0	129.0	129.0	129.0	168.0	168.0	168.0	168.0	F.M.C. 2
450336	931628	100 47	178.0	129.0	129.0	129.0	129.0	129.0	168.0	168.0	168.0	168.0	F.M.C. 3
450340	931649	100 11	.0	16.0	5.0	.6	8.6	22.0	37.5	19.8	12.2	16.0	FRIDLEY 13
450406	931848	100 47	97.9	100.9	115.4	114.4	113.4	111.0	20.0	.1	8.8	10.0	MPLS ELECTRIC STEEL 1
450446	931514	100 11	18.0	16.0	119.0	252.0	188.0	159.0	275.0	279.1	271.0	277.4	FRIDLEY 6
450456	931517	100 11	232.0	231.2	192.8	227.3	349.2	203.0	155.9	174.7	140.8	236.1	FRIDLEY 8
450513	931608	100 40	12.1	12.1	12.1	12.1	12.1	15.8	21.3	17.5	19.6	22.5	DESIGNWARE INDUSTRIE 1
450538	931544	100 11	.0	20.0	20.4	129.1	175.1	106.0	122.6	117.5	184.1	151.0	FRIDLEY 11
450606	931433	100 11	.0	.0	.0	.0	6.9	18.0	78.0	14.0	12.6	13.0	FRIDLEY 12
450613	931441	95 11	13.4	11.0	9.3	10.5	10.4	12.0	16.1	13.8	12.5	9.0	FRIDLEY TERRACE 2
450811	931418	95 11	93.0	85.5	96.1	71.8	84.8	84.8	91.6	84.2	84.4	97.3	BLAINE CITY OF 4
450818	931029	100 11	69.0	44.0	50.0	41.0	42.0	69.0	57.3	60.0	64.0	54.5	LEXINGTON 1
450845	930900	100 11	68.1	45.5	61.0	61.0	73.3	64.0	57.7	55.3	98.3	76.9	CIRCLE PINES CITY OF 3
450914	930519	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	LINO LAKES 2
451055	932150	100 11	13.6	4.6	5.8	2.7	1.3	3.0	2.5	2.7	.1	1.0	COON RAPIDS 6
451135	932300	95 11	142.5	190.0	190.0	190.0	190.0	190.0	181.4	133.9	132.2	87.5	ANOKA 3
ANOKA COUNTY TOTALS			1571.0	1415.3	1416.3	1690.3	1760.0	1572.0	1783.1	1627.3	1666.8	1772.5	

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
CARVER COUNTY													
444358	935806	100 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HAMBURG
444552	935544	95 11	17.1	22.8	22.8	22.8	22.8	22.8	23.8	23.8	23.8	23.8	NORWOOD
444723	933557	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CHASKA
445151	933135	100 11	.0	.0	.0	.0	43.0	66.8	87.3	72.2	100.3	87.0	CHANHASSEN
445151	933436	100 11	30.1	35.7	46.1	25.0	13.1	27.7	53.0	55.3	49.1	53.0	CHANHASSEN
445153	933200	100 11	2.9	.4	.1	.1	.1	.1	.1	.1	.1	.1	CHANHASSEN
445256	933830	55 11	.0	.0	.0	.0	.0	.0	.2	.9	1.3	1.2	VICTORIA
445309	933457	100 11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	CHANHASSEN
CARVER COUNTY TOTALS			60.1	68.9	79.0	57.9	89.0	127.4	174.4	162.3	184.6	175.1	
DAKOTA COUNTY													
442923	930507	100 97	.0	.0	.0	.0	.0	.0	.0	.0	34.6	17.3	HAND, R.
443029	930502	100 97	.0	.0	.0	.0	.0	.0	.0	15.0	15.0	15.0	ERRINGTON, D.
443036	930207	100 97	.0	.0	.0	.0	.0	.0	.0	14.3	12.5	6.2	BARRETT, M.J.
443041	930438	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ERRINGTON FARMS
443104	930606	100 97	.0	.0	.0	.0	.0	.0	20.0	41.5	24.3	34.6	VOLKERT, F.
443105	930839	100 97	.0	.0	.0	.0	.0	.8	9.1	4.0	.2	.2	ABBOTT, H.
443106	930515	100 97	.0	.0	.0	.0	.0	.0	.0	51.9	41.5	30.0	VOLKERT, F.
443108	930257	100 97	.0	.0	.0	.0	.0	.0	66.0	67.6	19.4	33.0	VOLKERT, F.
443108	930636	100 97	.0	.0	.0	.0	.0	.0	.0	50.6	31.6	21.6	VOLKERT, F.
443109	930432	100 97	.0	.0	.0	.0	.0	.0	52.0	51.8	38.9	21.6	VOLKERT, F.
443117	930401	100 97	.0	.0	.0	.0	.0	.0	.0	46.6	21.0	12.5	CHMAN, M.A.
443128	925717	100 97	.0	.0	.0	.0	.0	.0	.0	17.6	9.8	7.3	FELTON, D.A.
443134	930616	100 97	.0	.0	.0	.0	.0	.0	51.8	51.8	25.9	19.4	VOLKERT, F.
443137	930427	100 97	.0	.0	.0	.0	.0	.0	21.7	19.9	20.0	20.0	VOLKERT, W.
443139	925846	100 97	.0	.0	.0	.0	.0	.0	.0	44.0	45.3	33.9	AUGUSTINE, P.
443148	925941	100 97	.0	.0	.0	.0	.0	.0	54.0	48.2	29.5	19.7	BERDE, S.

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443150	925614	100 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	3.5	3.5	GERGEN, E.P.
443155	930116	100 97	.0	.0	.0	.0	.0	.0	.0	22.0	17.3	3.1	TOPP, D.G.
443157	930926	100 97	.0	.0	.0	.0	.0	.0	15.5	.8	.0	.0	POND, R.
443200	925901	100 97	19.2	27.0	16.2	15.0	19.9	16.4	30.0	21.0	15.0	9.0	GERGEN
443203	930451	100 97	.0	.0	.0	.0	.0	.0	.0	.0	6.9	4.8	ENGLER, R.W.
443205	930826	100 97	.0	.0	.0	.0	.0	.0	.0	8.4	.0	.0	PETERSON, R.W.
443216	925922	100 97	.0	.0	.0	.0	.0	.0	.0	28.0	10.8	11.9	CONZEIUMS, J.
443221	925906	100 97	25.9	23.0	26.9	23.0	26.9	23.0	46.1	23.0	15.4	28.0	FELTON, A.
443222	931009	100 97	10.5	5.3	3.4	5.3	1.8	.0	.0	.0	.0	.0	POND, M.
443223	925752	100 97	16.5	16.6	32.3	11.9	22.2	14.8	32.0	17.0	3.8	3.6	GRISIM, J.
443225	930151	100 97	.0	.0	.0	.0	.0	.0	24.0	19.3	10.5	6.3	ENGLER, C.
443229	930120	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MOORHOUSE, W.
443244	925955	100 97	.0	.0	.0	.0	.0	.0	.0	30.8	15.7	12.4	OTTE, J.A.
443248	930150	100 97	.0	.0	.0	.0	.0	.0	.0	18.7	.0	.0	MOORHOUSE, W.
443249	925431	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	PINE CREEK FARMS
443249	925736	100 97	.0	.0	.0	.0	.0	.0	.0	31.0	15.6	3.5	GERGEN, W.
443251	925904	100 97	.0	.0	.0	.0	.0	.0	.0	35.5	20.6	11.6	OTTE, L.
443252	925012	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	DROMETER, F.
443252	925141	100 97	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.4	AHLERS, D.
443252	925719	100 97	.0	.0	.0	.0	.0	.0	24.7	18.7	11.9	8.1	FRANDRUP, A.
443312	925221	100 97	.0	.0	.0	.0	.0	.0	.0	79.2	21.8	21.8	CONZEMIUS, J.
443313	925938	100 97	.0	.0	.0	.0	.0	.0	.0	25.0	28.2	17.0	GERGEN, P.A.
443314	925846	100 97	.0	.0	.0	.0	.0	.0	.0	.0	13.2	15.0	GERGEN, L.J.
443317	925418	100 97	.0	.0	.0	.0	.0	9.2	22.9	10.6	6.3	6.4	CALLISTER, C.
443317	930554	100 97	.0	.0	.0	.0	.0	.0	.0	.0	12.1	8.8	BETZOLD BROTHERS
443336	925509	100 97	.0	.0	.0	.0	.0	8.9	32.6	24.1	11.2	7.8	CALLISTER, W.
443337	930353	100 97	.0	.0	.0	.0	.0	.0	.0	33.3	19.4	16.2	BETZOLD, K.
443338	930116	100 97	.0	.0	.0	.0	.0	.0	.0	15.7	8.4	8.9	ENGLER, R.W.

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443339	925556	100 97	23.0	18.0	18.0	18.0	19.8	18.2	31.7	28.0	11.7	7.8	CONZEMIUS, G.
443339	925810	100 97	.0	.0	.0	.0	.0	.0	.0	13.4	16.0	7.6	FRANDRUP, A.
443340	925210	100 97	.0	.0	.0	.0	.0	.0	.0	43.2	12.2	10.2	CONZEMIUS, J.
443349	925306	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	KIMMES, L.
443407	925128	100 97	.0	.0	.0	.0	.0	.0	.0	13.4	9.1	6.2	WEBER, J.
443407	930259	100 97	.0	.0	.0	.0	.0	.0	43.2	18.5	10.5	10.0	SORG, W & G.
443435	925413	100 97	.0	.0	.0	.0	.0	8.4	47.8	22.8	10.9	12.4	STEIN, N.
443436	930203	100 97	.0	.0	.0	.0	.0	.0	.0	9.0	9.3	9.0	SCHAFER, H.H.
443441	925449	100 97	.0	.0	.0	.0	4.8	4.8	4.8	8.6	4.0	6.0	DIERKE, M.
443443	930627	100 97	3.9	5.0	1.0	5.0	5.0	4.5	16.0	1.9	.0	.0	PARISEAU, K.
443446	925140	100 97	.0	.0	.0	.0	.0	.0	.0	77.8	25.3	16.9	CONZEMIUS
443455	930424	100 97	.0	.0	.0	.0	.0	.0	.0	.0	13.0	14.0	KLIMA, C.
443459	925317	100 97	.0	.0	.0	.0	.0	.0	.0	28.8	10.8	8.5	KIMMES, L.
443501	925353	100 97	.0	.0	.0	.0	.0	.0	.0	18.8	6.7	10.5	CEKAY INC.
443507	925732	100 97	.0	.0	.0	.0	.0	.0	.0	29.2	38.4	18.6	REINSCH, K.J.
443520	925031	100 97	.0	.0	.0	.0	.0	.0	27.6	22.6	9.1	7.0	PEINE, T.C.
443520	925435	100 97	.0	.0	.0	.0	.0	.0	.0	21.6	16.8	9.2	MURPHY, J.
443520	925809	100 97	.0	.0	.0	.0	.0	.0	.0	26.5	17.3	13.4	WELLMAN, A.
443521	924816	100 97	.0	.0	.0	.0	.0	.0	.0	34.2	16.3	7.2	ELMECCA FARM
443524	925357	100 97	.0	.0	.0	.0	.0	.0	.0	13.4	3.6	4.0	LANDSBERGER, F.
443525	924905	100 97	.0	.0	.0	.0	.0	.0	.0	7.8	10.8	12.1	BAUER, I.
443552	924941	100 97	.0	.0	.0	.0	.0	.0	.0	24.7	.3	9.1	SCHAFER, W.
443552	925008	100 97	.0	.0	.0	.0	.0	.0	.0	31.7	20.7	26.0	WELLMAN, F.
443552	930409	100 97	.0	.0	.0	.0	.0	.0	.0	33.0	25.2	14.4	WAGENKNECHT, G.E.
443554	925056	100 97	.0	.0	.0	.0	.0	.0	.0	26.0	12.9	10.0	LEIFIELD, R.
443607	925610	100 11	1.1	1.4	2.0	2.0	2.3	2.0	3.1	2.6	3.0	1.8	NEW TRIER
443607	925610	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NEW TRIER
443615	924720	100 97	.0	.0	.0	.0	.0	.0	.0	15.2	11.7	5.7	PEINE, H.

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443619	924932	100 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	0.3	5.0	SCHAFER, W.
443628	925645	100 97	.0	.0	.0	.0	.0	.0	.0	13.0	8.6	.2	PEINE, L.
443636	925014	100 97	.0	.0	.0	.0	.0	.0	22.7	45.6	28.8	32.0	MOLITOR, E.
443639	925949	65 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	HAMPTON
443639	925949	65 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	HAMPTON
443639	925949	100 11	8.4	8.1	9.0	8.8	9.3	9.0	10.0	10.0	10.0	10.0	HAMPTON
443643	930147	100 97	.0	.0	.0	.0	.0	.0	58.2	12.2	20.2	7.2	DOHMEN, E.
443648	924952	100 97	.0	.0	.0	.0	.0	.0	9.6	.0	5.2	.4	RAWAY, F.
443651	925541	100 97	.0	.0	.0	.0	.0	.0	.0	15.9	9.1	11.2	BIESSEL
443707	925844	100 97	.0	.0	.0	.0	.0	.0	.0	.0	11.0	13.1	ENDRES, M.
443709	925152	100 97	.0	.0	.0	.0	.0	.0	.0	12.6	9.4	11.7	WEBER, G.
443709	930608	100 97	.0	.0	.0	.0	.0	.0	.0	31.6	29.6	18.0	EMPEY, D.
443710	925205	100 97	.0	.0	.0	.0	.0	.0	.0	54.0	31.8	22.5	GERGEN, L. J.
443710	930642	100 97	.0	.0	.0	.0	.0	.0	.0	26.6	7.1	7.9	EMPEY, D.
443712	930720	100 97	.0	.0	.0	.0	.0	.0	.0	5.5	2.5	3.6	ANUGUS, A.
443713	930321	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	POND, D.
443716	924826	100 97	.0	.0	.0	.0	.0	.0	.0	9.0	13.7	12.8	KIMMIS, R.
443716	924913	100 97	.0	.0	.0	.0	.0	.0	33.9	18.3	13.8	13.9	KIMMES, S. T.
443720	924903	100 97	.0	.0	.0	.0	.0	.0	.0	19.7	7.4	8.8	KIEFFER, W.
443722	930926	100 97	7.3	1.3	.0	.0	6.6	3.4	12.3	.0	6.9	7.0	ADELHANN, P.
443723	925658	100 97	.0	.0	.0	.0	.0	.0	49.3	18.0	2.5	4.0	BEISSEL, G.
443736	925230	100 97	.0	.0	.0	.0	.0	.0	.0	12.3	9.7	5.9	JOHNSON, G.
443736	925252	100 97	.0	.0	.0	.0	.0	.0	.0	1.6	.9	.9	KIMMES, E. T.
443737	930414	100 97	.0	.0	.0	.0	.0	.0	41.0	34.7	20.0	15.8	BETZOLD, K.
443738	930242	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	JUENKE, L. W.
443746	924834	100 97	.0	.0	.0	.0	.0	.0	.0	24.2	12.0	11.2	BAUER, A.
443753	935447	100 97	.0	.0	.0	.0	.0	.0	.0	18.3	11.5	9.3	KING, W.
443800	925033	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	KIMMIS, R.

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443803	925712	100 97	0.0	0.0	0.0	0.0	0.0	0.0	71.4	65.0	51.0	36.0	WAGNER, A.
443803	930039	100 97	.0	.0	.0	.0	.0	.0	.0	18.2	9.2	7.2	LOUIS, B.
443806	930149	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.2	6.0	GERSTER, A.
443806	930859	100 11	63.2	70.2	74.7	79.5	86.9	42.9	44.7	7.8	10.1	5.0	FARMINGTON
443809	930436	100 97	.0	.0	.0	.0	.0	.0	41.0	18.9	20.0	16.7	JUENKE, L.
443813	924923	100 97	.0	.0	.0	.0	.0	.0	.0	12.7	10.0	11.1	SWANSON
443822	925435	100 97	26.0	15.3	11.8	15.6	26.5	21.4	26.9	18.8	12.2	18.3	LORENTZ, C.
443824	930855	100 41	353.3	344.5	316.4	196.5	193.1	263.0	160.0	160.0	160.0	160.0	MID-AMERICA DAIRYMEN
443824	930855	95 41	210.9	166.3	166.3	166.3	166.3	166.3	100.7	100.7	100.7	100.7	TWIN CITIES MILK PRO
443824	931329	100 11	20.6	43.8	79.2	92.2	113.2	109.1	130.1	.1	125.9	105.5	LAKEVILLE
443825	924851	100 97	.0	.0	.0	.0	.0	.0	.0	13.2	9.9	9.0	FOX, G.F.
443825	930845	100 11	.5	.6	.6	1.0	1.0	1.0	.2	.2	1.0	.4	FARMINGTON
443825	930845	100 11	51.0	67.0	67.0	67.0	67.0	67.0	70.0	50.0	10.0	.1	FARMINGTON
443826	925906	100 97	.0	.0	.0	.0	.0	.0	.0	10.1	6.3	4.1	BAUER, J.J.
443827	925319	100 97	.0	.0	.0	.0	.0	.0	21.6	1.4	.9	.9	KIMMES, E.
443828	925734	100 97	.0	.0	.0	.0	54.2	14.2	58.4	32.2	29.2	15.0	BROCHMAN BROS
443829	925941	100 97	.0	.0	.0	.0	.0	.0	33.7	7.7	4.5	4.0	BAUER, J.J.
443830	925050	100 97	.0	.0	.0	.0	.0	.0	.0	7.5	4.6	3.8	KINGSTON, J.
443830	925227	100 97	.0	.0	.0	.0	.0	.0	36.6	16.9	11.0	9.5	KIMMIS, R.
443832	930620	100 97	.0	.0	.0	.0	.0	.0	6.7	1.3	.0	4.0	BETZOLD, G.A.
443834	925544	100 97	.0	27.0	18.3	20.3	32.3	31.5	33.0	39.6	28.5	34.0	ANGELL, F.R.
443838	930223	100 97	.0	.0	.0	.0	17.0	21.6	37.9	27.9	15.1	12.9	LOUIS, BEN
443838	930425	100 97	.0	.0	.0	.0	.0	.0	.0	7.1	3.0	3.0	SOWIEJA, E.
443841	925458	100 97	.0	23.1	16.8	18.9	29.4	27.3	39.5	22.7	29.1	31.0	ANGELL, R.B.
443842	930001	100 97	.0	.0	.0	.0	.0	.0	.0	27.0	20.9	14.6	WERNER, J.
443843	925922	100 97	.0	.0	.0	.0	.0	.0	43.3	9.1	6.5	5.2	BAUER, B.
443846	925657	100 97	.0	.0	.0	.0	.0	15.4	57.6	40.5	40.5	46.0	SIEBENALER, W.
443851	925056	100 97	.0	.0	.0	.0	.0	.0	24.8	12.6	12.5	6.5	KINGSTON, J.

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443852	925206	100 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.0	23.3	16.5	GERBES ENTERPRISES 1
443853	925131	100 97	.0	.0	.0	.0	.0	.0	20.0	17.2	6.5	5.9	KINGSTON, J. 1
443853	925245	100 97	.0	.0	.0	.0	.0	.0	40.6	19.2	20.4	16.3	KIMMES, H. 1
443853	925325	100 97	.0	.0	.0	.0	.0	34.8	68.0	55.7	31.3	22.9	WOLLMERING, G. & J. 1
443854	925432	100 97	.0	.0	.0	.0	.0	.0	.0	15.3	11.6	6.3	DEUTSCH 1
443854	925808	100 97	.0	.0	.0	.0	.0	.0	.0	32.0	11.3	10.0	SIEBENALER, P. 1
443855	925903	100 97	.0	.0	.0	.0	.0	.0	.0	13.0	3.2	4.5	BAUER, B.M. 1
443855	931437	100 11	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	LAKEVILLE 1
443856	930129	100 97	.0	.0	.0	.0	.0	.0	79.5	57.1	20.6	23.1	HINCE, J. 1
443907	930611	100 97	.0	.0	.0	.0	.0	.0	29.2	42.7	11.3	16.0	BETZOLD, D. 1
443907	930833	100 11	.0	.0	.0	.0	5.9	6.3	16.2	12.0	14.7	19.4	EMPIRE 1
443914	925156	100 97	.0	.0	.0	.0	.0	.0	.0	9.9	5.6	5.6	KIMMES, H. 1
443917	924638	100 97	.0	.0	.0	.0	.0	.0	.0	18.6	39.2	19.0	CARLSON 1
443919	925224	100 97	27.6	25.2	16.8	33.4	42.9	34.3	65.0	34.5	28.6	15.7	BAUER, R.N. 1
443919	925318	100 97	.0	.0	.0	.0	.0	.0	46.2	48.5	36.4	18.9	BAUER, M. 1
443920	925417	100 97	.0	.0	.0	.0	.0	24.0	50.4	48.6	36.2	20.3	BAUER, A. 1
443921	925355	100 97	.0	.0	.0	.0	.0	.0	.0	17.3	14.9	10.4	WOLLMERING, G. 1
443921	925810	100 97	.0	.0	.0	.0	.0	.0	54.4	43.5	37.0	25.7	TUTENWOHL 1
443921	930503	100 97	30.0	30.0	36.3	27.1	19.3	15.0	63.8	14.1	4.6	3.7	MILES, J.G. 1
443932	925619	100 97	.0	.0	.0	.0	.0	.0	.0	29.5	26.0	13.7	BROCHMAN BROS. 1
443932	925813	100 97	.0	.0	.0	.0	.0	.0	30.3	20.2	22.1	20.0	BEISEL, D. 1
443934	930458	100 97	19.0	16.5	17.0	14.0	12.4	10.5	41.4	20.6	1.2	21.0	MILES, J.G. 2
443935	924928	100 97	.0	.0	.0	.0	.0	.0	.0	5.1	8.4	9.5	SWANSON, W. 1
443935	925041	100 97	.0	.0	.0	.0	.0	1.5	7.8	6.1	5.1	3.5	SWANSON, L. 1
443944	925245	100 97	.0	.0	.0	.0	.0	.0	38.0	14.4	7.1	4.2	BAUER, F. & STEINKE, 1
443945	925209	100 97	.0	.0	.0	.0	.0	.0	34.0	26.1	21.8	14.3	FOX, G.F. 1
443946	925734	100 97	.0	.0	.0	.0	.0	.0	.0	30.6	11.5	4.6	WALLMERING, H. 1
443947	925507	100 97	.0	.0	.0	.0	.0	.0	5.0	20.0	10.3	22.0	SIEBENALER, C.J. 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
443947	925809	100	97	0.0	0.0	0.0	0.0	0.0	0.0	39.2	28.6	38.0	4.4	ROTHER, L.
443948	925849	100	97	.0	.0	.0	.0	.0	.0	1.2	5.5	5.3	.1	RAWAY, H.
443952	925420	100	97	.0	.0	.0	.0	.0	.0	64.4	35.6	20.8	11.1	LEIFELD, N.
444005	930230	100	97	.0	.0	.0	.0	.0	.0	27.0	15.7	7.6	3.7	SACHS, W.
444008	924827	100	97	.0	.0	.0	.0	.0	.0	.0	.0	27.0	12.0	MAHER, M.
444012	925055	100	97	.0	.0	.0	.0	.0	.0	33.0	36.0	29.8	33.6	KIEFFER, J.
444012	925241	100	97	.0	.0	.0	.0	.0	25.9	86.4	44.8	43.4	47.0	BAUER, L.
444012	930017	100	97	.0	.0	.0	.0	.0	.0	.0	13.0	13.5	8.0	BROCHMAN, R.J.
444013	925733	100	97	.0	.0	.0	.0	.0	.0	.0	12.5	4.9	11.3	REIS, C.
444013	930329	100	97	.0	.0	.0	.0	.0	.0	.0	18.9	10.8	9.0	BROCKMAN, L.
444014	925925	100	97	.0	.0	.0	.0	.0	.0	19.9	24.0	28.8	24.9	KUMMER, M.
444014	930216	100	97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BOCKMAN, L.
444036	924812	100	97	.0	.0	.0	.0	.0	.0	.0	25.2	42.9	34.0	ALMQUIST, E.
444036	925432	100	97	.0	.0	.0	.0	.0	.0	43.9	18.8	24.7	10.6	BESKAU, J.
444037	925207	100	97	.0	.0	.0	.0	.0	.0	.0	14.8	19.1	12.3	DLR LAND PARTNERSHIP
444037	925241	100	97	.0	.0	.0	.0	.0	16.8	39.6	28.8	28.8	28.0	GROTH, D.
444037	925620	100	97	.0	.0	.0	.0	.0	.0	.0	1.9	12.4	7.5	WAGNER, E.
444038	925114	100	97	.0	.0	.0	.0	.0	.0	14.4	2.5	3.5	4.0	SCHULLER, J.D.
444038	925318	100	97	.0	.0	.0	.0	.0	27.9	51.8	37.9	33.4	53.2	RAUER, L.J.
444040	925546	100	97	.0	.0	.0	.0	42.1	50.1	105.3	45.8	36.2	51.9	GERGEN, J.
444048	930012	100	97	.0	.0	.0	.0	.0	.0	.0	18.9	16.7	3.0	WERNER, A.
444051	931047	100	11	.0	.0	.0	.0	30.6	124.9	261.5	216.3	216.5	209.7	FARMINGTON
444052	925544	100	97	.0	.0	.0	.0	.0	28.8	84.9	31.5	22.7	17.6	BESKAW & GERGEN
444053	924844	100	97	.0	.0	.0	.0	.0	.0	28.8	25.2	42.9	32.0	ALMQUIST, E.
444103	924526	100	97	.0	.0	.0	.0	.0	.0	.0	15.7	10.0	2.2	REUTER, W.
444104	925037	100	97	.0	.0	.0	.0	.0	.0	.0	14.4	.0	.0	PALM, L.
444104	925431	100	97	.0	.0	.0	.0	33.7	25.0	50.6	51.1	29.6	19.9	LEIFELD
444104	925618	100	97	.0	.0	.0	.0	.0	.0	.0	17.2	16.4	15.0	STOFFEL, R.G.

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
444106	930037	100 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	30.4	3.8	WERNER, A. 1
444115	930024	100 97	.0	.0	.0	.0	.0	.0	.0	37.3	28.8	8.0	RIES, J. 1
444122	925533	100 97	.0	.0	.0	.0	.0	17.8	3.3	11.9	8.0	6.3	STOFFEL, L. 1
444128	924752	100 97	.0	.0	.0	.0	.0	.0	.0	28.8	55.9	42.0	ALMQUIST, E. 1
444129	924824	100 97	.0	.0	.0	.0	.0	.0	29.4	21.0	.3	18.9	MAHER, M. 1
444130	924640	100 97	.0	.0	.0	.0	.0	.0	.0	14.7	5.0	5.0	DUSHANE, R. 1
444130	925122	100 97	.0	.0	.0	.0	.0	.0	41.6	18.9	19.4	18.0	MOLITOR, E. 1
444130	925356	100 97	.0	.0	.0	.0	.0	18.0	31.5	21.6	1.4	22.5	BAILEY NURSERIES 1
444130	925543	100 97	.0	.0	.0	.0	.0	.0	28.3	42.7	5.6	3.7	STOFFEL, N. 1
444130	925848	100 97	.0	.0	.0	.0	.0	.0	34.6	16.1	10.9	8.1	FRANDRUP, F. 1
444130	925924	100 97	.0	.0	.0	.0	.0	.0	.0	9.1	12.1	8.1	FRANDRUP, D. 1
444131	925429	100 97	28.0	34.0	34.0	45.4	51.0	58.7	.0	.0	.0	.0	BROWN, C.B. 1
444133	931201	100 97	.0	9.0	.0	12.6	9.0	9.9	45.2	8.4	10.3	10.0	JENSEN, R. 1
444134	930223	100 97	.0	.0	.0	.0	.0	.0	.0	10.6	5.8	4.6	BOHN, T. 1
444140	924538	100 97	.0	.0	.0	.0	.0	.0	.0	.0	6.0	12.0	CARLSON, A.J. 1
444144	930058	100 97	.0	.0	.0	.0	.0	.0	.0	16.2	7.7	10.4	VOLKERT, A.J. 1
444154	925619	100 97	.0	.0	.0	.0	.0	.0	28.9	12.4	4.4	6.9	KASEL, G. 1
444155	924827	100 97	.0	.0	.0	.0	.0	.0	.0	20.2	.3	15.1	MAHER, M. 1
444155	925733	100 97	.0	.0	.0	.0	.0	.0	37.8	26.1	6.5	19.2	GERGEN, L. 1
444155	930036	100 97	.0	.0	.0	.0	.0	.0	20.8	13.1	8.5	8.9	VOLKERT, E.K. 1
444156	925655	100 97	.0	.0	.0	.0	.0	.0	56.6	25.7	32.4	25.9	STEBENALER, J. 1
444156	925922	100 97	.0	.0	.0	.0	.0	.0	.0	12.6	9.7	4.5	BAUER, C. 1
444157	925129	100 97	.0	.0	.0	.0	.0	.0	.0	10.7	15.6	17.3	BAUER, L. 1
444157	925318	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BAUER, G. 1
444158	925847	100 97	.0	.0	.0	.0	.0	.0	.0	18.6	16.4	9.6	FRANDRUP, F. 1
444203	924701	100 97	.0	.0	.0	.0	.0	.0	.0	33.4	27.4	16.2	STEBENALER, L. 1
444210	925207	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	FRY, R. 1
444211	925148	100 97	.0	.0	.0	.0	.0	.0	37.3	9.2	9.2	6.0	STEBEN, A. 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
444219	925056	100 97	0.0	0.0	0.0	0.0	0.0	0.0	28.8	26.9	13.1	7.2	CONZEMIUS, J.
444221	924754	100 97	.0	.0	.0	.0	.0	.0	.0	27.6	30.2	9.0	BIRK, M.
444221	925449	100 97	.0	.0	.0	.0	.0	.0	.0	5.8	3.6	3.5	KESEL, E.
444222	930000	100 97	.0	.0	.0	.0	.0	.0	.0	14.8	9.4	9.0	VOLKERT, E.
444222	930035	100 97	.0	.0	.0	.0	.0	.0	.0	16.3	5.5	6.0	BAUER, B.M.
444223	925809	100 97	.0	.0	.0	.0	.0	.0	.0	26.4	18.4	22.0	SIEBEN, N..
444223	925846	100 97	.0	.0	.0	.0	.0	.0	40.8	30.6	15.6	15.0	SIEBEN, N.
444223	931251	100 11	37.2	19.1	7.5	36.0	11.0	7.3	33.5	40.1	60.9	20.1	LAKEVILLE
444224	925736	100 97	.0	.0	.0	.0	.0	.0	.0	4.0	4.0	4.0	GROTH, D.A.
444227	931252	100 11	39.0	66.9	102.2	86.9	123.8	134.7	185.5	.2	194.5	258.1	LAKEVILLE
444233	925310	100 97	.0	.0	.0	.0	.0	.0	39.1	13.1	15.5	23.0	BAUER, W.
444248	925846	100 97	.0	.0	.0	.0	.0	.0	.0	19.2	5.2	2.9	SCHAFER, T.W.
444248	925923	100 97	.0	.0	.0	.0	.0	.0	.0	25.2	10.0	10.0	FOX, H. & R.
444249	925507	100 97	.0	.0	.0	.0	.0	.0	.0	9.2	6.0	3.6	BAUER, G.
444249	930148	100 97	.0	1.0	1.0	1.0	10.4	.0	15.8	.0	1.7	3.5	MARTHALER, J.
444249	930148	100 97	.0	1.0	1.0	1.0	1.0	1.0	5.0	5.0	5.0	5.0	MARTHALER, J.
444250	925240	100 97	25.0	25.0	25.0	25.0	25.0	32.4	72.9	25.9	21.6	40.0	BAUER
444254	925754	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GROTH, D.A.
444306	925042	100 11	.0	.0	.0	39.8	180.1	222.9	223.8	222.0	207.5	200.7	HASTINGS
444314	925959	100 97	.0	.0	.0	.0	.0	.0	.0	28.1	25.7	22.3	FAHEY BROS.
444318	930050	100 97	.0	.0	.0	.0	.0	.0	28.4	19.4	18.9	8.6	ABRAHAMSEN, H.
444320	925907	100 97	.0	.0	.0	.0	1.4	13.3	31.0	35.6	12.0	7.2	FOX, R.
444328	925247	100 11	128.5	130.0	131.8	143.5	128.7	106.9	129.4	126.7	124.8	110.2	HASTINGS
444330	931700	100 11	9.3	4.9	7.8	11.0	13.8	11.9	19.4	2.0	2.0	2.0	BURNSVILLE
444334	925056	100 41	26.0	30.0	70.0	57.0	61.4	31.6	31.7	29.0	29.0	29.0	PEAVY
444335	925658	100 97	.0	.0	.0	.0	24.3	21.5	40.5	19.1	13.5	9.3	ROTTY, R.
444337	925729	100 97	.0	.0	.0	.0	.0	2.3	4.9	4.8	.8	.7	PETERSON, D.
444339	925008	100 32	15.0	20.0	20.0	20.0	20.0	20.0	2.0	2.0	2.0	2.0	HASTINGS STATE HOSPI

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
444341	930000	100 97	0.0	0.0	0.0	0.0	0.0	0.0	52.8	32.3	25.0	25.0	FOX, H.J. 1
444356	930808	100 11	.0	.0	.0	.0	.0	.0	.0	57.1	51.1	33.1	ROSEMOUNT 7
444357	931220	100 44	136.9	151.5	158.2	162.0	155.5	121.6	128.2	138.5	138.0	152.5	FISCHER CONSTRUCTION 1
444400	931438	100 11	103.4	75.8	81.5	110.9	64.3	125.5	177.5	147.4	92.1	97.6	APPLE VALLEY 2
444403	930820	100 11	9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ROSEMOUNT 4
444403	930820	100 11	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ROSEMOUNT 5
444403	931122	100 44	8.3	12.4	12.6	12.6	12.7	11.5	10.9	11.8	12.0	14.2	NORTH STAR CONCRETE 1
444405	930041	100 97	.0	.0	.0	.0	.0	.0	.0	7.0	2.4	2.3	CORDES, R. 1
444406	925814	100 97	.0	.0	.0	.0	.0	.0	.0	25.2	14.4	13.0	FURLONG, T. 1
444407	931416	100 11	111.5	128.6	138.3	58.0	114.0	69.6	91.0	47.3	21.5	34.0	APPLE VALLEY 1
444409	925921	100 97	.0	.0	.0	.0	.0	.0	43.2	21.4	31.1	23.5	PINE BEND DEVEL. 1
444411	930856	100 11	12.9	16.6	47.5	25.1	37.4	31.0	35.0	36.6	29.7	40.9	ROSEMOUNT 6
444415	930730	100 11	32.0	33.5	29.5	51.1	47.3	45.0	40.0	34.6	45.7	40.3	ROSEMOUNT 3
444418	930733	100 11	11.9	12.7	4.7	8.2	8.9	9.0	.0	.0	.0	.0	ROSEMOUNT 2
444418	930733	65 11	9.0	8.2	2.1	7.0	5.9	5.9	.0	.0	.0	.0	ROSEMOUNT 1
444420	925246	100 11	.0	19.6	19.4	18.5	14.3	11.5	31.7	10.1	9.6	2.9	HASTINGS 5
444424	925213	100 11	264.0	269.8	299.4	290.1	232.9	220.9	243.2	252.4	216.6	202.4	HASTINGS 3
444428	925115	100 11	43.9	39.2	50.4	49.6	24.8	15.4	11.0	20.5	11.0	.7	HASTINGS 1
444428	925115	100 11	12.0	5.5	7.3	11.5	4.9	4.2	14.4	1.9	10.7	5.5	HASTINGS 2
444430	925636	100 97	.0	.0	.0	.0	.0	.0	.0	16.2	2.3	2.2	BAUER, F. 1
444432	930009	100 97	.0	.0	.0	.0	.0	.0	31.0	23.0	13.8	21.6	PINE BEND DEVEL. 1
444433	930055	100 97	.0	.0	.0	.0	.0	.0	36.6	23.2	37.0	23.0	PINE BEND DEVEL. 1
444442	931134	100 11	.0	.0	.0	.0	.0	.0	.0	.0	52.0	76.2	APPLE VALLEY 7
444442	931139	100 11	.0	.0	.0	.0	.0	.0	.0	80.5	126.8	119.5	APPLE VALLEY 6
444442	931148	100 11	.0	.0	.0	.0	.0	.0	97.0	77.2	117.4	109.8	APPLE VALLEY 5
444446	931143	100 11	.0	.0	23.5	163.2	151.9	182.3	251.0	256.9	189.0	208.5	APPLE VALLEY 4
444447	925947	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	PINE BEND DEVEL. 1
444452	930310	100 97	.0	.0	.0	.0	.0	.0	.0	3.0	1.7	7.6	PETERSON, D.L. 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
444455	925904	100	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	13.6	21.4	PINE BEND DEVEL 1
444455	930258	100	97	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.0	PETERSON, D.L. 1
444517	930714	100	48	29.3	29.3	13.6	14.4	16.1	20.8	36.8	68.0	68.3	70.2	BROCKWAY GLASS 1
444518	925535	100	97	.0	.0	.0	.0	.0	.0	.0	26.6	9.1	9.0	SORG, L. 1
444533	930141	100	46	429.6	463.8	481.8	472.8	415.0	378.5	359.3	358.9	338.2	335.6	ST PAUL AMMONIA PROD 2
444535	930124	100	46	60.2	61.1	61.1	57.2	43.6	43.4	44.2	44.2	44.3	44.3	NORTH STAR CHEMICALS 1
444539	930150	100	46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	LIQUID CARBONIC 1
444539	930150	100	46	17.2	.2	1.5	2.3	33.5	26.8	.1	3.9	1.7	.1	ST. PAUL AMMONIA PROD 1
444541	925511	100	97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SORG, LOREN 1
444541	931645	100	11	8.7	12.0	12.0	12.0	16.4	.0	.0	.0	.0	.0	BURNSVILLE 02
444544	925433	100	97	.0	.0	.0	.0	.0	.0	.0	32.0	32.0	4.6	TRAPP, H. 1
444557	931335	100	11	54.7	101.5	99.4	89.1	153.7	44.5	60.1	23.3	118.0	133.5	APPLE VALLEY 3
444558	930223	100	46	382.2	378.5	371.6	461.4	448.9	217.9	87.0	335.9	191.6	199.5	KOCH REFINING 1
444558	930230	100	46	565.6	650.1	458.3	489.3	355.8	84.9	376.7	192.0	192.0	202.0	KOCH REFINING 2
444608	930234	100	46	300.5	444.8	231.6	203.0	15.7	14.4	55.1	39.6	6.7	7.0	KOCH REFINING 3
444612	930927	65	81	.0	.0	.0	.0	.0	4.6	36.1	21.5	24.0	9.3	APPLE VALLEY GOLF CO 1
444645	931658	100	11	.0	.0	.0	99.6	198.5	153.9	135.0	135.0	135.0	135.0	BURNSVILLE 7
444645	931708	100	11	71.9	173.8	161.1	131.7	107.9	184.7	174.2	200.5	180.0	180.0	BURNSVILLE 4
444645	931708	100	11	.0	165.2	142.8	139.5	152.3	123.3	144.4	104.5	125.0	125.0	BURNSVILLE 5
444647	931649	100	11	.0	.0	109.0	136.9	89.5	128.9	50.0	50.0	50.0	50.0	BURNSVILLE 8
444654	931650	100	11	53.0	42.2	20.4	13.2	61.8	77.4	323.5	200.0	200.0	200.0	BURNSVILLE 1
444657	931644	100	11	155.7	45.8	13.6	25.4	30.0	52.8	62.9	225.0	225.0	225.0	BURNSVILLE 2
444700	931745	100	11	.0	24.2	31.1	16.6	24.0	.0	.0	.0	.0	.0	BURNSVILLE 04
444701	931738	100	44	254.4	301.5	385.2	394.5	323.3	155.4	372.5	118.8	547.5	54.8	KREAMER & SONS 1
444713	931628	100	11	.0	189.0	225.2	189.1	140.1	202.7	177.7	180.0	180.0	180.0	BURNSVILLE 6
444724	931602	100	11	.0	.0	.0	.0	.0	.0	15.0	15.0	15.0	15.0	BURNSVILLE 10
444727	931554	100	11	254.3	133.6	155.6	237.6	188.4	141.5	150.8	142.9	150.0	150.0	BURNSVILLE 3
444730	931526	100	41	.0	19.0	25.2	29.8	22.2	31.0	33.9	34.7	30.0	30.0	PEPSI COLA BOTTLING 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
444812	931417	100	11	60.7	37.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	BURNSVILLE 03
444824	931248	100	11	145.8	45.8	.0	.0	9.9	8.2	18.0	17.1	19.0	2.0	EAGAN 02
444825	931250	100	11	24.8	45.0	.0	.0	16.7	9.2	11.0	7.1	15.3	1.7	EAGAN 01
444838	931457	100	25	19.7	20.2	22.8	27.1	28.9	28.7	31.1	27.6	26.7	22.2	N.S.P. 1
444954	931042	100	11	.0	.0	270.6	155.3	151.0	119.2	114.0	132.0	25.3	183.8	EAGAN 2
444957	930718	100	11	.8	9.0	1.8	4.2	3.6	5.1	1.0	.3	.3	.3	EAGAN 03
445000	931042	100	11	169.3	200.0	250.0	300.0	400.0	332.5	265.0	245.7	284.8	184.3	EAGAN 1
445000	931049	100	11	.0	.0	.0	2.8	8.4	181.8	195.7	88.6	59.8	53.3	EAGAN 3
445003	930223	100	11	87.3	90.0	108.2	105.2	130.9	120.3	129.9	61.3	73.1	49.0	INVER GROVE HTS 2
445003	931051	100	11	.0	.0	.0	.0	.0	.0	.0	252.4	392.2	222.5	EAGAN 4
445037	930208	100	11	71.0	85.6	97.3	107.9	79.4	105.4	119.4	111.6	85.0	100.3	INVER GROVE HTS 1
445050	931102	100	31	20.0	20.0	20.0	20.0	20.0	20.3	20.3	20.3	.7	.7	LULL ENGINEERING 1
445052	930241	100	11	.0	120.0	120.0	120.0	121.5	128.2	119.5	191.4	143.3	170.0	INVER GROVE HTS 4
445052	930241	100	11	.0	10.0	10.0	10.0	5.1	10.1	105.6	49.7	124.9	75.0	INVER GROVE HTS 3
445118	930919	100	41	12.7	18.3	24.0	24.5	26.2	27.5	33.2	35.7	38.2	48.3	COCA COLA 1
445153	930226	100	11	.0	.0	.0	.0	.0	172.0	46.8	55.0	53.1	21.6	SOUTH ST PAUL 9
445208	930717	100	11	49.8	69.0	62.6	58.8	60.8	37.6	37.9	18.6	28.0	28.0	MENDOTA HTS 1
445230	930155	100	11	245.7	196.8	355.3	317.7	300.9	190.9	170.6	45.0	43.6	90.2	SOUTH ST PAUL 4
445241	930154	100	31	19.7	20.0	20.4	19.6	7.1	6.6	21.8	15.5	23.2	25.0	STANDARD BUILDING 1
445245	930732	65	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MENDOTA HEIGHTS 2
445254	930238	70	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SOUTH ST PAUL 01
445254	930238	100	11	161.9	151.8	54.6	163.5	151.4	190.9	106.2	165.0	164.7	109.3	SOUTH ST PAUL 1
445255	930132	100	11	.0	.0	60.0	63.2	285.6	165.3	102.4	140.0	139.9	131.2	SOUTH ST PAUL 7
445311	930153	100	41	300.0	300.0	300.0	300.0	300.0	300.0	330.0	330.0	330.0	321.7	ST PAUL UNION STYD 111
445316	930334	100	11	.0	.0	.0	.0	.0	189.2	185.7	170.0	167.7	238.2	SOUTH ST PAUL 8
445323	930134	70	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ARMOUR AND CO 1
445326	930134	70	41	350.0	245.0	245.0	245.0	245.0	245.0	175.0	175.0	175.0	.0	ARMOUR & CO 2
445330	930131	70	41	245.0	175.0	175.0	175.0	175.0	175.0	140.0	140.0	140.0	.0	ARMOUR & CO 6

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
445330	930152 100 41		12.0	126.0	26.8	93.6	197.2	185.1	171.9	124.6	90.0	85.7	ST PAUL UNION STWD 2
445330	930152 100 41		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST PAUL UNION STKYD 84
445331	930141 100 41		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST PAUL UNION STKYD 1
445334	930201 100 41		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 01
445336	930139 100 41		514.1	497.9	71.8	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 6
445338	930139 100 41		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT AND CO. 4
445339	930155 70 41		10.5	10.5	10.5	6.1	10.5	9.1	7.0	7.0	7.0	7.0	RIFKIN & SONS 2
445339	930155 100 41		28.4	34.4	37.2	24.5	23.1	30.0	10.0	10.0	10.0	10.0	RIFKIN & SONS 1
445342	930213 70 41		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO 02
445347	930228 100 11		509.6	514.0	416.5	152.1	229.2	118.0	310.1	284.0	284.1	173.7	SOUTH ST PAUL 3
445400	930719 100 11		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MENDOTA HEIGHTS 3
445406	930328 100 11		.0	.0	.0	128.8	168.8	174.2	115.0	170.0	168.3	122.4	SOUTH ST PAUL 6
445417	930737 100 31		19.4	26.0	35.1	26.0	19.0	22.4	21.7	9.6	17.1	14.3	ECONOMIC LABORATORY 1
445425	930249 70 11		45.7	59.0	101.9	.0	.0	.0	.0	.0	.0	.0	SOUTH ST PAUL 02
445442	930326 100 11		.0	.0	.0	168.7	140.0	128.5	101.9	30.0	27.4	46.9	SOUTH ST PAUL 2
DAKOTA COUNTY TOTALS			7748.9	8411.5	8102.4	8302.8	8780.0	8500.2	12128.7	12495.1	11708.6	10030.0	
HENNEPIN COUNTY													
444815	931922 100 81		43.6	39.3	45.0	41.0	43.4	22.4	78.6	51.7	57.4	45.0	BLOOMINGTON GOLF COU 1
444939	932035 100 11		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BLOOMINGTON 4
444952	931828 100 31		75.1	73.2	73.1	71.5	60.6	61.7	65.7	63.9	81.0	75.0	JOHN DEERE CO 1
445006	932057 100 11		.0	.0	.0	.0	488.0	745.2	850.0	850.0	956.4	952.6	BLOOMINGTON 2
445009	932053 100 11		.0	.0	.0	.0	549.5	806.0	805.5	659.5	672.3	338.1	BLOOMINGTON 1
445037	932146 100 61		24.0	15.0	15.0	15.0	14.6	15.5	19.0	21.1	19.0	16.8	HENNEPIN CO PARK RES 1
445121	931351 100 31		.0	.0	.0	.0	4.5	8.9	11.4	13.2	19.4	22.8	CONTROL DATA CORP 1
445127	931327 100 31		.0	.0	.0	5.7	37.8	54.3	63.3	49.0	50.0	53.0	LANDMARK DEVELOPMENT 1

Table 4.--Annual withdrawals from the Prairie du Chien-Jordan aquifer--Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY--Continued													
445133	932009	100 40	0.0	0.0	11.8	28.1	24.3	23.1	25.0	25.0	25.0	24.3	LAKESIDE INDUSTRIES 1
445135	932729	100 11	.0	.0	80.0	80.0	80.0	80.0	180.0	180.0	180.0	221.8	EDEN PRAIRIE 2
445137	932754	100 40	83.6	105.9	123.5	119.6	102.0	87.8	71.9	61.7	58.7	47.9	CHAR-LYNN CO 1
445139	932600	100 31	8.5	11.1	8.3	17.2	17.9	18.1	22.9	22.4	28.7	25.0	ROSEMOUNT ENGINEERIN 2
445142	932726	100 11	.0	80.0	80.0	80.0	80.0	80.0	180.0	180.0	180.0	177.3	EDEN PRAIRIE 1
445153	932021	100 11	250.0	165.1	220.3	326.5	277.0	393.9	397.3	469.4	465.2	444.0	EDINA 11
445159	932252	100 11	35.6	11.0	11.6	46.4	30.6	20.8	46.4	4.8	16.9	23.0	EDINA 14
445204	931915	100 11	.0	.0	.0	.0	21.2	32.7	49.8	18.2	18.3	29.0	EDINA 18
445243	931939	100 31	116.0	108.2	128.8	42.0	153.0	108.0	62.0	62.0	64.9	58.3	DONALDSON'S 1
445244	931211	100 31	232.2	260.3	233.2	271.3	198.7	203.3	130.8	279.8	293.0	226.5	NORTHWEST ORIENT 2
445246	931217	100 31	232.2	221.0	216.1	272.1	295.0	126.6	231.9	247.9	268.2	230.1	NORTHWEST ORIENT 1
445246	931914	100 11	57.8	60.5	39.7	43.8	61.8	29.5	86.8	36.0	28.1	22.0	EDINA 5
445251	931931	100 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	DAYTONS 2
445251	931931	100 31	72.9	23.0	26.6	19.7	23.0	23.0	25.0	25.0	25.0	25.0	DAYTONS 1
445251	931931	100 31	93.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	DAYTONS 3
445252	931722	100 61	.0	52.9	78.8	69.8	76.7	37.8	75.8	26.4	49.0	70.6	WOOD LAKE PARK 1
445300	931223	100 31	189.6	51.0	90.0	90.0	90.0	195.0	173.6	203.8	201.1	152.5	MPLS-ST. PAUL INT. AI 2
445300	931223	100 31	80.0	157.0	126.6	117.6	100.5	90.0	100.0	100.0	100.0	16.9	MPLS-ST. PAUL INT. AI 1
445301	932137	100 11	36.1	66.6	12.8	37.6	51.4	26.3	64.2	16.0	26.7	6.8	EDINA 8
445302	931935	100 32	85.2	92.2	86.9	108.2	101.5	127.2	178.2	102.8	113.9	109.6	SOUTHDALE MEDICAL 1
445303	931600	100 11	304.9	283.5	287.7	296.6	284.3	293.0	300.0	343.6	185.1	300.0	RICHFIELD 6
445303	931600	100 11	309.9	283.5	287.7	296.6	284.3	313.1	300.0	300.0	300.0	300.0	RICHFIELD 5
445307	931616	100 61	28.1	30.9	35.3	43.5	45.5	27.1	53.7	34.1	28.9	32.9	MILNER POND IMPROVEM 1
445307	931934	100 32	88.0	79.0	79.0	79.0	79.0	79.0	44.0	44.0	44.0	44.0	FAIRVIEW HOSP 1
445307	931934	100 32	.0	.0	.0	.0	.0	44.0	44.0	44.0	44.0	44.0	FAIRVIEW HOSP. 2
445319	932315	100 11	74.8	84.0	159.6	249.4	7.4	183.7	306.4	207.1	235.2	250.0	EDINA 16
445324	931637	100 11	161.4	159.1	171.6	192.7	186.3	146.9	175.0	175.0	175.0	175.0	RICHFIELD 2
445324	931637	100 11	161.4	159.1	171.6	192.7	186.3	146.9	229.4	177.5	175.0	175.0	RICHFIELD 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
445325	931601	100	11	213.5	205.6	186.0	240.6	246.7	234.1	321.1	205.1	225.0	225.0	RICHFIELD 3
445325	931601	100	11	213.5	223.0	223.0	223.0	223.0	223.0	225.0	225.0	225.0	225.0	RICHFIELD 4
445345	932048	100	11	264.7	362.2	267.6	229.0	261.3	140.1	210.5	257.0	250.4	323.0	EDINA 6
445347	932010	100	11	.0	8.8	15.2	53.4	51.1	35.4	118.1	22.3	39.1	60.0	EDINA 17
445353	932605	100	11	.0	.0	.0	200.0	250.0	300.0	350.0	315.0	350.0	300.0	MINNETONKA 13
445353	932605	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MINNETONKA 13
445356	932038	100	11	61.4	49.9	28.7	45.1	63.0	148.8	167.7	41.5	39.2	30.5	EDINA 4
445409	933428	100	11	56.4	58.6	60.2	59.8	13.0	8.7	35.5	50.5	68.0	44.1	EXCELSIOR 2
445409	933429	100	11	56.4	58.6	60.2	59.8	13.0	8.7	35.5	50.5	68.0	44.1	EXCELSIOR 1
445409	933429	100	11	.0	.0	.0	.0	92.2	88.8	60.4	33.7	50.0	51.8	EXCELSIOR 3
445418	932912	100	11	54.3	60.4	25.6	6.5	.0	.0	.0	.0	.0	.0	MINNETONKA 5
445421	932027	100	81	50.0	50.0	50.0	50.0	50.0	50.0	25.0	25.0	25.0	16.2	EDINA COUNTRY CLUB 1
445424	932118	100	11	53.4	28.7	18.3	33.1	33.5	26.7	72.6	20.4	35.4	14.3	EDINA 7
445424	932903	100	11	68.4	60.3	10.0	.0	.0	.0	.0	.0	.0	.0	MINNETONKA 4
445430	931954	100	11	31.0	20.8	10.3	20.5	19.6	16.0	39.1	16.0	11.8	6.6	EDINA 3
445432	933002	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MINNETONKA 15
445435	933001	100	11	.0	.0	.0	.0	.0	.0	100.0	150.0	150.0	300.0	MINNETONKA 15
445442	932026	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	EDINA 1
445442	932026	95	11	371.3	379.1	369.4	431.8	435.2	376.8	405.2	421.2	423.2	383.4	EDINA 2
445445	932742	100	11	.0	7.9	135.2	226.7	224.8	237.5	350.0	300.0	300.0	300.0	MINNETONKA 11
445447	932210	100	11	56.6	107.2	47.3	105.8	140.2	101.8	169.4	96.1	59.4	108.0	EDINA 15
445451	933538	100	11	.0	.0	.0	.0	15.0	15.0	25.0	25.0	25.0	31.1	TONKA BAY 2
445451	933538	100	11	.0	.0	.0	15.0	15.0	15.0	25.0	25.0	25.0	31.1	TONKA BAY 1
445503	932228	65	81	34.2	22.8	14.1	23.2	21.4	8.6	.0	.0	.0	.0	INTERLACHEN COUNTRY 1
445503	932228	100	81	.0	.0	.0	.0	.0	.0	55.0	55.0	55.0	55.0	INTERLACHEN COUNTRY 1
445508	932403	100	31	113.3	96.0	96.0	96.0	91.1	92.6	81.7	73.4	89.6	86.6	RED OWL STORE 1
445511	932724	100	11	51.3	49.1	10.3	16.3	9.5	.0	.0	.0	.0	.0	MINNETONKA 2
445512	932340	100	11	42.1	257.4	162.9	90.2	172.3	253.6	385.6	204.8	17.6	203.0	EDINA 13

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
445513	932136	100	11	215.7	171.7	129.3	137.3	74.0	63.8	102.4	55.5	22.2	18.5	ST LOUIS PARK 14
445514	932443	95	11	204.9	228.2	240.8	189.3	214.7	175.2	47.5	47.5	47.5	47.5	HOPKINS 1
445516	932715	100	11	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MINNETONKA 1
445519	932111	100	11	190.0	230.0	230.0	230.0	230.0	228.8	349.6	354.5	467.6	451.3	ST LOUIS PARK 6
445529	932434	95	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	HOPKINS 2
445531	932652	100	11	.0	.0	.0	1.8	11.2	48.0	50.0	60.0	70.0	30.0	MINNETONKA 14
445538	932601	100	11	5.0	1.0	1.0	1.0	1.0	1.0	.0	.0	.0	.0	MINNETONKA 8
445547	932309	100	11	146.8	139.1	109.7	113.4	120.0	184.4	200.0	133.2	200.0	200.0	HOPKINS 3
445548	932022	100	11	70.0	30.0	30.0	30.0	30.0	28.6	91.7	49.2	120.9	116.3	ST LOUIS PARK 4
445548	932655	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MINNETONKA 14
445602	932450	100	11	205.3	196.1	211.2	261.5	211.1	184.4	200.0	200.0	169.2	200.0	HOPKINS 5
445604	932218	100	47	67.0	54.0	46.0	11.0	6.0	10.0	12.0	15.0	15.0	15.0	FLAME INDUSTRIES 1
445607	932440	100	11	.0	.0	.0	.0	.0	.0	.0	.0	169.2	200.0	HOPKINS 6
445608	932504	100	11	205.3	196.1	211.2	261.5	230.0	184.4	200.0	200.0	200.0	200.0	HOPKINS 4
445608	933654	100	11	.0	.0	16.4	32.7	38.0	42.1	56.2	53.0	55.8	54.6	ORONO 1
445609	932424	100	81	35.1	29.2	23.2	27.8	30.8	26.1	47.2	28.2	27.2	22.6	OAK RIDGE COUNTRY CL 1
445610	932123	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST LOUIS PARK 0
445610	933804	100	11	15.5	17.6	22.0	22.4	23.6	27.8	38.0	32.9	38.0	38.0	SPRING PARK 2
445611	932118	100	48	60.2	62.6	85.5	55.3	85.1	57.9	107.4	75.1	90.0	69.5	MINNESOTA RUBBER CO 2
445611	932118	100	48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MINNESOTA RUBBER CO 1
445612	931759	100	97	20.0	20.0	20.0	20.0	23.0	20.0	20.0	20.0	20.0	20.0	LAKEWOOD CEMETARY 1
445623	933501	100	11	10.0	15.0	15.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0	MINNETONKA BEACH 2
445625	931352	60	41	3.4	1.0	.0	.1	.0	.0	1.8	1.5	1.2	1.1	ARCHER DANIELS MIDLA 1
445630	933456	100	11	10.0	15.0	15.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0	MINNETONKA BEACH 1
445631	932304	100	11	150.0	50.0	50.0	50.0	50.0	43.7	151.5	14.1	38.7	20.7	ST LOUIS PARK 5
445634	931915	100	81	37.3	31.3	27.0	28.8	47.7	41.4	72.4	36.4	46.8	48.4	MINIKAHDA CLUB 1
445634	932745	100	11	8.3	7.3	7.8	13.3	24.3	2.4	10.0	10.0	10.0	10.0	MINNETONKA 10
445646	932146	100	32	139.8	164.9	153.7	171.7	138.7	196.4	236.2	237.4	195.6	223.0	METHODIST HOSPITAL 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445651	931905	100 31	90.8	82.4	69.4	69.4	39.1	32.8	43.2	48.4	51.3	43.4	AMERICAN HARDWARE MU 1
445659	931751	100 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NORRIS CREAMERIES IN 1
445659	931751	100 41	20.5	26.9	34.5	27.0	49.7	3.3	17.8	19.8	20.7	16.0	NORRIS CREAMERIES 2
445700	931410	100 47	64.1	59.1	44.3	.0	.0	.0	.0	.0	.0	.0	WHITE FARM EQUIP CO 3
445700	931724	95 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SANITARY ICE 1
445700	932213	100 11	180.0	120.0	120.0	120.0	120.0	30.3	86.2	14.7	49.3	.0	ST LOUIS PARK 10
445703	931645	100 41	30.0	10.0	10.0	12.3	6.8	10.0	10.0	10.0	.0	.0	NORTHLAND MILK 2
445703	932202	100 11	20.0	233.0	258.6	265.7	237.4	254.5	232.6	179.7	118.0	10.4	ST LOUIS PARK 15
445703	932454	100 11	14.7	28.6	34.5	45.0	59.0	58.3	100.0	105.8	125.0	150.0	MINNETONKA 7
445703	932454	100 11	14.7	28.6	34.5	45.0	59.0	58.3	100.0	105.8	125.0	150.0	MINNETONKA 6
445714	931419	95 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHITE FARM EQUIP 1
445714	931544	100 32	80.9	51.8	53.2	63.8	64.0	99.8	102.3	103.1	77.9	188.3	N.W. HOSPITAL 2
445714	931544	100 32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	N.W. HOSPITAL 1
445714	931544	100 32	80.9	103.7	106.4	127.5	128.1	108.8	104.5	101.7	108.2	56.8	N.W. HOSPITAL 3
445715	932220	100 48	74.1	51.4	70.1	81.3	84.1	37.5	59.9	81.8	130.7	124.2	MCCOURTNEY'S PLASTIC 1
445718	931401	100 47	33.8	31.7	36.9	36.0	46.0	10.2	42.5	35.9	38.1	32.0	FLOUR CITY ARCHT MET 1
445719	931333	100 47	38.6	38.6	43.5	58.4	62.6	37.5	4.3	27.6	29.7	18.0	HIAWATHA METALCRAFT 2
445719	931333	100 47	18.8	2.0	.4	.3	1.3	.0	.0	.0	.0	.0	HIAWATHA METALCRAFT 1
445719	931333	100 47	76.9	127.8	123.8	72.7	167.5	143.4	115.1	105.1	148.9	140.0	HIAWATHA METALCRAFT 3
445726	931639	95 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR LAKE ICE 1
445728	934036	95 11	.0	.0	.0	1.8	6.8	7.6	8.0	8.4	8.0	8.0	MINNETRISTA 1
445729	932218	100 11	80.0	15.0	15.0	15.0	15.0	15.0	21.8	1.9	18.3	.0	ST LOUIS PARK 7
445730	932222	100 11	100.0	60.0	60.0	60.0	60.0	15.5	21.8	1.9	14.6	.0	ST LOUIS PARK 9
445733	931550	100 32	46.5	51.2	42.7	41.4	32.8	42.2	35.2	1.5	7.5	.0	MT.SINAI HOSPITAL 1
445733	932143	100 41	42.3	51.7	51.8	56.5	50.9	60.4	66.3	53.8	47.5	13.0	FOOD PRODUCERS 1
445736	931448	100 47	26.3	24.7	23.7	19.0	8.6	.5	9.4	.0	.0	.0	NUMERIC MACHINING 1
445747	932727	100 11	7.3	3.8	2.0	2.5	3.0	2.1	2.6	.0	.0	.0	MINNETONKA 9
445750	932348	100 11	.0	.0	.0	.0	7.0	486.7	442.3	485.9	422.5	388.6	ST LOUIS PARK 16

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445804	931323	100 32	183.9	146.2	35.5	30.0	30.0	15.6	11.3	10.0	10.0	10.0	ST MARYS HOSPITAL 2
445804	931413	60 32	13.5	10.1	8.8	9.0	10.8	9.3	6.8	7.5	5.7	2.6	ST.MARY'S HOSPITAL 1
445806	931935	100 31	35.8	52.0	67.1	53.9	52.0	52.0	36.2	3.5	12.0	26.0	PRUDENTIAL INSURANCE 2
445807	931654	100 32	23.5	25.5	22.6	5.8	8.5	16.0	15.0	15.0	15.0	15.0	EITTEL HOSPITAL 2
445807	931654	100 32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	EITTEL HOSPITAL 1
445807	932410	100 11	250.0	250.0	250.0	250.0	250.0	134.7	379.0	418.1	341.9	378.9	ST LOUIS PARK 8
445808	931440	100 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CREST ICE CREAM 1
445808	931935	100 31	35.8	52.0	67.1	53.9	52.0	52.0	36.0	13.5	12.0	26.0	PRUDENTIAL INSURANCE 1
445808	932650	100 11	.0	.0	.5	1.0	6.6	11.5	10.0	10.0	10.0	10.0	MINNETONKA 12
445810	931247	100 47	.0	.0	.0	1.9	15.3	16.8	14.5	18.9	21.5	18.5	LEWIS BOLT & NUT CO 1
445817	931612	100 32	137.0	152.4	104.1	74.2	71.3	45.3	48.1	49.9	50.4	30.4	CURTIS HOTEL 2
445817	931616	70 31	57.9	75.6	70.0	101.7	91.7	80.5	81.9	82.6	85.4	75.6	DONALDSONS 2
445817	931616	65 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	DONALDSON'S 1
445818	931532	100 32	84.9	115.0	67.6	82.0	63.3	82.0	.0	.0	.0	.0	ST. BARNABAS HOSP 1
445824	931308	100 42	129.1	119.0	103.7	109.3	96.6	85.3	86.1	82.1	88.3	97.0	CHAMPTON PACKAGES 1
445825	931524	100 40	27.9	30.4	29.0	32.0	32.0	36.2	35.0	1.0	.0	.0	CHIC. ROCK ISLAND & 2
445826	931627	100 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ROTHSCHILD YOUNG-QUI 1
445826	931627	100 31	26.6	25.1	27.5	27.3	25.0	31.5	14.6	28.4	22.2	25.0	ROTHSCHILD YOUNG-QUI 2
445827	931505	100 48	34.4	44.5	33.0	36.1	27.0	24.4	17.9	24.5	5.7	15.0	JENSON PRINTING 1
445827	931607	100 31	50.8	53.2	51.5	52.8	52.2	52.0	45.0	45.0	45.0	45.0	LUTHERAN BROTHERHOOD 1
445827	931609	100 31	61.9	107.0	138.2	97.3	85.8	120.8	178.7	108.7	130.0	130.0	NORTHSTAR CENTER 1
445827	933048	100 11	.0	.0	75.0	75.0	71.7	68.0	78.6	75.0	79.7	70.8	WAYZATA 4
445828	931316	100 41	61.9	60.3	60.5	48.0	40.0	41.7	48.6	59.8	100.8	50.0	SPENCER-KELLOGG 1
445828	931612	100 31	90.2	92.1	16.1	.5	1.7	5.8	64.3	6.6	3.5	25.0	BAKER PROP. 3
445828	931612	100 31	103.8	143.9	63.6	128.1	102.2	101.2	66.8	30.0	23.5	30.0	BAKER PROP. 1
445828	931633	95 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	AMERICAN LINEN 1
445829	931250	100 41	314.4	179.2	24.0	.2	24.0	.0	.0	.0	.0	.0	KURTH MALTING 2
445829	931250	100 41	151.0	24.2	90.0	90.0	90.0	.0	.0	.0	.0	.0	KURTH MALTING CO. 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445830	931543	100 31	210.3	176.0	135.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	MPLS STAR & TRIBUNE 1
445830	931606	100 31	261.2	243.0	205.3	187.2	337.2	243.0	205.0	205.0	205.0	205.0	NORTHSTAR CENTER 2
445830	931614	100 31	180.9	217.0	56.5	.0	.0	.3	12.7	20.0	24.3	20.0	BAKER PROP. 2
445830	931623	100 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MEDICAL ART BLDG 1
445830	931623	100 31	82.6	74.8	73.3	76.3	78.0	89.8	90.0	87.5	69.6	65.4	MEDICAL ARTS BLDG 2
445831	931633	65 31	13.8	12.1	11.5	12.7	13.3	13.0	.0	.0	.0	.0	Y.M.C.A. 1
445833	931618	100 31	.0	.0	.0	.0	.0	.0	.0	.0	20.0	44.6	NORTHWESTERN NATL BA 3
445833	931618	100 31	80.1	82.5	72.0	60.3	38.6	58.9	56.9	.5	.0	.0	NORTHWESTERN NATL BA 1
445833	932347	100 41	111.6	222.6	204.5	204.8	131.8	57.6	99.9	110.0	110.0	117.9	GENERAL MILLS 1
445833	932347	100 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GENERAL MILLS 4
445834	931344	100 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	COCA COLA BOTTLING 1
445834	931606	100 31	50.3	46.9	45.2	45.5	33.5	32.3	57.9	29.2	34.0	21.0	1ST NAT'L BANK 1
445834	931606	100 31	88.3	110.0	123.4	147.3	60.4	110.0	163.0	163.0	163.0	163.0	NORTHSTAR CENTER 3
445834	931606	100 31	50.3	46.9	45.2	45.5	33.5	32.3	57.9	29.2	34.0	21.0	1ST NAT'L BANK 2
445834	931606	100 31	50.3	46.9	45.2	45.5	33.5	32.3	57.9	29.2	34.0	21.0	1ST NAT'L BANK 3
445834	931617	100 31	241.1	185.3	188.8	214.9	291.5	200.0	174.7	333.2	167.4	95.0	NORTHWESTERN NATL BA 2
445834	931625	100 31	196.0	236.0	236.0	236.0	235.7	236.0	230.0	230.0	230.0	230.0	DAYTON'S 2
445834	931625	95 31	9.9	1.9	1.9	1.9	1.5	14.6	5.7	.0	4.7	4.0	DAYTON'S 3
445834	931625	95 31	76.0	38.0	38.0	38.0	38.1	70.0	75.0	71.8	74.7	78.0	DAYTON'S 1
445835	931639	95 31	29.6	28.5	28.5	28.5	30.8	28.5	23.8	23.8	23.8	23.8	ORPHEUM THRE 1
445836	931602	100 31	28.9	15.7	53.8	62.8	42.8	32.0	46.6	24.6	27.0	41.8	N.W. BELL TELEPHONE 3
445836	931602	95 31	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N.W. BELL TELEPHONE 1
445836	931602	95 31	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N.W. BELL TELEPHONE 2
445836	931614	100 31	92.8	98.4	89.7	89.7	40.4	41.0	43.6	44.4	46.4	42.7	FARMERS & MECHANICS 1
445836	931619	100 31	10.6	14.3	14.5	.0	.0	.0	.0	.0	.0	.0	F.W. WOOLWORTH 1
445837	931611	100 31	51.0	49.0	40.3	49.6	40.7	45.0	30.0	30.0	30.0	30.0	MN. FEDERAL BLDG. 1
445838	931611	95 31	30.4	20.6	22.6	26.3	25.0	23.8	16.8	16.6	17.3	15.7	SOO LINE BLDG 1
445838	931635	100 31	2.2	1.7	1.6	2.6	47.7	24.8	1.6	2.0	1.6	2.8	NW NAT'L BANK LINCOL 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
445839	931606	100	32	47.8	36.0	40.1	21.0	45.4	36.0	30.0	30.0	30.0	30.0	MPLS ATHLETIC CLUB 2
445839	931606	100	32	21.0	28.0	28.0	34.8	28.0	28.0	30.0	30.0	30.0	30.0	MPLS ATHLETIC CLUB 1
445840	931549	100	31	35.1	42.2	47.0	48.2	38.7	39.4	40.4	35.5	52.9	43.0	MPLS GRAIN EXCHANGE 1
445840	931618	100	31	12.8	12.9	18.6	20.7	19.5	22.0	22.0	14.9	27.2	25.0	610 CORPORATION 1
445840	932347	100	41	111.6	222.6	204.5	204.8	131.8	57.6	99.9	109.8	115.0	117.9	GENERAL MILLS 2
445840	932347	100	41	274.5	149.1	160.0	171.1	121.3	149.7	168.7	163.7	133.0	113.8	GENERAL MILLS 3
445841	931558	100	31	22.5	20.3	19.9	20.6	21.2	20.0	20.0	20.0	20.0	20.0	MPLS BLDG OF PUB. WE 1
445841	931611	100	31	75.1	93.0	94.5	55.0	154.4	174.8	209.6	10.4	201.4	5.8	NATIONAL CITY BANK 2
445841	931617	100	31	20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	610 CORPORATION 1
445841	931620	100	31	10.9	10.0	7.8	13.0	8.8	11.5	9.3	6.5	3.5	.0	JUSTER BROS 1
445841	931625	100	32	26.7	25.3	23.1	.0	.0	.0	.0	.0	.0	.0	FORUM CAFETERIA 1
445842	931622	95	32	12.2	12.3	17.7	19.7	18.5	.0	.0	.0	.0	.0	DYCKMAN HOTEL 2
445842	931622	100	32	20.0	13.2	9.4	10.7	15.0	12.0	.0	.0	.0	.0	DYCKMAN HOTEL 1
445845	931611	100	31	61.2	55.7	70.0	65.0	65.3	67.9	70.3	65.0	65.0	44.3	POWERS DRY GOODS 2
445845	931611	95	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	POWERS DRY GOODS 1
445845	931617	100	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MPLS CHAMBER OF COMM 1
445845	931617	95	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MPLS CHAMBER OF COMM 2
445845	931623	100	31	67.0	57.2	52.9	55.9	53.4	61.2	68.5	12.9	52.3	57.4	MFG. HANOVER TRUST-P 1
445847	931612	100	31	25.3	24.8	47.5	52.0	40.7	51.4	48.2	54.0	60.1	69.0	N.S.P BLDG 2
445847	931612	100	31	28.4	23.6	46.3	55.6	61.0	56.2	55.0	51.8	64.3	70.2	N.S.P BUILDING 1
445847	931652	100	47	44.5	68.9	54.0	54.0	86.6	7.0	5.0	5.6	5.0	5.0	N.W. AUTOMATIC PRODU 1
445847	931730	100	41	10.0	10.0	10.0	10.0	10.0	10.0	.0	.0	.0	.0	NORTHLAND MILK 1
445847	931730	95	41	119.7	119.4	93.1	88.4	100.7	100.7	.0	.0	.0	.0	TWIN CITY MILK PROD 1
445848	931605	100	31	.0	.0	.0	55.3	96.5	107.1	36.8	232.5	15.3	40.0	FEDERAL RESERVE BANK 3
445848	931616	95	32	6.7	1.9	4.8	4.8	4.8	4.8	1.0	1.0	1.0	1.0	ANDREWS HOTEL 1
445849	931659	65	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	KEMPS ICE CREAM 2
445849	931659	65	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	KEMPS ICE CREAM 1
445850	931347	100	41	12.1	13.5	17.1	12.6	15.2	12.5	12.7	11.6	14.2	14.7	MCLAUGHLIN GORMLEY K 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445850	931720	100 48	78.3	74.2	83.7	81.0	81.4	74.5	80.0	51.6	38.5	50.0	MUNSINGWEAR 1
445850	931720	100 48	4.4	10.0	7.9	6.0	2.5	7.9	6.0	4.1	2.0	1.0	MUNSINGWEAR 2
445852	931549	95 31	120.4	104.0	.0	.0	.0	.0	.0	.0	.0	.0	POST OFFICE BLDG 1
445853	931603	100 31	.0	.0	141.0	235.7	145.8	14.9	.4	.0	.0	80.0	FEDERAL RESERVE BANK 2
445853	931603	100 31	75.0	93.2	94.5	55.4	50.0	.0	.0	.0	.0	.0	FEDERAL RESERVE BANK 1
445854	931607	100 32	38.8	35.7	29.9	27.2	31.0	31.0	15.0	15.0	15.0	15.0	SOULS HARBOR 2
445855	931546	100 31	68.0	68.0	55.8	70.6	34.0	38.7	46.0	70.9	81.2	86.6	N.W. NATIONAL LIFE I 1
445855	931656	100 31	20.4	42.0	42.0	42.0	42.0	42.0	45.0	45.0	45.0	45.0	GAMBLE ROBINSON 1
445855	933205	100 81	41.0	44.0	44.0	44.0	41.9	46.8	49.1	31.0	28.5	29.7	WAYZATA COUNTRY CLUB 1
445857	931632	65 40	51.9	51.9	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	BELL COLD STORAGE 2
445857	931632	65 40	40.6	51.9	54.7	59.3	54.0	55.3	55.3	55.3	55.3	55.3	BELL COLD STORAGE 1
445858	931714	95 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR LAKE ICE 2
445859	931629	100 31	20.4	21.0	21.2	20.8	20.9	.0	.0	.0	.0	.0	GAMBLE ROBINSON 2
445901	931502	100 41	82.5	75.2	51.3	65.4	41.6	41.0	45.9	53.9	50.0	50.0	PILLSBURY CO 1
445905	933323	100 11	19.2	8.4	2.6	16.8	15.9	18.4	12.0	19.6	18.6	23.3	LONG LAKE 2
445906	931538	100 41	.7	.5	40.8	39.2	38.3	41.0	30.0	30.0	30.0	30.0	DURKEE ATWOOD CO 1
445906	932138	100 40	59.8	40.9	48.1	62.8	43.9	52.6	57.9	47.4	41.2	48.2	PAKO CORP 1
445906	932925	100 11	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	PLYMOUTH 0
445906	933424	100 11	42.4	51.9	66.0	55.7	45.9	46.3	68.7	52.1	59.6	51.7	LONG LAKE 1
445908	932016	65 40	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	SCHAPER MFG. 2
445909	931631	100 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SUNSHINE BISCUIT 1
445911	932022	65 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SCHAPER MFG 1
445912	931514	95 41	20.0	19.0	20.6	20.6	20.6	19.0	9.5	9.5	2.0	.0	NORTHLAND FOREMOST 1
445913	931525	100 41	51.0	33.0	38.6	26.8	31.9	33.3	38.6	38.2	4.2	4.0	COCA COLA BOTTLING 1
445914	931528	100 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WESTLING MANUFACTURI 2
445915	931618	100 40	9.6	11.8	10.9	10.6	10.7	11.0	7.0	7.0	7.0	7.0	LINDSAY BROS CO 1
445927	931407	100 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SUPERIOR PLATING 1
445928	931422	100 47	40.0	10.0	10.0	10.0	10.0	10.0	1.0	1.0	1.0	1.0	METALLURGICAL INC 2

Table 4.--Annual withdrawals from the Prairie du Chien-Jordan aquifer--Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY--Continued														
445932	931322	100	41	28.4	50.0	47.8	11.2	27.0	35.6	39.6	20.2	21.5	27.0	GENERAL MILLS 1
445932	931342	100	31	32.7	30.0	35.1	31.0	27.9	31.0	25.0	25.0	25.0	25.0	BROWN AND BIGELOW 1
445932	931547	100	40	192.9	21.0	24.0	25.0	13.0	.0	.0	.0	.0	.0	B.F. NELSON MFG. 1
445932	931547	100	40	192.9	118.0	136.0	144.0	73.0	.0	.0	.0	.0	.0	B.F. NELSON MFG. 2
445933	933053	100	11	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	PLYMOUTH 0
445936	932327	100	41	132.5	104.8	115.9	113.6	72.1	82.1	105.7	84.0	84.0	130.9	GENERAL MILLS 1
445936	932327	100	41	132.5	104.8	115.9	113.6	72.1	82.1	105.7	90.0	90.0	38.5	GENERAL MILLS 2
445943	932337	100	41	132.5	104.8	115.9	113.6	72.1	82.1	105.7	76.6	40.0	38.5	GENERAL MILLS 3
445949	932937	100	11	19.9	35.7	22.6	33.3	25.8	8.2	30.0	30.0	20.0	20.0	MINNETONKA 3
445951	931243	100	40	68.6	92.9	109.3	88.7	77.8	94.9	97.0	96.2	105.5	96.0	AMERICAN LINEN 1
445951	932657	100	11	35.0	108.0	108.0	108.8	108.8	125.0	8.1	2.2	3.5	.6	PLYMOUTH 1
445955	931349	100	41	50.9	34.1	22.8	32.7	28.4	25.5	30.4	38.9	31.3	30.7	SUPERIOR DAIRIES 1
445957	931858	100	41	5.5	5.1	4.8	3.9	.8	3.0	3.6	9.5	7.6	7.5	EWALD BROS. INC 1
445958	931614	70	41	101.7	81.2	82.5	69.1	54.5	53.3	12.7	.0	.0	.0	GRAIN BELT 6
445958	931614	70	41	154.0	349.4	281.4	213.7	.0	.0	.0	.0	.0	.0	GRAIN BELT 4
445958	931614	70	41	56.7	58.2	56.0	54.4	28.0	14.0	.0	.0	.0	.0	GRAIN BELT 3
445958	931614	100	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GRAIN BELT 1
445958	931614	70	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GRAIN BELT 2
445958	932139	100	47	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	MPLS HONEYWELL 2
445958	932139	100	47	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	MPLS HONEYWELL 1
445959	931707	100	41	40.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CLOVERLEAF CREAMERY 1
450005	931716	95	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	FRANKLIN COOP CREAMERY 2
450010	931326	100	47	232.5	282.1	223.0	223.0	164.0	128.9	251.9	125.0	118.2	121.2	MPLS HONEYWELL 1
450010	931326	100	47	143.2	118.8	112.0	112.0	104.0	120.2	100.0	100.0	100.0	100.0	MPLS HONEYWELL 2
450011	931641	65	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CHIC, MILK, ST P, & OM 1
450014	931218	100	47	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	PAPER CALMENSEN 1
450015	932800	100	11	.0	.0	.0	.0	.0	.0	147.2	196.7	34.8	159.9	PLYMOUTH 4
450017	931601	95	41	29.2	35.4	47.9	62.8	55.5	72.3	57.0	90.5	73.2	126.5	FLEISCHMANN MALTING 2

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
450017	931601	95	41	144.0	109.5	115.2	111.6	102.6	107.8	85.5	89.9	73.2	93.4	FLEICHMANN MALTING C 1
450025	931600	100	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR SANITARY ICE 2
450025	931600	95	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR SANITARY ICE 1
450025	932801	100	11	.0	.0	.0	57.0	477.5	345.7	450.0	450.0	450.0	539.7	CEDAR SANITARY ICE 3
														PLYMOUTH
450026	932811	100	11	.0	194.0	194.0	327.4	36.6	218.9	378.9	367.0	606.9	511.3	PLYMOUTH 2
450027	931617	95	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GLUCK BREWING 1
450027	931617	95	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GLUCK BREWING 2
450030	931634	95	25	33.4	31.4	28.9	31.1	29.4	28.2	26.6	27.9	24.7	20.7	N.S.P. 1
450032	932732	100	47	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	26.4	28.7	AACRON METALS 1
450039	931240	65	81	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	GROSS GOLF COURSE 1
450040	931638	100	48	80.0	46.4	27.6	29.7	34.2	35.0	46.4	32.4	35.0	35.0	RUBBEROID CO. 1
450045	931635	65	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	M.A. GEDNEY 1
450047	931939	100	11	98.0	134.5	101.2	106.9	139.7	138.9	172.2	135.0	155.3	120.0	ROBBINSDALE 5
450054	931917	100	11	85.9	128.6	95.9	112.9	143.9	120.0	130.0	135.0	130.0	130.0	ROBBINSDALE 3
450115	931502	70	40	36.8	39.2	39.2	39.2	39.4	39.2	28.0	28.0	28.0	28.0	SOOLINE RAILROAD CO. 2
450121	932409	100	11	40.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	PLYMOUTH 0
450127	932042	100	11	170.0	102.8	68.3	139.7	99.8	103.0	76.0	135.0	76.0	76.0	ROBBINSDALE 4
450137	931653	100	47	80.0	35.0	35.0	35.0	35.0	35.0	20.0	20.0	20.0	20.0	SUPERIOR PLATING 1
450143	931259	100	11	243.2	150.0	168.8	243.4	202.0	279.5	224.7	169.8	190.4	180.0	ST. ANTHONY 3
450143	931259	100	11	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ST. ANTHONY 2
450143	931259	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST. ANTHONY 1
450144	931256	100	11	362.2	220.0	185.6	142.4	211.4	229.6	230.0	230.4	211.3	210.0	ST. ANTHONY 4
450147	932020	80	11	101.5	103.1	117.2	88.5	67.7	66.6	60.0	60.0	60.0	48.8	ROBBINSDALE 1
450150	932015	100	11	126.7	139.6	116.2	100.6	87.6	110.0	90.0	135.0	90.0	90.0	ROBBINSDALE 2
450151	931610	95	40	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	BURLINGTON NORTHERN 2
450221	932318	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NEW HOPE 1
450235	931307	100	11	165.1	124.3	36.3	210.0	190.9	147.3	95.1	7.0	8.1	.0	ST. ANTHONY 5
450405	931934	100	11	298.0	200.0	200.0	200.0	200.0	102.5	75.5	92.3	250.7	9.0	BROOKLYN CENTER 2

Table 4.--Annual withdrawals from the Prairie du Chien-Jordan aquifer--Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY--Continued														
450406	931935	100	11	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	BROOKLYN CENTER 1
450433	932328	100	11	15.0	.0	136.3	139.2	128.8	122.8	51.0	56.3	71.3	125.0	BROOKLYN PARK 7
450445	931746	100	11	114.7	121.5	149.4	350.0	413.5	430.6	449.5	496.6	412.3	337.7	BROOKLYN CENTER 6
450450	931739	100	11	384.0	389.6	332.3	226.6	331.3	371.4	422.2	472.2	424.1	313.9	BROOKLYN CENTER 3
450453	931723	100	11	46.1	29.8	48.7	63.0	71.5	94.9	150.3	99.9	56.0	111.9	BROOKLYN CENTER 5
450453	931738	100	11	50.2	26.3	17.9	27.4	22.5	21.5	53.2	16.7	25.0	.3	BROOKLYN CENTER 4
450459	931724	100	11	.0	50.0	69.7	112.5	111.4	142.4	273.6	80.9	42.7	273.1	BROOKLYN CENTER 7
450510	931725	100	11	.0	.0	.0	.0	.0	.0	.0	.0	250.7	135.6	BROOKLYN CENTER 8
450523	932154	100	11	.0	104.0	104.0	120.1	117.3	74.9	82.6	66.1	27.0	55.6	BROOKLYN PARK 5
450552	932027	100	11	.0	.0	101.4	128.1	205.8	161.7	73.2	90.8	117.8	85.2	BROOKLYN PARK 3
450623	932539	100	44	43.2	35.1	40.5	38.3	36.5	35.5	31.2	32.1	45.9	40.0	FREIDHEIM CONST. 1
450914	932310	95	97	23.6	7.7	1.7	4.9	7.6	10.1	33.9	8.8	5.7	12.1	BROOKLYN FARMS 1
HENNEPIN COUNTY TOTALS				18325.5	18034.7	17412.2	18668.1	19306.5	19335.7	22092.2	19890.6	20281.1	19640.6	
RAMSEY COUNTY														
445345	930045	100	47	300.0	85.2	108.0	77.3	107.6	91.0	93.9	85.0	86.2	102.7	NORTH STAR STEEL 2
445347	930038	100	47	3.0	4.0	4.0	4.0	4.0	4.0	2.1	2.6	2.5	2.5	NORTH STAR STEEL 1
445347	931030	100	47	106.1	89.0	117.4	149.5	132.1	145.0	154.2	150.0	150.0	150.0	UNIVAC 2
445424	930926	100	41	45.5	44.8	45.6	61.3	69.1	69.7	70.1	41.7	58.2	64.6	PEARSON CANDY CO. 1
445429	930858	100	48	26.8	28.9	36.6	40.4	39.6	38.8	62.5	91.3	27.0	115.6	WEBB PUBLISHING 10
445429	930858	100	48	59.1	84.4	104.0	97.9	73.9	50.5	84.0	83.0	85.8	86.6	WEBB PUBLISHING 19
445503	931118	100	31	22.5	23.3	24.1	24.7	32.6	25.3	23.2	28.3	29.1	21.1	POWERS DRY GOODS 1
445532	931050	65	32	39.5	29.0	38.0	42.5	38.1	37.1	34.5	34.5	34.5	34.5	ST. CATHERINES 1
445534	930251	100	45	262.5	227.5	295.0	295.0	271.4	310.4	400.0	560.0	278.4	425.0	METRO WASTE TREATMEN 2
445534	930251	100	45	72.0	72.0	64.0	64.0	72.0	47.0	60.0	.0	12.5	40.0	METRO WASTE TREATMEN 3
445534	930251	100	45	262.5	227.5	270.0	270.0	415.0	241.0	300.0	184.0	380.7	600.2	METRO WASTE TREATMEN 1
445535	930655	100	25	11.2	5.7	4.9	7.1	6.5	.0	.0	.0	.0	.0	NORTHERN STATES POWE 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
445543	930720	100	41	325.2	285.2	514.9	450.8	514.6	441.0	318.0	318.0	318.0	318.0	SCHMIDT BREWING CO. 5
445544	930721	100	41	269.7	261.8	129.2	163.4	151.0	176.0	80.0	80.0	79.2	80.0	SCHMIDT BREWING CO. 4
445546	925911	100	11	12.7	11.4	11.4	10.7	10.1	11.0	17.5	8.6	9.0	9.0	CITY COUNTY WORKHOUS 1
445547	930721	100	41	.3	18.6	1.4	15.4	26.1	15.0	15.0	15.0	.0	10.0	SCHMIDT BREWING CO. 3
445552	930634	100	25	66.2	44.0	48.0	44.0	67.0	58.6	34.8	38.9	37.5	47.0	N.S.P. 2
445601	930624	100	25	.0	.0	.0	11.7	43.0	33.5	35.4	34.7	36.5	35.0	N.S.P. 1
445601	930624	100	25	30.0	30.0	22.0	.0	.0	.0	.0	.0	.0	.0	N.S.P. 1
445605	930447	100	41	156.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	PETERS SAUSAGE CO 1
445620	930639	100	41	17.0	21.0	17.0	13.8	15.9	17.0	14.0	14.0	14.0	14.0	CRESCENT CREAMERY 3
445624	930520	100	41	14.6	13.6	12.4	5.5	6.0	6.0	5.0	5.0	1.0	.0	COCA-COLA BOTTLING 1
445630	930544	100	25	.0	.0	.0	.0	.0	36.3	20.3	40.7	62.0	53.0	NORTHERN STATES POW 33
445630	930544	100	25	16.1	34.3	29.9	35.6	29.9	16.7	32.5	23.7	17.5	15.9	NORTHERN STATES POW 31
445633	930600	65	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST. PAUL MILK CO 1
445633	930600	65	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST. PAUL MILK CO. 2
445634	930630	100	32	157.4	154.5	155.8	177.5	159.2	185.7	239.4	214.7	223.7	203.7	ST. LUKES HOSPITAL 1
445636	930542	100	48	36.6	27.6	27.3	30.1	24.8	1.4	1.6	2.3	2.0	2.2	WEST PUBLISHING 1
445637	930547	65	31	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	JJ HILL REFERENCE LI 1
445638	930543	100	31	136.8	145.1	112.0	93.9	83.7	109.0	100.0	100.0	108.4	100.0	N.W. BELL TELEPHONE 1
445639	930537	100	31	5.0	7.0	7.0	7.0	7.0	7.0	14.0	14.0	14.0	14.0	ST. PAUL CITY HALL 1
445640	930559	100	31	21.6	12.8	20.0	29.1	18.3	12.1	12.0	12.0	12.8	24.7	ST PAUL CIVIC CENTER 1
445641	930537	100	32	79.0	52.0	52.0	52.0	52.0	52.0	40.0	40.0	40.0	40.0	LOWRY HOTEL 1
445641	930614	95	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CRESCENT CREAMERY 2
445641	930614	65	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CRESCENT CREAMERY 1
445642	930528	100	32	90.0	110.0	110.0	116.7	97.6	116.9	62.2	89.3	80.2	116.2	RADISSON, ST. PAUL 1
445642	930532	100	31	26.0	35.3	37.9	37.9	35.2	41.6	43.6	34.7	31.6	20.3	DEGREE OF HONOR 1
445642	930544	65	32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ST. PAUL HOTEL 1
445642	930544	100	32	17.0	14.0	14.0	14.0	14.0	12.0	12.0	12.0	12.0	12.0	ST. PAUL HOTEL ASSN. 2
445642	935027	100	32	9.8	7.9	11.1	11.2	8.1	7.8	7.5	7.4	15.3	12.6	Y.W.C.A. 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
445644	930537	100	25	35.0	17.0	20.0	15.0	9.6	9.0	5.0	5.0	5.0	5.0	N.S.P 1
445644	930628	100	31	1.0	1.0	1.0	1.0	1.0	2.2	2.7	2.8	2.7	1.5	ARCHIOCEASE OF ST P 1
445645	930530	100	48	18.4	24.3	26.5	29.3	31.8	40.6	31.1	24.0	14.0	14.0	NW PUBLICATIONS 1
445645	930532	100	32	14.6	16.1	11.1	12.7	12.9	13.0	16.0	16.0	16.0	16.0	ST PAUL ATHLETIC CLU 1
445645	930539	100	31	130.0	156.6	149.0	160.4	132.9	145.3	86.9	127.4	101.4	99.2	ECONOMICS LAB 1
445646	930522	100	31	9.2	14.0	14.2	12.7	15.0	1.9	10.0	10.0	10.0	10.0	RAMSEY HILL PROP. 1
445646	930522	70	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GUARDIAN BLDG. 1
445646	930535	100	31	11.6	10.1	10.4	9.0	5.8	6.0	6.0	6.0	6.0	6.0	MN. MUTUAL LIFE INS. 1
445648	930545	100	31	31.4	24.3	23.9	24.2	21.5	22.6	24.6	16.2	14.1	10.6	UNITED PROP. INC. 1
445650	930520	100	31	18.2	14.3	14.1	16.0	12.2	10.5	12.6	9.0	9.1	17.5	ENDICOTT BLDG 1
445650	930533	100	31	68.6	84.4	92.8	79.9	77.6	71.0	72.5	64.5	73.0	78.0	N.W NATIONAL BANK 1
445651	930508	100	31	13.0	3.0	7.5	.6	.2	.0	.0	.0	.0	.0	ST. PAUL UNION DEPOT 1
445651	930531	100	31	57.6	77.2	88.5	72.2	54.7	20.0	.4	34.0	24.6	.4	AMERICAN NATIONAL BA 1
445651	930541	95	31	105.1	96.2	93.8	104.9	73.6	66.7	80.2	74.4	57.1	42.0	DAYTON'S 1
445652	930523	100	40	58.6	58.5	50.0	46.7	46.7	50.0	20.0	20.0	20.0	20.0	BURLINGTON NORTHERN 1
445653	930540	100	31	23.4	22.0	16.3	26.1	24.4	22.0	20.0	20.0	.0	.0	W.T. GRANT CO. 1
445653	930601	100	32	161.0	162.0	152.0	160.0	158.0	158.0	168.4	171.5	169.5	171.7	ST. JOSEPHS HOSPITAL 1
445654	930523	100	31	41.0	34.6	30.8	22.6	29.3	31.4	31.8	30.9	23.2	15.1	FARM CREDIT BANKS 1
445654	930613	100	32	99.0	86.9	86.3	108.5	152.0	108.0	112.7	86.4	136.8	.0	MILLER HOSPITAL 1
445655	930538	65	31	8.0	7.7	7.5	7.0	7.4	7.2	6.5	6.5	6.5	6.5	LANE BRYANT 1
445657	930533	100	41	68.0	71.0	26.1	25.6	23.2	14.2	30.6	31.7	25.0	21.8	LAND O LAKES 2
445657	930533	100	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SANITARY FARM DAIRY 1
445657	930537	100	31	95.9	85.7	62.1	76.1	49.7	50.0	30.0	30.0	24.0	25.4	DONALDSONS 2
445657	930537	95	31	8.5	6.2	8.2	4.0	4.5	4.5	4.5	.0	.0	.0	DONALDSONS 1
445658	930529	65	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	EMPORIUM 1
445658	930529	100	31	80.0	77.3	93.2	137.3	89.1	95.0	60.0	60.0	60.0	60.0	EMPORIUM 2
445700	930510	100	48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAYETTE 1
445710	930548	100	41	15.5	16.6	18.0	13.0	13.9	14.2	14.5	14.4	12.1	12.0	AMERICAN BAKERIES 1

Table 4.--Annual withdrawals from the Prairie du Chien-Jordan aquifer--Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY--Continued													
445711	931156	100 81	18.6	16.2	15.4	23.9	33.0	22.0	22.0	22.0	22.0	22.0	TOWN AND COUNTRY CLU 1
445712	930012	100 47	29.6	23.0	13.9	22.1	25.3	25.9	.0	21.4	.0	.0	3-M RESEARCH 2
445712	930012	100 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3-M RESEARCH 3
445712	930020	100 47	15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3-M RESEARCH 1
445714	931016	100 32	28.5	22.7	10.2	21.7	8.9	16.0	5.0	5.0	5.0	5.0	MIDWAY HOSPITAL 1
445716	924640	95 44	119.7	156.8	115.4	181.5	170.1	156.7	151.9	176.6	164.3	164.3	CEMSTONE 1
445716	930953	100 31	52.0	21.8	22.8	21.9	18.7	21.2	24.6	22.3	22.0	2.2	MURPHY DRY GOODS 1
445717	930919	100 31	25.0	14.3	6.7	15.0	25.0	15.0	9.0	9.0	9.0	9.0	BROWN AND BIGELOW 1
445719	930909	65 41	12.5	5.9	.0	.0	.0	.0	.0	.0	.0	.0	PEPSI COLA BOTTLING 1
445725	930536	100 32	156.5	148.5	145.8	139.9	114.5	137.0	154.2	67.5	162.7	105.3	ST. PAUL RAMSEY HOSP 1
445725	930536	100 32	66.1	9.4	17.6	28.7	13.4	33.2	26.8	68.1	12.6	47.0	ST. PAUL RAMSEY HOSP. 2
445726	931114	65 41	42.3	42.3	42.3	42.3	42.3	42.3	29.3	29.3	29.3	.0	MORRELL J. 1
445726	931114	100 41	65.0	65.0	65.0	65.0	65.0	65.0	45.0	45.0	45.0	.0	MORRELL J. 2
445727	931049	100 31	64.8	68.4	69.7	76.3	38.1	25.6	27.9	22.2	24.0	3.2	MUTUAL SERVICE INSUR 1
445730	930608	100 32	55.5	32.6	46.8	38.7	7.2	5.3	5.9	4.9	4.0	6.0	BETHESDA LUTHERAN 1
445732	931116	100 41	85.0	79.6	94.3	52.4	82.8	77.0	109.8	48.9	41.4	8.5	BARTUSCH PACKING 2
445732	931116	65 41	3.3	2.2	1.6	11.7	1.0	1.3	.0	.0	.0	.0	BARTUSCH PACKING 1
445733	931131	100 42	80.0	30.0	30.0	30.0	.0	.0	.0	.0	.0	.0	HOERNER WALDORF 2
445733	931131	100 42	968.0	990.5	988.7	961.3	939.7	942.6	1003.3	953.4	1056.7	921.9	HOERNER WALDORF 6
445733	931131	95 42	869.4	846.2	846.2	826.2	786.2	786.2	716.3	626.3	688.7	691.2	HOERNER WALDORF 1
445734	931054	100 41	100.0	21.0	40.0	36.9	45.1	.2	.2	.3	.3	10.0	CEDAR SANITARY 1
445735	931130	95 42	646.7	332.4	344.4	324.4	314.4	284.4	164.8	121.1	140.4	147.3	HOERNER WALDORF 5
445737	931146	70 42	286.1	243.6	243.6	223.6	193.6	173.6	159.8	9.8	10.0	2.0	HOERNER WALDORF 4
445742	931045	95 47	233.9	229.0	229.1	237.0	233.7	229.0	185.4	123.5	123.5	123.5	UNIVAC 1
445745	930412	95 41	475.0	475.0	475.0	570.0	570.0	570.0	617.5	570.0	570.0	570.0	OLYMPIA BREWING 5
445748	930402	100 41	344.0	350.0	350.0	400.0	400.0	350.0	400.0	375.0	375.0	350.0	OLYMPIA BREWERY 9
445748	930402	100 41	344.0	350.0	350.0	400.0	400.0	350.0	400.0	375.0	375.0	350.0	OLYMPIA BREWERY 10
445748	930411	100 41	550.0	335.0	360.9	393.5	390.8	386.0	355.5	278.8	262.4	250.0	OLYMPIA BREWING 7

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued													
445749	930413	100 41	0.0	250.0	250.0	275.0	300.0	250.0	250.0	250.0	250.0	220.0	OLYMPIA BREWERY 11
445749	930415	100 41	550.0	500.0	500.0	550.0	600.0	550.0	550.0	550.0	510.0	500.0	OLYMPIA BREWING 8
445750	930415	95 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	OLYMPIA BREWING 3
445751	930343	100 47	228.4	232.0	239.2	357.8	193.8	138.5	235.0	143.7	235.0	235.0	3-M BUSH PLANT 4
445754	930343	100 47	239.4	163.0	150.1	199.1	160.7	163.0	150.0	150.0	150.0	150.0	3-M BUSH PLANT 2
445755	930343	100 47	100.6	143.0	134.6	147.4	141.3	143.0	140.0	140.0	140.0	140.0	3-M BUSH PLANT 1
445756	930351	100 47	224.7	328.0	307.1	305.3	386.0	315.3	315.0	315.0	315.0	315.0	3-M BUSH PLANT 3
445757	930417	100 41	300.0	250.0	250.0	250.0	250.0	250.0	225.0	225.0	195.0	185.0	OLYMPIA BREWING 6
445757	930515	65 40	3.9	2.6	2.6	2.6	2.6	2.6	.0	.0	.0	.0	BURLINGTON NORTHERN 1
445758	930355	65 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHIRLPOOL CORP. 1
445759	930354	100 47	126.6	147.7	167.6	282.9	131.0	182.0	143.0	146.6	140.1	137.0	WHIRLPOOL CORP. 2
445759	930401	100 47	184.0	220.3	284.3	218.1	223.9	226.4	257.1	215.0	174.4	164.6	WHIRLPOOL CORP. 3
445803	930343	100 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NORTHERN MALLEABLE I 1
445803	930343	100 47	86.5	71.4	51.9	71.6	68.9	31.8	21.6	32.4	20.6	23.1	NORTHERN MALLEABLE I 2
445806	931056	100 47	25.0	95.0	95.0	115.7	120.8	49.8	59.0	69.0	62.3	53.1	PLATE-O-MATIC 1
445811	930905	65 46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	KOPPERS COMPANY 3
445812	930910	100 46	253.9	275.9	256.7	228.0	185.9	193.4	183.0	177.6	198.2	90.0	KOPPERS COMPANY 1
445814	930719	100 40	36.8	47.3	47.0	.0	.0	.0	.0	.0	.0	.0	WOOD CO, JOHN 1
445935	930205	100 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAMSEY CO LAKE WAKE 17
445944	931119	100 81	23.0	24.0	24.0	24.0	24.0	.0	15.8	12.8	24.0	24.0	UNIV OF MINN GOLF CO 1
445947	930334	100 61	567.4	.0	.0	.0	.0	4.9	37.2	188.6	47.7	20.0	RAMSEY CO LAKE PHAL 20
445954	930109	65 81	13.8	21.6	18.9	18.9	10.5	24.3	25.7	33.2	22.5	26.3	RAMSEY COUNTY GOLF C 2
445957	930127	65 32	7.2	6.7	8.6	8.8	6.2	7.8	7.8	7.8	7.8	7.8	RAMSEY CO. NURSING 1
450001	930348	100 61	512.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAMSEY CO LAKE KELL 10
450015	925951	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NORTH ST. PAUL 5
450016	930618	100 41	2.5	2.4	2.7	3.1	3.8	5.8	12.1	10.8	10.5	12.0	SCHROEDER MILK CO 1
450021	930329	100 61	267.8	273.6	.0	.0	30.0	81.0	199.6	428.3	46.2	72.1	RAMSEY CO LAKE KELL 21
450039	925945	100 11	201.6	222.5	247.6	229.9	240.3	221.8	250.8	254.3	252.8	252.3	NORTH ST. PAUL 3

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
450045	931222	100	31	128.1	118.4	109.4	68.0	53.6	33.0	35.5	36.5	43.5	31.9	SPACE CENTER INC. 1
450054	931201	100	41	51.3	69.0	54.7	52.0	51.0	34.3	36.5	46.5	64.3	48.1	OLD DUTCH FOODS 1
450104	925958	100	11	50.6	46.6	44.7	46.8	47.1	58.1	52.0	54.2	47.0	16.7	NORTH ST. PAUL 2
450107	925955	100	11	59.7	45.8	55.5	53.5	59.0	56.8	72.9	61.5	52.9	18.6	NORTH ST. PAUL 1
450107	925955	65	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NORTH ST. PAUL 0
450126	925923	65	61	13.8	.0	.0	.0	.0	.0	.0	12.0	.0	.0	RAMSEY CO LAKE SILV 13
450126	930603	100	61	.0	23.3	30.2	16.8	16.4	.0	.0	.0	.0	.0	RAMSEY CO LAKE ROUN 12
450128	930025	100	11	97.9	70.9	49.9	78.5	64.4	105.3	111.2	74.6	73.1	55.4	NORTH ST. PAUL 4
450209	930741	65	61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAMSEY CO LAKE OWAS 14
450220	930924	65	61	18.5	.0	.0	.0	.0	.0	1.2	.0	.0	.0	RAMSEY CO. LAKE JOSE 5
450224	931314	100	47	12.6	9.9	12.4	9.5	11.9	2.7	4.1	4.4	5.2	3.9	MENGELKOCH CO. 1
450224	931314	100	47	15.9	16.8	16.3	13.1	19.5	2.4	3.8	4.7	6.0	4.0	MENGELKOCH CO. 2
450230	930000	100	11	341.2	210.0	149.0	325.6	210.0	229.7	358.3	315.5	231.5	274.0	WHITE BEAR LAKE 6
450235	930650	95	61	110.9	90.3	.0	.0	.0	.0	131.3	209.3	.0	.0	RAMSEY CO LAKE OWAS 14
450236	930020	100	11	90.0	266.0	266.0	308.9	221.6	266.0	244.0	284.8	202.5	244.0	WHITE BEAR LAKE 7
450238	930004	100	11	287.7	168.0	168.0	168.0	168.0	145.9	69.0	37.2	99.9	69.0	WHITE BEAR LAKE 4
450238	930825	100	11	4.4	16.6	9.2	1.2	.2	.0	.0	.0	.0	.0	SHOREVIEW 1
450248	930255	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	VADNAIS HTS 1
450251	931021	100	61	99.4	.0	.0	.0	.0	.0	129.6	.0	.0	.0	RAMSEY CO LAKE JOHA 19
450255	930311	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	VADNAIS HTS 2
450301	931330	100	11	68.6	23.0	63.2	3.8	9.4	13.4	80.0	88.4	80.0	5.4	NEW BRIGHTON 7
450313	930805	100	61	.0	.0	.0	.0	.0	.0	.0	19.4	.0	.0	RAMSEY CO LAKE ISLA 18
450323	931331	100	11	32.1	16.0	29.1	1.0	4.1	30.8	24.8	8.6	22.9	1.0	NEW BRIGHTON 6
450324	931325	100	11	163.2	90.0	174.9	52.3	53.8	80.6	45.0	45.3	45.0	45.0	NEW BRIGHTON 5
450336	930022	100	11	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHITE BEAR LAKE 3
450337	931309	100	11	.0	84.0	90.4	43.9	97.7	104.2	331.5	283.4	231.3	125.4	NEW BRIGHTON 8
450337	931311	100	11	.0	.0	150.0	350.0	350.0	445.6	392.9	355.6	309.8	195.8	NEW BRIGHTON 9
450341	931307	100	11	141.5	38.0	77.1	5.3	41.5	29.0	79.0	76.8	80.6	79.0	NEW BRIGHTON 4

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
450342	931125	100	11	4.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	NEW BRIGHTON 1
450342	931130	100	11	10.0	5.0	5.0	5.0	5.0	5.0	.0	.0	.0	.0	NEW BRIGHTON 2
450345	931306	100	11	174.7	40.0	88.8	5.2	50.9	4.4	15.0	10.3	21.6	15.0	NEW BRIGHTON 3
450351	930518	100	11	.0	.0	.0	30.0	30.0	30.0	40.0	40.0	40.0	40.0	VADNAIS HTS 3
450403	930853	100	31	44.4	43.3	29.1	28.3	21.4	31.0	20.0	20.0	20.0	14.7	CONTROL DATA CORP 2
450403	930853	100	31	27.5	27.2	29.1	28.3	21.4	23.1	18.9	11.3	14.3	14.7	CONTROL DATA CORP 1
450429	930636	100	10	9.0	7.6	8.7	7.5	7.4	7.1	10.0	3.1	8.0	8.0	CENTRAL WATER CO 1
450434	930600	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	VADNAIS HTS 4
450443	930738	100	61	230.4	171.4	110.9	164.2	159.8	.0	178.6	171.4	79.2	46.3	RAMSEY CO. LAKE SNAIL 6
450449	930815	100	11	.0	.0	32.4	114.6	90.1	84.3	133.7	109.6	103.2	116.0	SHOREVIEW 3
450449	930815	100	11	78.8	90.3	83.7	68.5	86.5	59.2	108.4	133.8	188.3	143.0	SHOREVIEW 2
450451	930212	100	61	68.0	.0	.0	.0	.0	.0	31.1	21.9	.0	.0	RAMSEY CO. LAKE BIRC 8
450500	930033	65	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHITE BEAR LAKE 00
450508	931015	100	47	213.6	183.6	92.2	162.0	68.3	83.6	60.4	51.6	41.0	51.0	TWIN CITY ARSENAL 8
450514	925956	100	61	211.7	.0	.0	.0	1.0	.0	.0	.0	.0	.0	RAMSEY CO. LAKE WHIT 2
450514	925956	100	61	211.7	.0	.0	.0	1.0	.0	.0	.0	.0	.0	RAMSEY CO. LAKE WHIT 1
450514	931026	100	47	269.2	206.9	152.3	142.7	114.9	80.6	90.7	49.9	46.9	63.0	TWIN CITY ARSENAL 7
450520	931035	100	47	258.9	200.4	151.1	150.0	118.9	128.5	65.1	59.5	62.0	62.0	TWIN CITY ARSENAL 6
450521	931045	100	47	241.6	143.0	124.1	153.5	111.7	182.2	77.3	37.6	42.4	52.0	TWIN CITY ARSENAL 3
450528	931045	100	47	263.7	204.7	135.4	152.0	71.1	197.2	27.8	46.9	59.9	45.0	TWIN CITY ARSENAL 2
450532	930003	100	11	5.0	5.0	5.0	5.0	5.0	5.0	.0	.0	.0	.0	WHITE BEAR LAKE 2
450532	930003	100	11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	.0	.0	WHITE BEAR LAKE 1
450533	930750	100	61	199.6	139.4	.0	107.0	253.4	.0	231.3	201.6	47.5	74.9	RAMSEY CO LAKE TURT 16
450535	931037	100	47	274.7	163.8	133.2	124.0	67.5	133.3	95.1	48.8	68.0	71.0	TWIN CITY ARSENAL 1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
450539	925947	70	61	180.3	0.0	0.0	0.0	0.8	0.0	0.0	201.6	0.0	0.0	RAMSEY CO. LAKE WHIT 3
450546	931226	100	11	.0	92.0	71.3	105.7	98.9	92.0	111.0	111.0	113.0	107.4	MOUNDSVIEW 5
450550	925905	95	61	830.1	.0	.0	.0	175.1	.0	.0	273.6	.0	.0	RAMSEY CO. LAKE WHIT 9
450604	930041	95	61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAMSEY CO LAKE BALD 15
450619	931312	100	11	.0	75.0	79.2	72.7	73.2	75.0	84.0	81.3	87.9	93.5	MOUNDSVIEW 6
450620	931217	100	11	.0	93.0	69.1	82.5	128.5	93.0	93.0	89.0	101.0	78.1	MOUNDSVIEW 3
450626	931334	100	61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAMSEY CO LAKE SPRI 11
RAMSEY COUNTY TOTALS				19181.1	14869.0	14474.1	15369.9	14923.9	13902.9	14633.2	14355.1	12755.8	12132.6	
SCOTT COUNTY														
443418	932106	100	11	7.0	8.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0	9.0	NEW MARKET 1
444249	932432	100	11	.0	.0	.0	.0	.0	.0	72.2	73.6	83.7	95.6	PRIOR LAKE 4
444258	932447	100	11	.0	.0	.0	.0	59.2	70.0	83.0	83.0	83.0	80.2	PRIOR LAKE 3
444351	931948	100	11	3.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	ELKO 1
444636	932047	100	48	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	CONTINENTAL MACHINES 1
444638	932048	100	61	38.9	23.0	25.9	15.8	14.4	20.0	102.2	93.0	84.7	7.9	METRO PARKS SYSTEM 1
444641	932036	100	11	96.6	98.3	87.2	94.8	97.3	85.0	107.0	100.0	73.0	95.3	SAVAGE 1
444647	933352	95	11	12.2	12.1	8.3	12.2	2.5	14.4	16.0	16.4	16.2	16.2	BONNEVISTA TRAILER P 1
444714	931949	100	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CARGILL 1
444714	931949	100	41	403.2	403.2	403.2	403.2	403.2	403.0	397.4	367.2	396.9	319.9	CARGILL 2
444725	933126	70	11	63.6	42.6	65.9	64.6	51.5	56.0	56.0	56.0	56.0	56.0	SHAKOPEE 2
444726	933108	70	11	81.6	88.8	84.0	91.6	67.1	82.6	70.0	70.0	70.0	70.0	SHAKOPEE 3
444730	932550	100	63	2180.6	1966.0	1727.9	2126.5	1951.3	2299.5	2361.7	2384.3	2810.0	1972.7	SHEILY ROCK 1
444731	932850	100	97	.0	.0	3.5	8.4	28.6	9.7	20.5	.0	.0	.0	FLOOD, M. J. 1
444733	932701	100	11	.0	.0	40.0	40.0	40.0	40.0	90.0	90.0	.0	.0	SHAKOPEE 5
444740	932701	100	11	.0	.0	40.0	40.0	40.0	40.0	90.0	90.0	90.0	90.0	SHAKOPEE 4

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
SCOTT COUNTY—Continued													
444747	933221	30 41	61.3	49.2	32.9	35.2	34.5	39.6	57.9	44.1	23.2	72.6	RAHR MALTING 4
444748	933211	30 41	22.6	31.5	32.9	35.2	34.5	21.0	40.5	40.5	40.5	42.3	RAHR MALTING 2
444748	933211	30 41	22.6	31.5	32.9	35.2	34.5	39.6	39.6	44.1	23.2	42.3	RAHR MALTING 1
444749	933207	30 41	61.1	28.7	32.9	35.2	34.5	39.6	51.8	44.1	23.2	9.3	RAHR MALTING 3
444752	932807	100 48	57.1	58.0	57.4	70.0	66.3	64.0	82.0	82.0	82.0	4.2	MIDLAND GLASS CO 2
444752	932807	100 48	57.1	58.0	57.4	70.0	66.3	66.2	68.3	79.9	97.3	68.5	MIDLAND GLASS CO 1
444810	933129	70 11	28.0	37.5	19.3	30.8	22.2	27.3	14.0	14.0	14.0	14.0	SHAKOPEE 1
SCOTT COUNTY TOTALS			3211.5	2955.4	2778.6	3235.7	3074.9	3444.5	3849.1	3801.2	4095.9	3086.0	
WASHINGTON COUNTY													
444652	925128	100 97	.0	.0	.0	.0	.0	.0	.0	5.2	3.3	4.0	SCHNEIDER, H.J. 1
444706	925024	100 97	.0	.0	.0	.0	.0	.0	.0	6.9	3.3	5.0	MCCALLUM, K.J. 1
444715	930000	100 63	.0	.0	997.9	2511.6	3628.2	1784.0	14.0	.0	42.0	1120.0	SHIELY CO 1
444722	925442	100 47	305.6	289.6	279.3	302.4	251.2	144.9	305.6	275.0	284.7	275.0	3M 1
444731	925442	100 47	284.2	297.1	306.7	335.7	352.7	315.1	305.6	340.1	374.6	340.1	3M 2
444731	925459	100 47	291.9	295.3	350.3	376.2	354.9	251.6	305.6	391.3	307.5	310.0	3M 4
444740	925447	100 47	367.1	365.6	414.3	396.6	414.4	278.7	305.6	236.3	297.3	350.0	3M 3
444741	925209	100 97	2.3	2.3	9.9	11.0	10.1	12.6	36.0	25.2	25.2	8.0	SMALLIDGE 1
444751	925631	100 97	.0	.0	.0	.0	.0	29.4	51.2	42.0	33.6	7.6	SMALLIDGE 1
444802	925657	100 97	.0	.0	.0	.0	.0	.0	.0	2.3	.3	.2	ZYWIEC 1
444815	930030	100 63	151.2	151.2	131.7	153.1	150.9	152.1	155.7	156.5	151.0	143.3	SHIELY CO 1
444831	925011	100 97	.0	.0	.0	.0	.0	.0	.0	10.4	2.9	7.0	RENTZ, C.T. 1
444856	925809	100 97	.0	.0	.0	.0	.0	.0	.0	14.9	12.0	5.7	SWANLUNDS 1
444919	925815	100 11	107.2	112.2	107.1	98.2	80.4	69.0	57.7	81.9	73.6	17.6	COTTAGE GROVE 2
444941	925552	100 11	.0	.0	.0	.0	.0	75.0	71.0	32.5	19.5	4.2	COTTAGE GROVE 7
444943	925600	100 11	.0	.0	.0	.0	.0	.0	.0	.0	47.7	100.1	COTTAGE GROVE 8

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.

LAT	LONG	PC USE	WASHINGTON COUNTY—Continued										1979	Well Owner and No.
			1970	1971	1972	1973	1974	1975	1976	1977	1978	1979		
444946	925621	100 11	116.8	97.8	117.0	48.2	59.9	69.5	83.5	53.9	23.6	17.3	COITAGE GROVE	3
444947	925545	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	COITAGE GROVE	9
444947	925613	100 11	47.2	38.2	8.1	116.4	118.5	83.9	107.4	137.4	93.3	85.0	COITAGE GROVE	4
444947	925613	100 11	135.4	106.8	49.1	166.4	99.2	105.5	155.5	62.0	179.5	131.6	COITAGE GROVE	5
444950	925807	100 11	70.2	68.7	63.1	60.8	70.1	69.1	98.6	94.6	85.7	115.4	COITAGE GROVE	1
444953	925600	100 11	.0	.0	.0	.0	93.5	97.3	98.2	151.0	86.4	57.1	COITAGE GROVE	6
444955	925406	100 97	.0	.0	.0	.0	.0	.0	.0	23.9	23.0	23.0	TANK, D.F.	1
445017	925919	100 11	50.5	52.2	52.9	38.9	38.1	42.7	40.0	40.0	37.8	38.8	ST PAUL PARK	2
445039	925505	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GOEBEL, AL	1
445047	925008	100 97	.0	.0	.0	.0	.0	.0	.0	30.2	28.8	29.0	BISCOE, S.	1
445048	925406	100 97	.0	.0	.0	.0	.0	.0	.0	9.7	5.4	7.0	GOEBEL, AL	1
445054	925945	100 11	55.5	60.9	44.2	75.0	71.7	78.1	60.0	60.0	55.5	37.3	ST PAUL PARK	1
445102	925352	100 97	.0	.0	.0	.0	.0	.0	.0	9.7	5.9	8.0	GOEBEL, T	1
445110	930019	100 46	214.7	201.0	276.7	318.6	201.0	201.0	200.0	200.0	200.0	200.0	ASHLAND OIL CO	4
445110	930019	100 46	214.7	201.0	276.7	318.6	201.0	201.0	200.0	200.0	200.0	200.0	ASHLAND OIL CO	5
445110	930019	100 46	.0	.0	225.0	225.0	225.0	225.0	200.0	200.0	200.0	200.0	ASHLAND OIL	10
445110	930019	100 46	214.7	201.0	276.7	318.6	201.0	201.0	200.0	200.0	200.0	200.0	ASHLAND OIL CO	3
445150	925343	100 47	280.0	280.0	331.0	265.9	242.2	280.0	350.0	350.0	350.0	428.8	3-M WOODBURY	1
445150	925343	100 47	.0	.0	.0	.0	306.7	426.0	650.0	574.9	704.1	667.2	3-M WOODBURY	4
445150	925343	100 47	38.0	38.0	54.9	47.6	10.2	38.0	10.0	10.0	10.0	10.0	3-M WOODBURY	3
445150	925343	100 47	242.0	242.0	356.0	293.8	75.7	379.3	385.7	376.8	385.2	328.0	3-M WOODBURY	3
445150	925343	100 47	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	10.0	10.0	3-M WOODBURY	2
445150	925343	100 47	.0	34.0	39.8	27.2	34.5	34.0	10.0	10.0	10.0	10.0	3-M WOODBURY	4
445150	925343	100 47	20.0	20.0	25.8	16.2	17.4	20.0	10.0	10.0	10.0	10.0	3-M WOODBURY	1
445150	925343	100 47	110.0	110.0	144.7	113.8	101.0	148.0	142.9	129.2	124.1	82.2	3-M WOODBURY	2
445201	930003	100 11	.0	.0	.0	.4	44.1	64.3	97.0	74.6	99.5	27.4	NEWPORT	2
445219	925249	100 97	.0	.0	.0	.0	.0	.0	.0	5.8	9.1	8.0	NIEMAN, E.	1
445227	925951	100 11	92.4	84.3	71.0	98.4	53.5	45.9	41.4	56.6	38.6	90.2	NEWPORT	1

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC	USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY—Continued														
445308	925707	100	97	0.0	0.0	0.0	0.0	0.0	0.0	13.2	10.0	2.4	1.2	ZWIEC 1
445329	925316	100	97	4.4	3.9	2.9	5.6	8.0	6.1	10.7	7.7	5.9	6.8	BAILEY NURSERIES 1
445506	925623	100	11	168.5	84.9	79.1	103.7	122.0	94.7	73.8	97.2	113.7	97.6	WOODBURY 2
445513	925628	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WOODBURY 5
445513	925634	100	11	.8	75.9	113.5	120.4	122.3	77.1	100.4	81.4	117.2	109.3	WOODBURY 3
445520	925635	100	11	.0	.0	.0	.0	82.0	82.3	141.1	88.8	68.9	118.0	WOODBURY 4
445630	925859	100	11	7.5	.2	.4	.5	.8	1.0	.1	1.9	.1	.1	WOODBURY 1
445703	924816	95	44	76.0	71.3	67.8	73.7	66.8	71.3	71.3	71.3	71.3	71.3	CEMSTONE 1
445707	925824	100	11	16.0	20.0	19.0	22.4	20.6	19.0	19.5	20.0	20.0	20.0	LANDFALL TERRACE 2
445725	925418	100	11	31.6	54.8	51.7	58.5	58.5	47.6	77.4	62.6	57.6	46.0	CIMARRON 1
445733	925828	100	11	60.6	61.6	71.5	79.7	74.3	88.6	69.0	72.9	72.7	47.7	OAKDALE 2
445740	925756	100	11	53.4	41.2	56.9	58.2	90.8	77.5	88.8	79.4	84.3	66.0	OAKDALE 1
445816	925225	100	47	22.8	25.0	29.7	22.4	24.0	25.0	25.0	44.4	25.0	25.0	3M 3
445816	925225	100	47	30.7	20.0	7.2	20.2	22.0	30.0	28.0	63.4	20.0	20.0	3M 4
445821	925750	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	OAKDALE 5
445904	925900	100	11	54.1	38.9	52.5	35.0	43.9	36.8	56.7	48.7	60.7	68.2	ST PAUL PARK 3
445937	925848	100	11	.0	.0	.0	.0	.0	.0	84.4	70.5	82.3	122.5	OAKDALE 4
450015	925810	100	11	17.1	55.6	61.5	83.9	75.8	93.3	81.3	78.2	77.7	86.6	OAKDALE 3
450201	924911	100	11	32.0	39.6	34.2	52.1	62.6	86.1	45.4	29.6	39.1	45.0	OAK PARK HTS 1
450204	924903	100	11	.0	.0	.0	.0	.0	.0	41.7	55.3	47.9	.0	OAK PARK HTS 2
450222	924943	100	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	STILLWATER 9
450237	924828	100	11	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	STILLWATER 6
450247	925024	100	11	.0	.0	.0	.0	.0	30.0	50.0	50.0	50.0	50.0	STILLWATER 8
450312	924928	100	11	180.0	180.0	180.0	180.0	180.0	180.0	175.0	175.0	175.0	175.0	STILLWATER 5
450323	924840	100	11	200.0	180.0	180.0	180.0	180.0	180.0	175.0	175.0	175.0	175.0	STILLWATER 1
450352	924912	100	11	40.0	40.0	40.0	40.0	40.0	40.0	.0	.0	.0	.0	STILLWATER 4
450358	925711	100	11	69.0	69.1	80.0	72.1	86.3	92.7	72.4	45.6	52.3	55.3	MAHTOMEDI 4
450358	925711	100	11	35.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MAHTOMEDI 2

Table 4.—Annual withdrawals from the Prairie du Chien-Jordan aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

LAT	LONG	PC USE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY—Continued													
450358	925711	100 11	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MAHTOMEDI 1
450417	925704	100 11	40.6	35.4	40.0	48.5	39.6	33.2	52.0	51.6	53.0	54.7	MAHTOMEDI 3
450550	925525	100 40	53.4	60.5	34.2	12.5	14.0	.0	.0	.0	.0	.0	ASHBACH AGGREGATES 1
450553	925525	100 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	J.W. CRAIG CO 1
450804	925102	100 97	.0	.0	.0	.0	.0	.0	52.3	31.5	.0	.0	CARLSON 1
450944	925942	100 11	15.9	14.6	16.4	17.7	22.8	19.7	28.4	25.5	28.5	29.0	HUGO 1
451401	925338	100 97	15.0	7.9	2.3	3.3	6.2	6.3	17.0	8.8	1.4	2.5	WHITE ROCK LAKE FARM 1
451441	925746	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAMBURG 1
451544	925744	100 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SAIVERDA, W.E. 1
WASHINGTON CO TOTALS			4735.0	4613.6	6314.7	8109.0	9034.4	7424.3	6508.1	6347.1	6456.0	7361.9	
TWIN CITIES TOTALS			54833.1	50368.4	50577.3	55433.7	56968.7	54307.0	61168.8	58678.7	57148.8	54198.7	

Table 5.—Annual withdrawals from the Mount Simon-Hinckley aquifer

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
ANOKA COUNTY														
450403	931509	85	11	106.3	173.5	116.1	61.0	91.8	16.0	64.3	26.7	62.9	65.8	FRIDLEY 1
450445	931514	100	11	178.2	80.8	106.3	111.3	51.3	105.0	209.5	140.5	40.8	110.7	FRIDLEY 2
450454	931514	100	11	87.1	111.7	122.0	73.6	85.7	96.0	111.0	175.4	119.1	76.0	FRIDLEY 4
450456	931514	100	11	27.7	29.3	22.9	.3	9.3	15.0	7.5	.5	.0	.0	FRIDLEY 3
450457	931502	100	11	54.4	45.1	84.7	99.6	58.9	164.0	110.0	97.3	123.1	182.5	FRIDLEY 5
450639	931530	85	11	123.8	61.2	50.2	88.1	17.0	86.6	37.9	19.6	15.0	63.6	SPRING LAKE PARK 1
450639	931530	100	11	76.0	4.3	18.6	9.4	91.3	50.0	70.4	21.6	20.0	20.0	SPRING LAKE PARK 2
450646	931544	100	11	.0	150.0	133.1	138.3	141.5	185.0	257.8	237.1	214.9	193.7	SPRING LAKE PARK 3
450810	931413	100	11	140.4	80.0	88.8	79.0	73.5	75.5	102.8	87.8	88.2	101.4	BLAINE CITY OF 3
450856	931627	85	11	40.0	34.5	9.5	21.4	23.1	22.7	117.2	71.3	43.2	77.4	COON RAPIDS 5
450911	931828	85	11	.0	.0	.0	.0	.0	.0	23.0	30.4	23.0	23.0	COON RAPIDS 12
450912	931903	85	11	.0	.0	2.3	14.4	2.6	169.4	238.6	311.6	343.5	306.0	COON RAPIDS 11
450928	930904	85	11	10.1	19.6	20.0	24.6	21.2	10.3	17.1	17.4	15.8	13.6	BLAINE CITY OF 6
450934	930908	85	11	.0	.0	.0	.0	1.0	12.1	16.3	15.5	14.4	15.3	BLAINE CITY OF 1
450938	931538	85	11	38.4	17.0	14.5	14.8	3.8	7.9	22.5	8.5	16.2	2.8	BLAINE CITY OF 11
450942	931926	85	11	.0	.0	.0	.0	.0	.0	.0	2.0	112.1	85.0	COON RAPIDS 15
450950	931936	85	11	.0	.0	.0	.0	.0	.0	.0	5.1	15.0	15.3	COON RAPIDS 14
450950	932028	85	11	198.0	206.7	192.3	110.9	180.0	171.5	186.3	155.8	77.9	99.3	COON RAPIDS 7
450951	931520	85	11	74.5	18.7	33.1	28.5	4.1	7.1	16.8	6.4	20.0	4.8	BLAINE CITY OF 2
451006	931707	85	11	33.2	9.7	7.0	5.1	2.5	4.8	13.5	8.5	2.4	1.0	COON RAPIDS CITY OF 2
451029	931623	85	11	.0	108.8	155.4	81.0	127.4	71.2	145.4	28.4	94.0	63.8	COON RAPIDS 10
451031	931626	85	11	235.0	94.0	82.1	133.1	64.4	176.5	292.0	51.2	127.5	80.7	COON RAPIDS CITY OF 8
451059	932014	85	11	35.0	157.1	60.5	198.8	173.5	59.6	45.8	37.7	38.7	40.8	COON RAPIDS 4
451106	931521	85	11	39.2	50.2	72.0	42.0	34.4	33.4	86.7	35.8	37.0	50.8	BLAINE CITY OF 5
451141	931234	85	97	.0	.0	.0	.0	.0	.0	.0	.0	5.0	10.2	HENIGES 1
451208	931340	85	97	.0	.0	.0	.0	.0	.0	.0	4.9	4.9	4.9	GILLJUND 1
451216	932429	100	11	50.0	50.0	50.0	50.0	50.0	50.0	46.8	13.2	19.9	14.0	ANOKA 4
451217	932432	85	11	.0	.0	.0	.0	.0	.0	.0	268.4	271.8	271.8	ANOKA 3

Table 5.—Annual withdrawals from the Mount Simon-Hinckley aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
ANOKA COUNTY—Continued														
451320	931507	85	81	0.0	27.2	27.2	27.2	27.2	27.2	43.4	43.4	43.4	43.4	MAJESTIC OAKS GOLF C 1
451512	931205	85	97	.0	.0	.0	.0	.0	.0	.0	6.8	6.8	.6	HOGDAL 1
451545	932746	85	97	18.7	.0	.0	.0	.0	.0	.0	.0	.0	8.9	SORTEBERG 1
451710	932931	100	97	19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ENGVAL 1
451809	933019	100	97	.0	.0	.0	.0	.0	.0	5.0	5.0	5.0	5.0	SONNEBERG 1
452024	933010	85	97	.0	.0	.0	.0	.0	.0	.0	10.0	15.0	16.1	MORITZ 1
452332	932156	100	11	.0	.0	.0	.0	.0	30.0	35.0	35.0	35.0	35.0	ST FRANCIS 1
ANOKA COUNTY TOTALS				1585.0	1529.4	1468.6	1412.4	1335.5	1646.8	2322.6	1978.8	2071.5	2103.2	
CARVER COUNTY														
444356	935802	85	11	9.3	8.5	7.9	8.8	8.7	9.0	12.3	9.9	10.7	10.6	HAMBURG 1
444357	935750	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	HAMBURG DAIRY ASSOC 1
444545	935058	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BONGARDS CREAMERIES 1
444545	935058	100	41	486.8	495.6	491.6	491.4	467.4	158.9	163.1	155.0	152.0	135.8	BONGARDS CREAMERIES 4
444607	934650	85	11	7.9	7.5	10.2	13.8	16.0	11.9	17.0	17.0	17.0	14.4	COLOGNE 2
444656	935446	85	11	15.9	17.0	17.0	17.0	17.0	17.0	26.2	26.2	26.1	27.1	YOUNG AMERICA 1
444723	933557	85	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CHASKA 00
444723	933557	85	11	18.7	16.7	32.7	32.7	25.5	20.7	.0	.0	.0	.0	CHASKA 2
444824	933656	85	11	.0	.0	.0	.0	.0	.0	55.0	177.2	117.8	64.7	CHASKA 5
444833	933640	85	11	.0	.0	.0	135.2	122.7	147.9	148.7	34.0	77.2	86.7	CHASKA 4
445310	934431	85	11	3.4	7.5	4.2	6.7	7.3	8.2	10.8	6.6	7.7	8.5	ST PAUL BIBLE COLLEG 1
CARVER COUNTY TOTALS				542.0	552.8	563.6	705.6	664.6	373.6	433.1	425.9	408.5	347.8	

Table 5.—Annual withdrawals from the Mount Simon-Hinckley aquifer—Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
DAKOTA COUNTY														
444101	924746	85	97	27.5	22.1	22.1	22.1	25.0	22.1	45.9	24.5	42.5	30.0	ALMQUIST, E. 1
444339	925008	85	32	42.5	34.0	34.0	34.0	49.8	34.0	25.5	25.5	25.5	25.5	HASTINGS STATE HOSP 2
444557	930224	100	46	.0	.0	.0	.0	70.1	381.5	249.3	220.0	350.1	364.1	KOCH REFINING 7
444602	930222	100	46	19.9	19.0	20.1	19.8	17.7	.9	.2	3.7	2.0	1.2	KOCH REFINING 6
444606	930240	85	46	365.6	427.7	329.9	364.3	498.9	431.9	483.7	440.7	418.2	434.8	KOCH REFINING 5
444654	930158	85	46	10.6	8.6	8.6	4.2	5.0	4.4	6.2	3.5	3.9	3.7	CENEX 1
444724	931602	85	11	.0	.0	.0	.0	.0	.0	.0	16.7	17.0	17.0	BURNSVILLE 9
444758	930607	85	46	57.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	CENEX INC 1
445254	930238	25	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SOUTH ST PAUL 01
445323	930124	85	41	1020.0	935.0	935.0	935.0	935.0	935.0	765.0	765.0	765.0	.0	ARMOUR & CO 4
445323	930130	85	41	382.5	255.0	255.0	255.0	255.0	255.0	212.5	212.5	212.5	.0	ARMOUR & CO 3
445323	930134	25	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ARMOUR AND CO 1
445326	930134	25	41	125.0	87.5	87.5	87.5	87.5	87.5	62.5	62.5	62.5	.0	ARMOUR & CO 2
445330	930131	25	41	87.5	62.5	62.5	62.5	62.5	62.5	50.0	50.0	50.0	.0	ARMOUR & CO 6
445338	930139	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 3
445339	930155	25	41	3.8	3.8	3.8	2.2	3.8	3.3	2.5	2.5	2.5	2.5	RIFKIN & SONS 2
445342	930151	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 1
445342	930213	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO 03
445342	930213	25	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 02
445346	930206	85	41	127.5	191.3	286.8	285.0	225.6	191.3	2.7	1.7	1.7	1.7	SWIFT & CO. 2
445425	930249	25	11	16.3	21.1	36.4	.0	.0	.0	.0	.0	.0	.0	SOUTH ST PAUL 02
DAKOTA COUNTY TOTALS				2285.7	2068.5	2082.6	2072.5	2236.8	2410.3	1906.9	1829.7	1954.3	881.4	

Table 5.—Annual withdrawals from the Mount Simon-Hinckley aquifer—Continued

(Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
HENNEPIN COUNTY														
445012	932036	85	11	0.0	0.0	0.0	0.0	0.0	0.0	17.9	17.9	18.0	386.2	BLOOMINGTON 3
445153	932021	100	11	263.2	306.7	275.3	208.1	371.7	204.3	256.5	194.3	248.4	233.0	EDINA 10
445325	931559	85	11	.0	.0	.0	.0	.0	.0	.0	.0	191.3	191.3	RICHFIELD 7
445347	932139	100	11	26.9	18.7	8.2	10.7	45.6	28.0	74.0	70.2	56.9	50.1	EDINA 9
445415	934457	100	11	.0	.0	.0	7.8	7.4	7.0	10.0	10.0	10.0	10.0	ST BONIFACIUS 2
445415	934457	85	11	8.5	8.5	8.5	6.6	8.5	8.5	8.5	8.5	8.5	8.5	ST BONIFACIUS 1
445512	932340	100	11	309.1	270.7	157.9	272.3	208.4	22.8	57.6	180.0	369.8	202.0	EDINA 12
445517	932112	100	11	324.5	240.7	288.0	131.3	200.6	178.7	108.4	117.8	129.8	73.7	ST LOUIS PARK 12
445625	931352	10	41	.6	.2	.0	.0	.0	.0	.3	.2	.2	.2	ARCHER DANIELS MIDLA 1
445648	933951	100	11	74.9	97.5	4.2	133.9	139.2	227.8	202.2	127.6	.4	75.0	MOUND 4
445657	931538	100	31	14.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	SEARS,ROEBUCK & CO 1
445702	932202	100	11	32.8	257.6	282.5	311.6	318.7	306.5	315.8	266.6	189.3	331.8	ST LOUIS PARK 11
445717	931425	85	47	17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHITE FARM EQUIP 2
445717	931425	85	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MILWAUKEE ROAD 2
445754	932122	100	11	394.9	170.9	186.6	457.0	355.2	294.6	101.8	49.2	63.2	92.2	ST LOUIS PARK 13
445801	931618	100	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	LAURENCE LAUNDRIES 1
445804	931413	10	32	2.2	1.7	1.5	1.5	1.8	1.6	1.1	1.2	.9	.4	ST.MARY'S HOSPITAL 1
445815	931535	100	32	18.2	.0	.0	.0	.0	.0	5.0	5.0	5.0	5.0	SWEDISH HOSP 1
445817	931612	100	32	53.0	30.0	46.0	45.9	47.0	44.3	49.4	43.8	51.7	46.8	CURTIS HOTEL 1
445817	931616	25	31	20.7	27.0	25.0	36.3	32.8	28.8	29.3	29.5	30.5	27.0	DONALDSONS 2
445821	931635	100	31	2.0	1.8	2.0	.9	.0	.0	.0	.0	.0	.0	YWCA 1
445828	931633	100	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	AMERICAN LINEN 2
445832	931305	100	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BURLINGTON NORTHERN 1
445841	931611	100	31	3.0	.9	.5	14.3	1.0	1.0	3.0	3.0	3.0	3.0	NATIONAL CITY BANK 1
445856	931607	100	32	3.0	3.0	3.0	2.0	20.0	20.0	15.0	15.0	15.0	15.0	SOULS HARBOR 1
445902	931712	100	40	45.0	54.4	60.2	63.4	61.3	67.2	66.8	71.9	70.7	64.8	N.W. LININ 1
445939	931445	100	40	5.5	13.0	9.1	9.5	9.8	8.3	6.9	6.1	.0	.0	BURLINGTON NORTHERN 3
445958	931614	25	41	55.0	124.8	100.5	76.3	.0	.0	.0	.0	.0	.0	GRAIN BELT 4

Table 5.—Annual withdrawals from the Mount Simon-Hinckley aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
HENNEPIN COUNTY—Continued														
445958	931614	25	41	36.3	29.0	29.5	24.7	19.5	19.1	4.5	0.0	0.0	0.0	GRAIN BELT 6
445958	931614	25	41	20.3	20.8	20.0	19.4	10.0	5.0	.0	.0	.0	.0	GRAIN BELT 3
445958	931614	100	41	453.2	316.0	447.5	607.1	572.3	495.5	.0	.0	.0	.0	GRAIN BELT 5
445958	931614	25	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GRAIN BELT 1
450005	931716	100	40	.0	.0	.0	41.0	34.2	40.8	20.4	45.0	41.6	53.9	GROSS INDUSTRIAL TOW 1
450115	931502	25	40	13.1	14.0	14.0	14.0	14.1	14.0	10.0	10.0	10.0	10.0	SOCLINE RAILROAD CO. 2
450150	931606	100	40	7.1	6.0	1.6	6.0	6.0	6.0	.0	.0	.0	.0	BURLINGTON NORTHERN 3
450433	932328	100	11	31.2	82.6	141.1	94.3	64.6	68.7	59.1	116.8	122.3	96.9	BROOKLYN PARK 6
450514	932202	85	11	240.0	223.0	48.0	52.1	137.7	116.8	70.5	164.3	63.4	149.1	BROOKLYN PARK 4
450514	932529	85	11	.0	.0	.0	12.8	22.8	3.2	12.3	31.5	48.4	31.5	MAPLE GROVE 1
450543	931829	100	11	42.7	15.4	13.2	99.1	58.8	139.8	190.3	116.2	147.4	122.5	BROOKLYN PARK 1
450550	932024	85	11	154.8	24.4	120.3	154.0	75.8	171.7	58.7	82.4	104.5	59.7	BROOKLYN PARK 2
450627	932519	85	44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BARTON CONTRACTING 1
450921	932350	85	11	.0	.0	.0	.0	.0	.0	.0	.0	8.5	.2	CHAMPLIN 3
451153	932506	85	11	.0	.0	.0	.0	.0	.0	22.1	22.1	22.1	38.3	CHAMPLIN 1
HENNEPIN COUNTY TOTALS				2672.7	2369.3	2304.2	2923.9	2854.8	2540.0	1787.4	1816.1	2040.8	2388.1	
RAMSEY COUNTY														
445547	930721	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SCHMIDT BREWING CO. 1
445547	930721	85	41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SCHMIDT BREWING CO. 2
445641	930540	100	31	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	LOWRY MEDICAL 1
445646	930522	25	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GUARDIAN BLDG. 1
445646	930616	100	40	36.0	37.0	35.0	32.6	29.6	35.0	40.0	40.0	40.0	40.0	AMERICAN LINEN 3
445712	930936	100	31	20.0	10.0	9.3	6.3	5.7	6.0	6.0	6.0	6.0	6.0	MONTGOMERY WARD 1
445737	931146	25	42	102.2	87.0	87.0	79.9	69.1	62.0	57.1	3.5	3.6	.7	HOERNER WALDORF 4
445746	930555	100	40	59.6	47.1	10.5	22.0	25.7	26.2	22.0	22.0	22.0	22.0	BURLINGTON NORTHERN 2

Table 5.—Annual withdrawals from the Mount Simon-Hirckley aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
RAMSEY COUNTY—Continued														
445751	930723	100	40	78.4	70.7	69.3	68.7	3.4	8.0	0.0	0.0	0.0	0.0	BURLINGTON NORTHERN 1
445812	930908	100	46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	KOPPERS COMPANY 2
450238	930004	100	11	158.5	90.0	125.0	25.0	53.2	132.3	80.0	37.9	123.2	80.0	WHITE BEAR LAKE 5
450539	925947	25	61	64.4	.0	.0	.0	.3	.0	.0	72.0	.0	.0	RAMSEY CO. LAKE WHIT 3
450614	931217	85	11	118.5	73.4	46.6	64.9	48.5	41.8	73.1	89.0	57.3	82.8	MOUNDSVIEW 1
450620	931217	100	11	48.9	6.1	12.4	5.3	10.5	5.5	5.0	7.4	14.3	14.2	MOUNDSVIEW 2
RAMSEY COUNTY TOTALS				696.5	421.3	395.1	304.7	246.0	316.8	283.2	277.8	266.4	245.7	
SCOTT COUNTY														
443957	933748	100	11	15.0	15.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	18.0	JORDAN 4
444012	933741	85	11	29.8	25.5	25.5	25.5	25.5	25.5	27.2	27.2	27.2	27.2	JORDAN 3
444017	933751	100	11	20.0	15.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	18.0	JORDAN 2
444634	932127	100	11	.0	.0	.0	.0	.0	.0	.0	.0	19.3	4.8	SAVAGE 2
444725	933126	25	11	22.7	15.2	14.1	23.1	18.4	20.0	20.0	20.0	20.0	20.0	SHAKOPEE 2
444726	933108	25	11	29.2	31.7	30.0	32.7	24.0	29.5	25.0	25.0	25.0	25.0	SHAKOPEE 3
444747	933221	55	41	112.4	90.2	60.3	64.5	63.4	72.6	106.0	81.0	42.5	133.1	RAHR MALTING 4
444748	933211	55	41	20.7	28.9	60.3	64.5	63.4	38.5	74.4	74.4	74.4	77.4	RAHR MALTING 2
444748	933211	55	41	20.7	28.9	60.3	64.5	63.4	72.6	72.8	81.0	42.5	77.4	RAHR MALTING 1
444749	933207	55	41	112.0	52.6	60.3	64.5	63.4	72.6	94.8	81.0	42.5	16.9	RAHR MALTING 3
444810	933129	25	11	10.0	13.4	6.9	11.0	7.9	9.8	5.0	5.0	5.0	5.0	SHAKOPEE 1
SCOTT COUNTY TOTALS				392.5	316.4	347.7	380.3	359.4	371.1	461.2	430.6	334.4	422.8	

Table 5.—Annual withdrawals from the Mount Simon-Hinckley aquifer—Continued

(Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well owner and No.
WASHINGTON COUNTY														
445253	930145	85	40	0.0	34.0	34.0	34.0	34.0	34.0	76.5	76.5	76.5	119.3	NEWPORT COLD STORAGE 2
445253	930145	85	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NEWPORT COLD STORAGE 1
445253	930145	85	40	223.4	223.4	156.4	156.4	73.1	64.3	127.5	127.5	127.5	127.5	NEWPORT COLD STORAGE 3
445951	925251	85	11	13.1	12.5	13.4	14.1	14.5	24.2	17.4	18.5	15.0	14.5	LAKE ELMO 1
450101	924631	85	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BAYPORT 1
450127	924634	85	48	107.1	100.7	107.9	136.4	141.5	144.7	169.7	162.9	165.0	165.0	ANDERSON CORP 1
450127	924634	85	48	.0	.0	.0	.0	.0	.0	.0	.0	.0	35.0	ANDERSON CORP 2
450153	924638	100	25	28.6	28.1	13.7	18.3	21.4	17.4	21.4	15.8	26.8	15.0	NORTHERN STATES POW 11
450153	924638	100	25	20.6	22.5	19.0	14.2	18.0	21.9	21.4	35.9	20.4	42.3	NORTHERN STATES POW 12
450303	925046	85	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	STILLWATER 7
450326	924822	85	40	45.3	102.9	99.4	56.1	11.6	56.1	12.8	12.8	12.8	12.8	MAPLE ISLAND 1
450328	924829	85	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	STILLWATER 3
450334	924910	85	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	STILLWATER 2
451512	924602	85	44	23.2	14.5	14.5	13.0	16.7	14.5	17.0	17.0	17.0	17.0	BARTON CONTRACTING 1
451655	925904	85	11	3.7	4.3	4.6	4.9	5.2	.0	.0	.0	.0	.0	FOREST LAKE 1
451706	925913	100	11	65.0	100.0	100.0	100.0	100.0	137.1	166.0	154.0	89.7	161.4	FOREST LAKE 3
WASHINGTON CO TOTALS				530.0	642.9	562.9	547.4	436.0	514.2	629.7	620.9	550.7	709.8	
TWIN CITIES TOTALS														
TWIN CITIES TOTALS				8704.4	7900.6	7724.7	8346.8	8133.1	8172.8	7824.1	7379.8	7626.6	7098.8	

Table 6.—Annual withdrawals from the Iron-ton-Galesville aquifer

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY														
450403	931509	15	11	18.8	30.6	20.5	10.8	16.2	3.0	11.4	4.7	11.1	11.6	FRIDLEY 1
450613	931441	5	11	.8	.6	.6	.6	.6	.6	.8	.8	.8	.5	FRIDLEY TERRACE 2
450639	931530	15	11	21.9	10.8	8.9	15.5	3.0	15.3	6.7	3.5	2.6	11.2	SPRING LAKE PARK 1
450811	931418	5	11	4.9	4.5	5.1	3.8	4.5	4.5	4.8	4.4	4.4	5.1	BLAINE CITY OF 4
450856	931627	15	11	7.1	6.1	1.7	3.8	4.1	4.0	20.7	12.6	7.6	13.7	COON RAPIDS 5
450858	931427	100	11	.0	.0	43.5	109.6	108.1	153.4	75.0	164.8	152.6	114.0	BLAINE CITY OF 10
450902	930919	100	11	25.4	50.4	35.0	35.0	14.9	35.0	10.0	10.0	50.0	50.0	CIRCLE PINES 2
450911	931828	15	11	.0	.0	.0	.0	.0	.0	4.1	5.4	4.1	4.1	COON RAPIDS 12
450912	930515	100	11	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	LINO LAKES 1
450912	931903	15	11	.0	.0	.4	2.5	.5	29.9	42.1	55.0	60.6	54.0	COON RAPIDS 11
450928	930904	15	11	1.8	3.5	3.5	4.3	3.7	1.8	3.0	3.1	2.8	2.4	BLAINE CITY OF 6
450934	930908	15	11	.0	.0	.0	.0	.2	.0	2.9	2.7	2.5	2.7	BLAINE CITY OF 11
450938	931538	15	11	6.8	3.0	2.6	2.6	.7	1.4	4.0	1.5	2.9	.5	BLAINE CITY OF 1
450942	931926	15	11	.0	.0	.0	.0	.0	.0	.0	.5	20.0	15.0	COON RAPIDS 15
450950	931936	15	11	.0	.0	.0	.0	.0	.0	.0	.9	2.7	2.7	COON RAPIDS 14
450950	932028	15	11	34.9	36.5	33.9	19.6	31.8	30.3	32.9	27.5	13.7	17.5	COON RAPIDS 7
450951	931520	15	11	13.2	3.3	5.8	5.0	.7	1.2	3.0	1.1	3.5	.9	BLAINE CITY OF 2
451002	931423	100	11	.0	.0	2.0	116.4	196.3	185.9	165.0	177.8	158.6	138.0	BLAINE CITY OF 8
451006	931707	15	11	5.9	1.7	1.2	.9	.4	.8	2.4	1.5	.4	.1	COON RAPIDS CITY OF 2
451029	931623	15	11	.0	19.2	27.4	14.3	22.5	12.6	25.7	5.0	16.6	11.3	COON RAPIDS 10
451031	931626	15	11	41.5	16.6	14.5	23.5	11.4	31.1	51.5	9.0	22.5	14.3	COON RAPIDS CITY OF 8
451032	931626	100	11	181.9	157.0	190.1	265.2	300.7	263.0	136.9	175.5	149.2	62.0	COON RAPIDS CITY OF 9
451035	931704	100	11	14.0	9.2	6.0	4.1	3.1	3.6	1.0	1.0	1.0	1.0	COON RAPIDS 1
451040	931257	100	97	.0	.0	.0	.0	.0	.0	.0	.0	5.0	26.4	HENTGES 1
451046	930743	100	11	11.7	11.9	10.0	15.8	8.5	9.0	8.5	7.6	8.2	9.6	MINN YOUTH CENTER 1
451057	931511	100	11	.2	100.8	141.1	107.1	88.7	85.3	142.0	129.2	99.6	94.7	BLAINE CITY OF 7
451059	932014	15	11	6.2	27.7	10.7	35.1	30.6	10.5	8.1	6.6	6.8	7.2	COON RAPIDS 4
451106	931521	15	11	6.9	8.9	12.7	7.4	6.1	5.9	15.3	6.3	6.5	9.0	BLAINE CITY OF 5

Table 6.—Annual withdrawals from the Ironton-Galesville aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANKA COUNTY—Continued													
451132	931425	100 11	.0	.0	.0	47.8	38.1	45.9	220.0	70.0	30.3	58.2	BLAINE CITY OF
451135	932300	5 11	7.5	10.0	10.0	10.0	10.0	10.0	9.5	7.0	7.0	4.6	ANKA
451141	931234	15 97	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.8	HENTGES
451206	932212	100 47	20.0	20.0	20.0	20.0	20.0	20.7	9.8	5.4	7.6	15.1	FEDERAL CARTRIDGE
451206	932212	100 47	80.0	80.0	80.0	80.0	80.0	46.8	44.1	84.9	84.6	46.7	FEDERAL CARTRIDGE
451206	932212	100 47	80.0	80.0	80.0	80.0	80.0	46.8	85.0	84.9	84.6	85.0	FEDERAL CARTRIDGE
451208	931340	15 97	.0	.0	.0	.0	.0	.0	.0	.9	.9	.9	GILLUND
451208	932219	100 47	60.0	60.0	60.0	60.0	60.0	70.1	78.8	30.3	39.4	74.3	FEDERAL CARTRIDGE
451217	932432	100 11	250.0	400.0	400.0	400.0	425.2	390.4	415.4	382.8	375.7	367.0	ANKA
451217	932432	15 11	.0	.0	.0	.0	.0	.0	.0	47.4	48.0	48.0	ANKA
451236	932322	100 11	50.0	40.0	40.0	40.0	40.0	40.0	15.7	1.4	.0	.0	ANKA
451236	932323	100 11	50.0	40.0	40.0	40.0	47.7	13.0	13.7	1.4	1.0	1.0	ANKA
451256	932309	100 32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ANKA STATE HOSP
451256	932309	100 32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ANKA STATE HOSP
451256	932309	100 32	.2	.2	.2	.2	.2	.2	.0	.0	.0	.0	ANKA STATE HOSP
451320	931507	15 81	.0	4.8	4.8	4.8	4.8	4.8	7.7	7.7	7.7	7.7	MAJESTIC OAKS GOLF C
451512	931205	15 97	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	.1	HOGDAL
451545	932746	15 97	3.3	.0	.0	.0	.0	.0	.0	.0	.0	1.6	SORTEBERG
451551	932121	100 97	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	BENNETT
452024	933010	15 97	.0	.0	.0	.0	.0	.0	.0	17.0	17.0	2.8	MORITZ
452423	931328	100 97	.0	.0	.0	.0	.0	.0	.0	5.0	5.0	5.0	A & B FARMS
ANKA COUNTY TOTALS			1012.9	1246.3	1321.2	1594.7	1672.3	1585.8	1686.5	1574.3	1537.1	1408.3	

Table 6.—Annual withdrawals from the Ironton-Galesville aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
CARVER COUNTY													
444356	935802	15 11	1.6	1.5	1.4	1.5	1.5	1.6	2.2	1.7	1.9	1.9	HAMBURG 1
444357	935750	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	HAMBURG DAIRY ASSOC 1
444545	935058	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BONGARDS CREAMERIES 1
444552	935544	5 11	.9	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	NORWOOD 1
444555	935539	100 11	19.3	23.0	24.7	26.8	21.6	24.0	25.0	25.0	25.0	14.1	NORWOOD 2
444607	934650	15 11	1.4	1.3	1.8	2.4	2.8	2.1	3.0	3.0	3.0	2.5	COLOGNE 1
444607	935542	100 11	47.5	42.0	39.9	41.9	42.3	42.6	42.7	42.4	46.8	35.8	OAK GROVE DAIRY 1
444614	934656	100 11	.9	.3	.3	.3	.3	.3	.3	.3	.3	.3	COLOGNE 1
444656	935446	15 11	2.8	3.0	3.0	3.0	3.0	3.0	4.6	4.6	4.6	4.8	YOUNG AMERICA 1
444723	933557	15 11	3.3	2.9	5.8	5.8	4.5	3.7	.0	.0	.0	.0	CHASKA 2
444723	933557	15 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CHASKA 00
444808	933424	100 41	37.1	47.6	48.3	50.6	58.2	29.8	81.8	49.6	42.6	58.0	M.A. GEDNEY 1
444808	933425	100 41	38.4	83.7	50.1	37.4	45.2	15.8	8.8	35.5	21.4	22.0	M.A. GEDNEY 2
444824	933656	15 11	.0	.0	.0	.0	.0	.0	9.7	31.3	20.8	11.4	CHASKA 5
444833	933640	15 11	.0	.0	.0	23.9	21.7	26.1	26.2	6.0	13.6	15.3	CHASKA 4
445100	934712	50 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WACONIA 1
445100	934712	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WACONIA 1
445100	934712	100 11	75.0	55.0	55.0	55.0	55.0	55.0	60.0	60.0	60.0	60.0	WACONIA 1
445256	933830	45 11	.0	.0	.0	.0	.0	.0	.1	.9	1.2	1.1	VICTORIA 1
445305	935802	100 11	6.5	6.9	7.6	7.0	6.0	5.8	8.9	6.1	7.1	7.3	NEW GERMANY 1
445310	934431	15 11	.6	1.3	.7	1.2	1.3	1.5	1.9	1.2	1.4	1.5	ST PAUL BIBLE COLLEG 1
445312	935320	100 11	8.7	11.6	11.7	14.4	12.0	14.0	16.4	11.9	11.8	13.0	MAYER 1
CARVER COUNTY TOTALS			244.0	281.3	251.5	272.4	276.6	226.5	292.9	280.8	262.8	250.3	

Table 6.—Annual withdrawals from the Iron-ton-Galesville aquifer—Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY													
443824	930855	5 41	11.1	8.8	8.8	8.8	8.8	8.8	5.3	5.3	5.3	5.3	TWIN CITIES MILK PRO 1
444101	924746	15 97	4.9	3.9	3.9	3.9	4.4	3.9	8.1	4.3	7.5	5.3	ALQUIST, E. 1
444339	925008	15 32	7.5	6.0	6.0	6.0	8.8	6.0	4.5	4.5	4.5	4.5	HASTINGS STATE HOSP 2
444606	930240	15 46	64.5	75.5	58.2	64.3	88.0	76.2	85.4	77.8	73.8	76.7	KOCH REFINING 5
444654	930158	15 46	1.9	1.5	1.5	.7	.9	.8	1.1	.6	.7	.7	CENEX 1
444724	931602	15 11	.0	.0	.0	.0	.0	.0	.0	2.9	3.0	3.0	BURNSVILLE 9
444758	930607	15 46	10.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	CENEX INC 1
445254	930238	5 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SOUTH ST PAUL 01
445323	930124	15 41	180.0	165.0	165.0	165.0	165.0	165.0	135.0	135.0	135.0	.0	ARMOUR & CO 4
445323	930130	15 41	67.5	45.0	45.0	45.0	45.0	45.0	37.5	37.5	37.5	.0	ARMOUR & CO 3
445323	930134	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ARMOUR AND CO 1
445326	930134	5 41	25.0	17.5	17.5	17.5	17.5	17.5	12.5	12.5	12.5	.0	ARMOUR & CO 2
445330	930131	5 41	17.5	12.5	12.5	12.5	12.5	12.5	10.0	10.0	10.0	.0	ARMOUR & CO 6
445338	930139	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 3
445339	930155	5 41	.8	.8	.8	.4	.8	.7	.5	.5	.5	.5	RIFKIN & SONS 2
445342	930151	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 1
445342	930213	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO 02
445342	930213	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SWIFT & CO. 03
445346	930206	15 41	22.5	33.8	50.6	50.3	39.8	33.8	.5	.3	.3	.3	SWIFT & CO. 2
445425	930249	5 11	3.3	4.2	7.3	.0	.0	.0	.0	.0	.0	.0	SOUTH ST PAUL 02
DAKOTA COUNTY TOTALS			416.6	374.7	377.3	374.6	391.7	370.4	300.6	291.4	290.8	96.5	

HENNEPIN COUNTY

444548	933731	100 11	19.5	25.1	24.7	34.4	40.9	26.8	29.0	23.5	23.6	11.0	LORETO 2
444548	933731	100 11	3.0	4.0	3.2	3.3	3.3	3.3	3.3	3.3	.0	11.0	LORETO 1
445012	932036	15 11	.0	.0	.0	.0	.0	.0	.0	.0	3.2	68.2	BLOOMINGTON 3
445325	931559	15 11	.0	.0	.0	.0	.0	.0	.0	.0	33.8	33.8	RICHFIELD 7

Table 6.—Annual withdrawals from the Iron-ton-Galesville aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

HENNEPIN COUNTY—Continued													
Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
445415	934457	15 11	1.5	1.5	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.5	ST BONIFACIUS 1
445514	932443	5 11	10.8	12.0	12.7	10.0	11.3	9.2	2.5	2.5	2.5	2.5	HOPKINS 1
445529	932434	5 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	HOPKINS 2
445558	934009	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MOUND 2
445608	933913	100 11	149.7	114.7	274.3	225.0	285.7	263.0	226.9	188.5	96.8	148.4	MOUND 3
445610	933804	100 11	15.5	21.0	21.0	21.0	21.0	21.0	38.0	38.0	38.0	11.0	SPRING PARK 1
445625	931352	5 41	.3	.1	.0	.0	.0	.0	.2	.1	.1	.1	ARCHER DANIELS MIDLA 1
445700	931724	5 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SANITARY ICE 1
445714	931419	5 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHITE FARM EQUIP 1
445717	931425	15 47	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	WHITE FARM EQUIP 2
445717	931425	15 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MILWAUKEE ROAD 2
445726	931639	5 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR LAKE ICE 1
445728	934036	5 11	.0	.0	.0	.0	.3	.3	.4	.4	.4	.4	MINNETRISTA 1
445728	934036	100 11	5.0	4.0	6.4	4.5	4.0	2.2	4.0	4.6	4.0	4.0	MINNETRISTA 2
445804	931413	5 32	1.1	.8	.7	.7	.9	.8	.6	.6	.5	.2	ST. MARY'S HOSPITAL 1
445817	931616	5 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	DONALDSONS 1
445817	931616	5 31	4.1	5.4	5.0	7.3	6.6	5.8	5.8	5.9	6.1	5.4	DONALDSON'S 2
445828	931633	5 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	AMERICAN LINEN 1
445831	931633	5 31	1.1	.9	.9	1.0	1.0	1.0	.0	.0	.0	.0	Y.M.C.A. 1
445834	931625	5 31	4.0	2.0	2.0	2.0	2.0	3.7	4.0	3.8	3.9	4.1	DAYTON'S 1
445834	931625	5 31	.5	.1	.1	.1	.1	.8	.3	.0	.2	.2	DAYTON'S 3
445835	931639	5 31	1.6	1.5	1.5	1.5	1.6	1.5	1.3	1.3	1.3	1.3	ORPHEUM THRE 1
445836	931602	5 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	N.W. BELL TELEPHONE 1
445836	931602	5 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	N.W. BELL TELEPHONE 2
445838	931611	5 31	1.6	1.1	1.2	1.4	1.3	1.3	.9	.9	.9	.8	SOO LINE BLDG 1
445842	931622	5 32	.6	.6	.9	1.0	1.0	.0	.0	.0	.0	.0	DYCKMAN HOTEL 1
445845	931611	5 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	POWERS DRY GOODS 1
445845	931617	5 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	MELS CHAMBER OF COMM 1

Table 6.—Annual withdrawals from the Iron-ton-Galesville aquifer—Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445847	931730	5 41	6.3	6.3	4.9	4.7	5.3	5.3	.0	.0	.0	.0	TWIN CITY MILK PRODU 1
445848	931616	5 32	.4	.1	.3	.3	.3	.3	.0	.0	.0	.0	ANDREWS HOTEL 1
445852	931549	5 31	6.3	5.5	.0	.0	.0	.0	.0	.0	.0	.0	POST OFFICE BLDG 1
445858	931714	5 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR LAKE ICE 2
445912	931514	5 41	1.1	1.0	1.1	1.1	1.1	1.0	.5	.5	.1	.0	NORTHLAND FOREMOST 1
445958	931614	5 41	11.0	25.0	20.1	15.3	.0	.0	.0	.0	.0	.0	GRAIN BELT 4
445958	931614	5 41	4.1	4.2	4.0	3.9	2.0	1.0	.0	.0	.0	.0	GRAIN BELT 3
445958	931614	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GRAIN BELT 1
445958	931614	5 41	7.3	5.8	5.9	4.9	3.9	3.8	.9	.0	.0	.0	GRAIN BELT 6
450005	931716	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	FRANKLIN COOP CREAM 2
450017	931601	5 41	1.5	1.9	2.5	3.3	2.9	3.8	3.0	4.8	3.9	6.7	FLEISCHMANN MALTING C 2
450017	931601	5 41	7.6	5.8	6.1	5.9	5.4	5.7	4.5	4.7	3.9	4.9	FLEISCHMANN MALTING 1
450025	931600	5 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CEDAR SANITARY ICE 1
450027	931617	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GLUCK BREWING 2
450027	931617	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GLUCK BREWING 1
450030	931634	5 25	1.8	1.7	1.5	1.6	1.5	1.5	1.4	1.5	1.3	1.1	N.S.P. 1
450031	933918	100 11	20.0	30.0	30.0	30.0	30.0	30.0	2.0	68.8	.1	.6	MAPLE PLAIN 1
450032	933924	100 11	20.0	30.0	30.0	30.0	30.0	30.0	70.0	1.2	69.3	69.2	MAPLE PLAIN 2
450115	931502	5 31	2.6	2.8	2.8	2.8	2.8	2.8	2.0	2.0	2.0	2.0	SOOLINE RAILROAD CO. 2
450151	931610	5 40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BURLINGTON NORTHERN 2
450514	932202	15 11	42.3	39.4	8.5	9.2	24.3	20.6	12.4	29.0	11.2	26.3	BROOKLYN PARK 4
450514	932529	15 11	.0	.0	.0	2.3	4.0	.6	2.3	5.7	8.5	5.6	MAPLE GROVE 1
450550	932024	15 11	27.3	4.3	21.2	27.2	13.4	30.3	10.4	14.5	18.4	10.5	BROOKLYN PARK 2
450627	932519	15 44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	BARTON CONTRACTING 1
450657	932407	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	OSSEO 00
450800	932235	100 97	13.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	GRAY 1
450802	932009	100 97	8.6	10.1	7.2	10.6	7.9	12.3	26.9	15.4	5.0	11.5	ZACHOW 1
450914	932310	5 97	1.2	.4	.1	.3	.4	.5	1.8	.5	.3	.6	BROOKLYN FARMS 1

Table 6.--Annual withdrawals from the Ironton-Galesville aquifer--Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY--Continued													
450921	932350	15 11	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	CHAMPLIN 3
451013	932338	100 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	CHAMPLIN 2
451117	933306	100 11	9.0	14.0	14.0	14.0	14.0	14.0	20.0	20.0	20.0	20.0	ROGERS 2
451117	933306	100 11	9.0	14.0	14.0	14.0	14.0	14.0	20.0	20.0	20.0	22.8	ROGERS 1
451153	932506	15 11	.0	.0	.0	.0	.0	.0	3.9	3.9	3.9	6.8	CHAMPLIN 1
HENNEPIN COUNTY TOTALS			423.3	412.1	545.3	510.8	560.7	534.7	515.7	482.4	401.2	520.3	

RAMSEY COUNTY

445532	931050	5 32	3.0	2.2	2.9	3.3	2.9	2.9	2.7	2.7	2.7	2.7	ST. CATHERINES 1
445547	930721	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SCHMIDT BREWING CO. 2
445547	930721	15 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	SCHMIDT BREWING CO. 1
445641	930614	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	CRESCENT CREAMERY 2
445646	930522	5 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	GUARDIAN BLDG. 1
445657	930537	5 31	.4	.3	.4	.2	.2	.2	.2	.0	.0	.0	DNALDSONS 1
445716	924640	5 44	6.3	8.3	6.1	9.6	9.0	.1	9.3	9.4	7.7	7.6	CEMSTONE 1
445733	931131	5 42	45.8	44.5	49.8	43.5	41.4	41.4	37.7	33.0	36.2	36.4	HOERNER WALDORF 1
445735	931130	5 42	34.0	17.5	18.1	17.1	16.5	15.0	8.7	6.4	7.4	7.8	HOERNER WALDORF 5
445737	931146	5 42	20.4	17.4	17.4	16.0	13.8	12.4	11.4	.7	.7	.1	HOERNER WALDORF 4
445742	931045	5 42	12.3	12.1	12.1	12.5	12.3	12.1	9.8	6.5	6.5	6.5	UNIVAC 1
445745	930412	5 41	25.0	25.0	25.0	30.0	30.0	30.0	32.5	30.0	30.0	30.0	OLYMPIA BREWING 5
445750	930415	5 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	OLYMPIA BREWING 3
445957	930127	5 32	.6	.5	.7	.7	.5	.6	.6	.6	.6	.6	RAMSEY CO. NURSING 1
450235	930650	5 61	5.8	4.8	.0	.0	.0	.0	6.9	11.0	.0	.0	RAMSEY CO LAKE OWAS 14
450539	925947	5 61	12.9	.0	.0	.0	.1	.0	.0	14.4	.0	.0	RAMSEY CO. LAKE WHIT 3

Table 6.—Annual withdrawals from the Ironton-Galesville aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	RAMSEY COUNTY—Continued										1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	Well Owner and No.
				1979	1978	1977	1976	1975	1974	1973	1972	1971	1970											
450550	925905	5	61			14.4	.0	.0	9.2	.0	.0	.0	43.7											RAMSEY CO. LAKE WHITT 9
450604	930041	5	61		.0	.0	.0	.0	.0	.0	.0	.0	.0											RAMSEY CO LAKE BALD 15
450614	931217	15	11		10.1	15.7	12.9	7.4	8.6	11.5	8.2	13.0	20.9											MOUNDSVIEW 1
450642	931211	100	11		5.0	10.1	10.1	10.0	10.3	3.1	10.0	10.0	.0											MOUNDSVIEW 4
RAMSEY COUNTY TOTALS				231.1	155.6	150.7	142.8	132.1	154.8	147.5	150.7	155.6	231.1		111.3	106.9	154.9							
SCOTT COUNTY																								
443235	933419	100	11		75.0	75.0	75.0	35.0	13.0	13.0	13.0	12.0	13.2											NEW PRAGUE 3
443235	933419	100	11		30.0	30.0	30.0	30.0	38.0	38.0	38.0	37.6	32.9											NEW PRAGUE 2
443237	933424	100	11		75.0	75.0	75.0	100.0	114.4	99.0	85.0	76.6	82.4											NEW PRAGUE 1
443237	933424	100	11		.0	.0	.0	.0	.0	.0	.0	.0	.0											NEW PRAGUE 01
443237	933424	100	11		.0	.0	.0	.0	.0	.0	.0	.0	.0											NEW PRAGUE 02
443745	934312	100	97		7.0	.0	21.6	2.0	8.0	10.1	5.6	8.6	11.5											KORNER 1
443758	933456	100	41		.0	.0	.0	.0	.0	.0	.0	.0	.0											NEW PRAGUE CREAMERY 1
443758	933456	100	41		40.0	40.0	40.0	39.0	32.2	38.6	41.4	45.4	41.2											NEW PRAGUE CREAMERY 2
444002	933740	100	11		.0	.0	.0	.0	.0	.0	.0	.0	.0											JORDAN 1
444002	933740	100	11		.0	.0	.0	.0	.0	.0	.0	.0	.0											JORDAN 0
444012	933741	15	11		4.8	4.8	4.8	4.5	4.5	4.5	4.5	4.5	5.3											JORDAN 3
444017	933751	100	11		.0	.0	.0	.0	.0	.0	.0	.0	.0											JORDAN 2
444314	933526	100	97		.0	1.4	14.0	7.4	11.7	11.6	3.9	8.6	12.6											FLOOD, R.M. 1
444647	933352	5	12		.9	.9	.8	.8	.1	.6	.4	.6	.6											BOONEVISTA TRAILER P 1
444725	933126	5	11		4.0	4.0	4.0	4.0	3.7	4.6	4.7	3.0	4.5											SHAKOPEE 2
444726	933108	5	11		5.0	5.0	5.0	5.9	4.8	6.6	6.0	6.3	5.8											SHAKOPEE 3

Table 6.—Annual withdrawals from the Ironton-Galesville aquifer—Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
SCOTT COUNTY—Continued														
444747	933221	15	41	30.6	24.6	16.5	17.7	17.4	19.8	28.8	22.2	11.7	36.3	RAHR MALTING 4
444748	933211	15	41	11.4	15.9	16.5	17.7	17.4	19.8	19.8	22.2	11.7	21.0	RAHR MALTING 2
444748	933211	15	41	11.4	15.9	16.5	17.7	17.4	10.5	20.4	20.4	20.4	21.0	RAHR MALTING 1
444749	933207	15	41	30.6	14.4	16.5	17.7	17.4	19.8	25.8	22.2	11.7	4.5	RAHR MALTING 3
444810	933129	5	11	2.0	2.7	1.4	2.2	1.6	2.0	1.0	1.0	1.0	1.0	SHAKOPEE 1
SCOTT COUNTY TOTALS				296.0	276.7	269.9	299.6	301.6	300.5	366.0	324.1	298.2	330.5	
WASHINGTON COUNTY														
445117	924727	100	73	1.5	6.1	2.0	2.0	.1	.2	1.0	1.0	.6	1.0	AFTON ALPS 1
445117	924727	100	73	30.0	33.9	34.0	34.0	39.5	39.5	40.5	43.1	47.0	47.0	AFTON ALPS 2
445253	930145	15	40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	NEWPORT COLD STORAGE 1
445253	930145	15	40	39.4	39.4	27.6	27.6	12.9	11.3	22.5	22.5	22.5	22.5	NEWPORT COLD STORAGE 3
445253	930145	15	40	.0	6.0	6.0	6.0	6.0	6.0	13.5	13.5	13.5	21.1	NEWPORT COLD STORAGE 2
445703	924816	5	44	4.0	3.8	3.6	3.9	3.5	3.8	3.8	3.8	3.8	3.8	CEMSTONE 1
445951	925251	15	11	2.3	2.2	2.4	2.5	2.6	4.3	3.1	3.3	2.6	2.6	LAKE ELMO 1
450054	924702	100	11	34.6	45.9	51.7	48.3	53.2	44.6	53.0	62.1	53.0	53.0	RAYPORT 2
450100	924702	100	11	27.0	24.1	45.5	27.0	26.1	45.8	48.8	25.1	25.0	12.8	RAYPORT 4
450101	924631	15	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	RAYPORT 1
450112	924720	100	11	29.5	36.9	17.1	40.6	52.1	38.1	37.1	32.9	37.1	41.3	RAYPORT 3
450127	924634	15	48	18.9	17.8	19.0	24.1	25.0	25.5	29.9	28.8	29.1	29.1	ANDERSON CORP 1
450127	924634	15	48	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	ANDERSON CORP 2
450303	925046	15	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	STILLWATER 7
450326	924822	15	40	8.0	18.2	17.6	9.9	2.1	9.9	2.3	2.3	2.3	2.3	MAPLE ISLAND 1
450328	924829	15	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	STILLWATER 3

Table 6.--Annual withdrawals from the Iron-ton-Galesville aquifer--Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY--Continued														
450334	924910	15	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	STILLWATER 2
451512	924602	15	44	4.1	2.6	2.6	2.3	2.9	2.6	3.0	3.0	3.0	3.0	BARTON CONTRACTING 1
451655	925904	15	11	.6	.8	.8	.9	.9	.0	.0	.0	9.3	4.3	FOREST LAKE 1
451655	925904	100	11	12.0	12.0	12.0	12.0	12.0	20.6	24.9	23.1	62.2	28.8	FOREST LAKE 2
WASHINGTON CO TOTALS				211.9	249.7	241.9	241.1	238.9	252.2	283.4	264.5	311.0	278.9	
TWIN CITIES TOTALS				2835.8	2996.4	3157.8	3440.7	3596.6	3402.2	3587.9	3372.4	3208.0	2996.1	

Table 7.—Annual Withdrawals from the St. Peter aquifer

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY													
443639	925949	35 11	0	0	0	0	0	0	0	0	0	0	HAMPTON 01
443639	925949	35 11	0	0	0	0	0	0	0	0	0	0	HAMPTON 1
444418	930733	35 11	4.8	4.4	1.1	3.8	3.2	3.2	0	0	0	0	ROSEMOUNT 1
444612	930927	35 81	0	0	0	0	0	2.5	19.4	11.6	12.9	5.0	APPLE VALLEY GOLF CO 1
445245	930732	35 11	0	0	0	0	0	0	0	0	0	0	MENDOTA HEIGHTS 2
DAKOTA COUNTY TOTALS			4.8	4.4	1.1	3.8	3.2	5.7	19.4	11.6	12.9	5.0	
HENNEPIN COUNTY													
445442	932026	5 11	20.1	21.0	21.0	21.0	21.0	21.0	21.3	22.2	22.3	20.2	EDINA 2
445503	932228	35 81	18.4	12.3	7.6	12.5	11.5	4.6	0	0	0	0	INTERLACHEN COUNTRY 1
445625	931352	25 41	1.4	.4	0	.1	0	0	.8	.6	.5	.5	ARCHER DANIELS MIDLA 1
445659	932202	100 11	0	0	0	0	0	0	0	0	0	0	ST LOUIS PARK 2
445659	932202	100 11	0	0	0	0	0	0	0	0	0	0	ST LOUIS PARK 1
445701	932158	100 11	40.0	30.0	30.0	30.0	30.0	28.7	125.9	46.1	84.6	88.3	ST LOUIS PARK 3
445703	931645	100 41	0	0	0	0	0	0	0	0	0	0	NORTHLAND MILK 1
445804	931413	25 32	5.6	4.2	3.7	3.7	4.5	3.9	2.8	3.1	2.4	1.1	ST. MARY'S HOSPITAL 1
445817	931616	30 31	0	0	0	0	0	0	0	0	0	0	DONALDSON'S 1
445831	931633	30 31	6.4	5.6	5.3	5.9	6.1	6.0	0	0	0	0	Y.M.C.A. 1
445832	931531	100 47	41.5	40.0	34.9	52.2	49.8	40.1	25.0	25.0	25.0	25.0	WOLKERSTORFER CO 1
445849	931659	35 41	0	0	0	0	0	0	0	0	0	0	KEMPS ICE CREAM 1
445849	931659	35 41	0	0	0	0	0	0	0	0	0	0	KEMPS ICE CREAM 2
445857	931632	35 40	21.9	28.0	29.4	31.9	29.1	29.8	29.8	29.8	29.8	29.8	BELL COLD STORAGE 2
445857	931632	35 40	27.9	28.0	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	BELL COLD STORAGE 1
445908	932016	35 40	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	SCHAPER MFG. 2

Table 7.—Annual Withdrawals from the St. Peter aquifer—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445911	932022	35 40	0	0	0	0	0	0	0	0	0	0	SCHAPER MFG 1
450011	931641	35 40	0	0	0	0	0	0	0	0	0	0	CHIC, MILWK, ST P, & OM 1
450039	931240	35 81	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	GROSS GOLF COURSE 1
450045	931635	35 41	0	0	0	0	0	0	0	0	0	0	M.A. GEDNEY 1
450147	932020	20 11	101.5	51.5	58.6	44.2	50.7	20.5	132.1	75.9	.3	15.1	ROBBINSDALE 1
HENNEPIN COUNTY TOTALS			309.9	246.2	245.5	256.5	257.7	209.6	392.7	257.7	219.9	235.0	
RAMSEY COUNTY													
445532	931050	30 32	18.2	13.4	17.5	19.6	17.6	17.1	15.9	15.9	15.9	15.9	ST. CATHERINES 1
445633	930600	35 41	0	0	0	0	0	0	0	0	0	0	ST. PAUL MILK CO. 2
445633	930600	35 41	0	0	0	0	0	0	0	0	0	0	ST. PAUL MILK CO 1
445637	930547	35 31	2.1	0	0	0	0	0	0	0	0	0	JJ HILL REFERENCE LI 1
445641	930614	35 41	0	0	0	0	0	0	0	0	0	0	CRESCENT CREAMERY 1
445642	930544	35 32	0	0	0	0	0	0	0	0	0	0	ST. PAUL HOTEL 1
445651	930541	5 31	5.6	5.1	4.9	5.5	3.9	3.5	4.2	3.9	3.0	2.2	DAYTON'S 1
445655	930538	35 31	4.3	4.1	4.1	3.7	4.0	3.9	3.5	3.5	3.5	3.5	LANE BRYANT 1
445658	930529	35 31	0	0	0	0	0	0	0	0	0	0	EMPORIUM 1
445719	930909	35 41	6.7	3.2	0	0	0	0	0	0	0	0	PEPSI COLA BOTTLING 1
445726	931114	35 41	22.8	22.8	22.8	22.8	22.8	22.8	15.8	15.8	15.8	0	MORRELL J. 1
445732	931116	35 41	1.8	1.2	.9	6.3	.5	.7	0	0	0	0	BARTUSCH PACKING 1
445757	930515	35 40	2.1	1.4	1.4	1.4	1.4	1.4	0	0	0	0	BURLINGTON NORTHERN 1
445758	930355	35 47	0	0	0	0	0	0	0	0	0	0	WHIRLPOOL CORP. 1
445811	930905	35 46	0	0	0	0	0	0	0	0	0	0	KOPPERS COMPANY 3
445954	930109	35 81	7.2	11.6	10.2	10.2	5.7	13.1	13.9	17.9	12.1	14.1	RAMSEY COUNTY GOLF C 2

Table 7.—Annual Withdrawals from the St. Peter aquifer—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
445957	930127	30	32	3.3	3.1	4.0	4.1	2.9	3.6	3.6	3.6	3.6	3.6	RAMSEY CO. NURSING 1
450107	925955	35	11	0	0	0	0	0	0	0	0	0	0	NORTH ST. PAUL 002
450126	925923	35	61	7.4	0	0	0	0	0	0	6.4	0	0	RAMSEY CO LAKE SILV 13
450209	930741	35	61	0	0	0	0	0	0	0	0	0	0	RAMSEY CO LAKE OWAS 14
450220	930924	35	61	10.0	0	0	0	0	0	.7	0	0	0	RAMSEY CO. LAKE JOSE 5
450500	930033	35	11	0	0	0	0	0	0	0	0	0	0	WHITE BEAR LAKE 00
RAMSEY COUNTY TOTALS				91.5	65.9	65.8	73.6	58.8	66.1	57.6	67.0	53.9	39.3	
TWIN CITIES TOTALS														
TWIN CITIES TOTALS				406.2	316.5	312.4	333.9	319.7	281.4	469.7	336.3	286.7	279.3	

Table 8.—Annual withdrawals from the Drift aquifer

(Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY														
450451	931519	100	11	74.0	59.0	32.0	79.0	71.0	80.0	251.2	61.2	169.7	78.8	FRIDLEY 9
450453	931513	100	11	301.4	322.2	239.1	240.9	257.1	126.0	156.4	97.3	86.3	83.9	FRIDLEY 7
450537	931544	100	11	130.0	134.0	202.3	48.5	44.8	230.0	81.2	258.8	230.6	245.0	FRIDLEY 10
450613	931441	100	11	10.0	11.0	11.0	11.0	11.0	11.0	15.0	15.0	15.0	19.1	FRIDLEY TERRACE 1
450805	931105	100	11	44.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	CENTENNIAL SQ HOUSIN 1
450902	930919	100	11	0	0	0	0	0	0	0	0	0	0	CIRCLE PINES CITY OF 1
450908	930934	100	11	0	0	0	0	0	0	0	61.2	44.6	53.0	BLAINE CITY OF 12
450925	930130	100	97	0	0	0	0	0	0	0	5.0	5.0	8.1	LACASSE 1
451005	931955	100	11	5.7	1.0	.6	1.6	2.8	1.8	2.1	.2	1.0	1.0	COON RAPIDS 3
451205	931707	100	81	70.0	38.9	40.0	40.0	40.0	40.0	20.0	20.0	20.0	59.0	COON RAPIDS GOLF COU 1
451205	932110	100	97	0	10.0	10.0	10.0	10.0	10.0	20.0	20.0	20.0	20.0	LEE 1
451243	932413	100	81	52.6	43.0	40.0	33.2	55.3	53.4	109.7	61.6	50.7	38.2	GREENHAVEN GOLF COOR 1
451256	932309	100	32	36.4	32.4	33.9	33.5	27.6	27.8	15.0	0	0	0	ANOKA STATE HOSP 3
451256	932309	100	32	16.0	5.0	5.0	5.0	5.0	5.0	2.0	2.0	0	0	ANOKA STATE HOSP 2
451706	932606	100	97	0	0	0	0	0	0	0	10.0	10.0	10.0	HUNT 1
451805	932951	100	97	0	0	0	0	0	0	0	5.0	5.0	2.4	SONNENBERG 1
452033	932338	100	97	0	0	0	0	0	0	0	5.0	5.0	6.8	MCCALLUM 1
452158	932442	100	97	0	0	0	0	0	0	3.0	3.0	3.0	.2	FRENCH 1
ANOKA COUNTY TOTALS				740.8	696.5	653.9	542.7	564.6	625.0	715.6	665.3	705.9	665.5	
CARVER COUNTY														
444511	933748	100	97	0	0	0	0	0	0	7.7	3.0	0	0	LINDSTROM 1
444723	933557	100	11	0	0	0	0	0	0	0	0	0	0	CHASKA 1
444744	933505	100	41	2.3	1.4	16.5	12.5	10.9	13.0	12.5	12.3	13.3	11.8	AMERICAN CRYSTAL SUG 1
444809	933450	100	11	83.5	102.5	112.4	147.3	50.6	37.7	42.8	9.1	24.5	26.0	CHASKA 3

Table 8.—Annual withdrawals from the Drift aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
CARVER COUNTY—Continued													
444916	934417	100 97	0	0	0	0	0	0	0	0	0	0	MAASS 1
444945	933452	100 81	31.4	32.3	18.0	33.1	10.9	25.5	43.4	0	20.5	19.1	HAZELTINE NAT'L GOLF 1
445100	934704	100 11	25.0	18.0	18.0	18.0	18.0	18.0	20.0	20.0	20.0	20.0	WACONIA 2
445100	934712	50 11	0	0	0	0	0	0	0	0	0	0	WACONIA 1
445102	934721	100 11	0	0	35.0	31.9	38.8	35.0	40.0	40.0	40.0	40.0	WACONIA 4
445102	934721	100 41	0	0	0	0	0	0	0	0	0	0	WACONIA CREAMERY 1
445102	934721	100 11	0	0	35.0	35.0	35.0	35.0	40.0	40.0	40.0	40.0	WACONIA 3
445740	935032	100 11	14.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.7	WATERTOWN 3
445755	935100	100 11	14.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.7	WATERTOWN 2
445755	935100	100 11	14.0	20.0	20.0	20.0	20.0	20.0	30.0	30.0	30.0	20.7	WATERTOWN 1
CARVER COUNTY TOTALS			184.2	214.2	294.9	337.8	224.2	224.2	276.4	194.4	228.3	219.0	
DAKOTA COUNTY													
443120	925639	100 97	0	0	0	0	0	0	0	19.3	17.8	17.3	ILLA, D. 1
443125	925747	100 97	0	0	0	0	0	3.5	11.2	7.0	1.7	3.3	MCCOY, M. 1
443126	925617	100 97	0	0	0	0	0	0	13.9	11.6	6.7	6.9	GERGEN, E.J. 1
443126	925747	100 97	0	15.6	13.0	10.4	19.4	13.0	27.0	16.2	9.7	18.0	MCCOY, M.H. 1
443223	925906	100 97	0	13.0	15.0	13.0	15.1	13.0	43.2	20.3	13.5	16.0	FELTON, A. 2
443227	925535	100 97	0	0	0	0	0	17.0	35.3	32.1	14.3	10.4	CONZENIUS, G. 1
443228	925722	100 97	0	0	0	0	22.5	23.0	0	0	0	0	CHRISTIANSEN, E. 1
443249	925933	100 97	0	0	0	0	0	0	0	0	4.5	6.2	OTTE, J.A. 1
443250	925701	100 97	0	0	0	0	0	15.0	0	0	0	0	CHRISTIANSEN, E. 1
443250	925808	100 97	0	0	0	0	0	15.6	32.0	41.5	18.4	18.4	GERGEN, E & W 1
443251	925541	100 97	0	0	0	0	0	0	0	0	0	0	CONZENIUS, G. 2
443303	925636	100 97	0	0	0	0	0	0	0	0	0	0	MELAMED, R.L. 1

Table 8.—Annual withdrawals from the Drift aquifer—Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443313	925639	100 97	0	0	0	0	0	0	0	0	0	0	CONZEMIUS, G.
443314	925543	100 97	0	0	0	0	0	0	0	15.9	10.1	8.2	CONZEMIUS, G.
443315	925825	100 97	0	0	0	0	0	0	0	12.6	15.0	13.2	GERGEN, L. J.
443722	931030	100 97	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	ADELMANN, F.
443759	931049	100 97	0	0	0	0	0	0	0	36.0	18.0	24.0	DEVNEY, J.
443802	930947	100 97	10.0	14.0	14.0	14.0	15.3	20.2	35.8	17.0	16.8	5.9	ADELMANN, W.
443907	930442	100 97	0	0	0	0	0	0	0	0	0	0	DERNER, A.
443928	930427	100 97	0	0	0	0	0	0	0	7.9	9.6	4.5	DERNER, A. F.
443931	930604	100 97	0	0	0	0	0	0	5.3	4.5	1.7	4.0	STEGMAIER, R.
443947	930336	100 97	0	0	0	0	0	0	0	15.3	6.5	5.4	KAMEN, D.
443948	930908	100 97	0	0	0	0	0	0	0	27.8	11.7	5.2	STEGMAIER, R.
443948	930938	100 97	0	0	0	0	0	0	33.5	38.9	20.0	20.0	REISINGER, D.
444040	930938	100 97	0	0	0	0	0	0	0	29.2	5.8	2.3	STEGMAIER, R.
444040	931017	100 97	0	0	0	0	0	0	0	0	0	0	STEGMAIER, R.
444105	931017	100 97	0	0	0	0	0	0	19.4	35.6	7.8	5.8	STEGMAIER, R.
444109	925346	100 97	0	0	0	0	0	0	37.8	.6	.7	1.6	WYATT, M.
444135	925325	100 97	0	0	0	0	0	30.6	87.5	35.4	61.0	54.3	BAUER, G & J
444154	924958	100 97	0	0	0	0	0	0	6.9	25.2	5.3	4.0	RIES, N.
444154	925015	100 97	0	0	0	0	0	13.7	32.9	27.0	13.0	9.7	CONZEMIUS, J.
444156	925415	100 97	0	0	0	0	23.4	27.1	31.7	19.8	8.6	25.1	GIRGEN, LEO
444158	925055	100 97	0	0	0	0	0	0	32.8	13.8	24.2	9.7	BECKER, L.
444222	925344	100 97	36.0	32.0	32.0	18.6	38.4	39.0	46.2	25.5	8.0	8.0	BAUER, H. / BAILEY,
444222	925432	100 97	0	0	0	0	0	0	0	0	0	0	PETTIT, W.
444227	925536	100 97	0	0	0	0	0	29.4	0	0	0	7.8	STOFFEL, R.

Table 8.—Annual withdrawals from the Drift aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
444251	925429	100 97	0	0	0	0	0	16.8	38.9	31.4	18.4	24.2	BAUER, M. 1
444324	925617	100 97	0	0	0	0	0	18.0	57.6	19.2	15.5	15.2	BAUER, H. 1
444328	931421	100 44	169.2	169.1	175.0	238.2	186.9	156.4	139.3	0	0	0	NORTHWESTERN GRAVEL 1
444401	925620	100 97	0	0	0	0	14.7	9.3	32.4	10.4	8.4	4.7	BAUER, H. 1
445313	930114	100 40	25.4	.9	14.2	0	0	0	0	0	0	0	VAN HOVEN CO 1
445329	930126	100 41	182.6	116.3	128.5	6.0	0	0	0	0	0	0	ARMOUR & CO 5
DAKOTA COUNTY TOTALS			428.2	365.9	396.7	305.2	340.7	465.6	805.6	602.0	377.7	364.3	
HENNEPIN COUNTY													
444749	932106	100 11	18.4	16.7	17.1	22.4	27.5	34.7	26.8	27.8	18.5	17.3	MINNESOTA MASONIC HO 1
445251	931931	100 31	108.1	117.0	125.7	109.1	117.0	96.9	111.1	102.6	91.0	66.7	DAYTON'S 4
445352	933526	100 81	18.2	13.9	10.3	10.0	8.6	7.5	11.0	8.8	.2	3.4	MINNETONKA COUNTRY C 1
445503	932228	100 81	6.4	18.5	8.4	15.4	9.3	19.1	38.6	25.9	26.4	0	INTERLACHEN COUNTRY 2
445604	933930	100 11	0	0	0	0	0	0	0	275.6	398.1	270.1	MOUND 6
445606	933927	100 11	5.0	10.0	10.0	0	0	0	105.8	81.8	9.0	40.0	MOUND 5
445607	933647	100 11	0	0	10.0	10.0	10.0	10.0	30.0	30.0	30.0	30.0	ORONO 2
445611	933956	100 11	141.3	179.4	205.5	200.7	222.8	225.0	212.4	113.1	11.6	11.6	MOUND 1
445825	932150	100 31	63.0	61.9	63.8	62.4	62.4	57.9	65.0	66.0	67.1	64.3	PRODUCT DESIGN & ENG 1
445830	933048	100 11	60.0	75.0	75.0	75.0	71.7	75.0	79.0	79.0	79.0	70.8	WAYZATA 3
445831	933047	100 11	74.0	0	0	0	0	0	0	0	0	0	WAYZATA 1
445832	933048	100 11	70.0	75.0	75.0	75.0	71.7	75.0	79.0	79.0	79.0	70.8	WAYZATA 2
445922	931521	100 47	396.1	257.7	282.6	182.9	194.9	132.6	153.2	189.3	177.7	201.1	SUPERIOR PLATING 2
445928	931422	100 47	64.3	67.6	123.3	105.3	96.5	101.1	105.0	73.7	86.0	90.0	METALLURGICAL INC 1
450012	933518	100 11	0	0	0	0	0	0	0	0	0	0	MEDINA 0
450057	933427	100 11	0	0	0	0	0	0	17.2	18.1	13.7	21.9	MEDINA 2

Table 8.—Annual withdrawals from the Drift aquifer—Continued

Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
450241	933230	100 11	10.4	10.5	10.2	8.3	11.1	9.7	10.3	10.4	11.1	6.7	MEDINA 1
450245	933110	100 81	24.2	21.3	9.5	29.4	31.6	23.0	25.0	25.0	25.0	25.0	ELM CREEK GOLF COURSE 1
450609	932536	100 44	46.0	0	0	0	0	0	0	0	0	0	OSCAR ROBERTS 1
450630	932515	100 44	81.7	79.3	19.7	39.2	60.0	60.0	0	0	0	0	BARTON CONTRACTING 2
450642	932330	100 11	0	0	0	0	0	0	340.6	199.8	245.1	222.6	BROOKLYN PARK 9
450643	932330	100 11	0	0	0	0	0	0	235.0	235.0	235.0	360.3	BROOKLYN PARK 8
450657	932407	100 11	45.0	50.0	50.0	50.0	50.0	50.0	55.0	55.0	55.0	55.0	OSSEO 1
450657	932407	100 11	45.0	50.0	50.0	50.0	50.0	50.0	60.0	60.0	60.0	60.0	OSSEO 2
450712	932103	100 97	18.9	15.1	37.8	22.8	25.0	25.0	48.6	18.1	30.0	17.3	GOETZ 1
450713	932519	100 11	0	0	0	0	130.0	130.9	261.1	246.1	307.0	271.0	MAPLE GROVE 2
450722	932554	100 48	27.0	26.8	27.0	27.0	0	13.0	27.6	28.4	31.6	13.0	REO PLASTICS 1
450745	931939	100 97	10.6	10.0	10.0	10.0	19.3	12.3	54.2	13.8	12.0	8.2	ZIMMERMAN 1
450750	932209	100 97	9.6	34.3	19.8	19.7	10.3	25.2	45.7	8.2	4.2	8.4	WINEGARD 1
450831	932553	100 61	0	0	0	10.0	16.3	20.4	31.9	35.0	35.0	37.6	HENNEPIN CO PARK RES 1
451031	934449	100 11	25.0	20.0	20.0	20.0	20.0	20.0	15.4	18.4	25.4	30.8	ROCKFORD 1
451031	934449	100 11	0	0	20.0	20.0	20.0	20.0	15.4	18.1	25.4	30.8	ROCKFORD 2
HENNEPIN COUNTY TOTALS			1368.2	1210.0	1280.7	1174.6	1336.0	1294.3	2259.9	2142.0	2189.1	2104.7	
RAMSEY COUNTY													
450107	925955	100 11	0	0	0	0	0	0	0	0	0	0	NORTH ST. PAUL 0
450449	930815	100 11	0	0	0	0	43.8	104.5	113.6	87.5	90.0	97.0	SHOREVIEW 4
450450	930855	100 47	0	0	0	0	0	0	0	0	0	0	TWIN CITY ARSENAL 4
450450	930855	100 47	0	0	0	0	0	0	0	0	0	0	TWIN CITY ARSENAL 5
450626	931334	100 61	36.0	25.2	0	9.0	49.2	0	23.8	45.4	24.5	0	RAMSEY CO LAKE SPRI 11
RAMSEY COUNTY TOTALS			36.0	25.2	0	9.0	93.0	104.5	137.4	132.9	114.5	97.0	

Table 8.—Annual withdrawals from the Drift aquifer—Continued

[Values are in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
SCOTT COUNTY														
443645	934540	100	97	0	0	0	0	0	0	4.1	5.3	12.2	15.7	O'BRIEN, K.P. 1
443714	934612	100	11	40.8	44.4	39.6	44.5	51.9	43.0	57.8	47.4	45.0	45.0	BELLE PLAINE 1
443714	934612	100	11	40.8	44.4	39.6	44.5	51.9	43.0	45.0	45.0	45.0	45.0	BELLE PLAINE 2
443718	934515	100	48	81.3	94.9	87.6	77.9	55.6	79.0	90.0	90.0	90.0	90.0	NORWESOO PLASTICS 1
443732	934604	100	11	0	0	0	0	0	0	0	0	0	0	BELLE PLAINE 0
443740	934624	100	41	28.4	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 4
443740	934627	100	41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 3
443742	934625	100	41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 1
443742	934625	100	41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 2
443742	934627	100	41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 1
444254	932521	100	11	6.0	0	0	0	0	0	0	0	0	0	PRIOR LAKE 1
444255	932500	100	11	30.0	45.0	45.0	45.0	17.9	45.0	0	0	0	0	PRIOR LAKE 2
SCOTT COUNTY TOTALS				227.3	228.7	211.8	211.9	177.3	210.0	196.9	187.7	192.2	195.7	
WASHINGTON COUNTY														
444718	925423	100	47	0	332.4	581.1	646.4	646.3	407.6	537.8	472.0	522.5	530.0	3M 6
444725	925450	100	47	784.4	799.1	996.7	1044.7	1044.8	698.3	662.6	601.8	600.0	600.0	3M 5
WASHINGTON CO TOTALS				784.4	1131.5	1577.8	1691.1	1691.1	1105.9	1200.4	1073.8	1122.5	1130.0	
TWIN CITIES TOTALS				3769.1	3872.0	4415.8	4272.3	4426.9	4029.5	5592.2	4998.1	4930.2	4776.2	

Table 9.—Annual ground-water use for public supply

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY														
450340	931649	100	11	0	16.0	5.0	.6	8.6	22.0	37.5	19.8	12.2	16.0	FRIDLEY 13
450403	931509	85	11	106.3	173.5	116.1	61.0	91.8	16.0	64.3	26.7	62.9	65.8	FRIDLEY 1
450403	931509	15	11	18.8	30.6	20.5	10.8	16.2	3.0	11.4	4.7	11.1	11.6	FRIDLEY 1
450445	931514	100	11	178.2	80.8	106.3	111.3	51.3	105.0	209.5	140.5	40.8	110.7	FRIDLEY 2
450446	931514	100	11	18.0	16.0	119.0	252.0	188.0	159.0	275.0	279.1	271.0	277.4	FRIDLEY 6
450451	931519	100	11	74.0	59.0	32.0	79.0	71.0	80.0	251.2	61.2	169.7	78.8	FRIDLEY 9
450453	931513	100	11	301.4	322.2	239.1	240.9	257.1	126.0	156.4	97.3	86.3	83.9	FRIDLEY 7
450454	931514	100	11	87.1	111.7	122.0	73.6	85.7	96.0	111.0	175.4	119.1	76.0	FRIDLEY 4
450456	931514	100	11	27.7	29.3	22.9	.3	9.3	15.0	7.5	.5	0	0	FRIDLEY 3
450456	931517	100	11	232.0	231.2	192.8	227.3	349.2	203.0	155.9	174.7	140.8	236.1	FRIDLEY 8
450457	931502	100	11	54.4	45.1	84.7	99.6	58.9	164.0	110.0	97.3	123.1	182.5	FRIDLEY 5
450537	931544	100	11	130.0	134.0	202.3	48.5	44.8	230.0	81.2	258.8	230.6	245.0	FRIDLEY 10
450538	931544	100	11	0	20.0	20.4	129.1	175.1	106.0	122.6	117.5	184.1	151.0	FRIDLEY 11
450606	931433	100	11	0	0	0	0	6.9	18.0	78.0	14.0	12.6	13.0	FRIDLEY 12
450613	931441	5	11	.8	.6	.6	.6	.6	.6	.8	.8	.8	.5	FRIDLEY TERRACE 2
450613	931441	95	11	13.4	11.0	9.3	10.5	10.4	12.0	16.1	13.8	12.5	9.0	FRIDLEY TERRACE 2
450613	931441	100	11	10.0	11.0	11.0	11.0	11.0	11.0	15.0	15.0	15.0	19.1	FRIDLEY TERRACE 1
450639	931530	85	11	123.8	61.2	50.2	88.1	17.0	86.6	37.9	19.6	15.0	63.6	SPRING LAKE PARK 1
450639	931530	15	11	21.9	10.8	8.9	15.5	3.0	15.3	6.7	3.5	2.6	11.2	SPRING LAKE PARK 1
450639	931530	100	11	76.0	4.3	18.6	9.4	91.3	50.0	70.4	21.6	20.0	20.0	SPRING LAKE PARK 2
450646	931544	100	11	0	150.0	133.1	138.3	141.5	185.0	257.8	237.1	214.9	193.7	SPRING LAKE PARK 3
450805	931105	100	11	44.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	CENTENNIAL SQ HOUSIN 1
450810	931413	100	11	140.4	80.0	88.8	79.0	73.5	75.5	102.8	87.8	88.2	101.4	BLAINE CITY OF 3
450811	931418	95	11	93.0	85.5	96.1	71.8	84.8	84.8	91.6	84.2	84.4	97.3	BLAINE CITY OF 4
450811	931418	5	11	4.9	4.5	5.1	3.8	4.5	4.5	4.8	4.4	4.4	5.1	BLAINE CITY OF 4
450818	931029	100	11	69.0	44.0	50.0	41.0	42.0	69.0	57.3	60.0	64.0	54.5	LEXINGTON 1
450845	930900	100	11	68.1	45.5	61.0	61.0	73.3	64.0	57.7	55.3	98.3	76.9	CIRCLE PINES CITY OF 3
450856	931627	85	11	40.0	34.5	9.5	21.4	23.1	22.7	117.2	71.3	43.2	77.4	COON RAPIDS 5

Table 9.—Annual ground-water use for public supply—Continued

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY—Continued														
450856	931627	15	11	7.1	6.1	1.7	3.8	4.1	4.0	20.7	12.6	7.6	13.7	COON RAPIDS 5
450858	931427	100	11	0	0	43.5	109.6	108.1	153.4	75.0	164.8	152.6	114.0	BLAINE CITY OF 10
450902	930919	100	11	0	0	0	0	0	0	0	0	0	0	CIRCLE PINES CITY OF 1
450902	930919	100	11	25.4	50.4	35.0	35.0	14.9	35.0	10.0	10.0	50.0	50.0	CIRCLE PINES 2
450908	930934	100	11	0	0	0	0	0	0	0	61.2	44.6	53.0	BLAINE CITY OF 12
450911	931828	85	11	0	0	0	0	0	0	23.0	30.4	23.0	23.0	COON RAPIDS 12
450911	931828	15	11	0	0	0	0	0	0	4.1	5.4	4.1	4.1	COON RAPIDS 12
450912	930515	100	11	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	LINO LAKES 1
450912	931903	85	11	0	0	2.3	14.4	2.6	169.4	238.6	311.6	343.5	306.0	COON RAPIDS 11
450912	931903	15	11	0	0	.4	2.5	.5	29.9	42.1	55.0	60.6	54.0	COON RAPIDS 11
450914	930519	100	11	0	0	0	0	0	0	0	0	0	0	LINO LAKES 2
450928	930904	85	11	10.1	19.6	20.0	24.6	21.2	10.3	17.1	17.4	15.8	13.6	BLAINE CITY OF 6
450928	930904	15	11	1.8	3.5	3.5	4.3	3.7	1.8	3.0	3.1	2.8	2.4	BLAINE CITY OF 6
450934	930908	85	11	0	0	0	0	1.0	12.1	16.3	15.5	14.4	15.3	BLAINE CITY OF 11
450934	930908	15	11	0	0	0	0	.2	0	2.9	2.7	2.5	2.7	BLAINE CITY OF 11
450938	931538	85	11	38.4	17.0	14.5	14.8	3.8	7.9	22.5	8.5	16.2	2.8	BLAINE CITY OF 1
450938	931538	15	11	6.8	3.0	2.6	2.6	.7	1.4	4.0	1.5	2.9	.5	BLAINE CITY OF 1
450942	931926	85	11	0	0	0	0	0	0	0	2.0	112.1	85.0	COON RAPIDS 15
450942	931926	15	11	0	0	0	0	0	0	0	.5	20.0	15.0	COON RAPIDS 15
450950	931936	85	11	0	0	0	0	0	0	0	5.1	15.0	15.3	COON RAPIDS 14
450950	931936	15	11	0	0	0	0	0	0	0	.9	2.7	2.7	COON RAPIDS 14
450950	932028	85	11	198.0	206.7	192.3	110.9	180.0	171.5	186.3	155.8	77.9	99.3	COON RAPIDS 7
450950	932028	15	11	34.9	36.5	33.9	19.6	31.8	30.3	32.9	27.5	13.7	17.5	COON RAPIDS 7
450951	931520	85	11	74.5	18.7	33.1	28.5	4.1	7.1	16.8	6.4	20.0	4.8	BLAINE CITY OF 2
450951	931520	15	11	13.2	3.3	5.8	5.0	.7	1.2	3.0	1.1	3.5	.9	BLAINE CITY OF 2
451002	931423	100	11	0	0	2.0	116.4	196.3	185.9	165.0	177.8	158.6	138.0	BLAINE CITY OF 8
451005	931955	100	11	5.7	1.0	.6	1.6	2.8	1.8	2.1	.2	1.0	1.0	COON RAPIDS 3
451006	931707	85	11	33.2	9.7	7.0	5.1	2.5	4.8	13.5	8.5	2.4	1.0	COON RAPIDS CITY OF 2

Table 9.—Annual ground-water use for public supply—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY—Continued														
451006	931707	15	11	5.9	1.7	1.2	.9	.4	.8	2.4	1.5	.4	.1	COON RAPIDS CITY OF 2
451029	931623	85	11	0	108.8	155.4	81.0	127.4	71.2	145.4	28.4	94.0	63.8	COON RAPIDS 10
451029	931623	15	11	0	19.2	27.4	14.3	22.5	12.6	25.7	5.0	16.6	11.3	COON RAPIDS 10
451031	931626	85	11	235.0	94.0	82.1	133.1	64.4	176.5	292.0	51.2	127.5	80.7	COON RAPIDS CITY OF 8
451031	931626	15	11	41.5	16.6	14.5	23.5	11.4	31.1	51.5	9.0	22.5	14.3	COON RAPIDS CITY OF 8
451032	931626	100	11	181.9	157.0	190.1	265.2	300.7	263.0	136.9	175.5	149.2	62.0	COON RAPIDS CITY OF 9
451035	931704	100	11	14.0	9.2	6.0	4.1	3.1	3.6	1.0	1.0	1.0	1.0	COON RAPIDS 1
451046	930743	100	11	11.7	11.9	10.0	15.8	8.5	9.0	8.5	7.6	8.2	9.6	MINN YOUTH CENTER 1
451055	932150	100	11	13.6	4.6	5.8	2.7	1.3	3.0	2.5	2.7	.1	1.0	COON RAPIDS 6
451057	931511	100	11	.2	100.8	141.1	107.1	88.7	85.3	142.0	129.2	99.6	94.7	BLAINE CITY OF 7
451059	932014	85	11	35.0	157.1	60.5	198.8	173.5	59.6	45.8	37.7	38.7	40.8	COON RAPIDS 4
451059	932014	15	11	6.2	27.7	10.7	35.1	30.6	10.5	8.1	6.6	6.8	7.2	COON RAPIDS 4
451106	931521	85	11	39.2	50.2	72.0	42.0	34.4	33.4	86.7	35.8	37.0	50.8	BLAINE CITY OF 5
451106	931521	15	11	6.9	8.9	12.7	7.4	6.1	5.9	15.3	6.3	6.5	9.0	BLAINE CITY OF 5
451132	931425	100	11	0	0	0	47.8	38.1	45.9	220.0	70.0	30.3	58.2	BLAINE CITY OF 9
451135	932300	95	11	142.5	190.0	190.0	190.0	190.0	190.0	181.4	133.9	132.2	87.5	ANOKA 3
451135	932300	5	11	7.5	10.0	10.0	10.0	10.0	10.0	9.5	7.0	7.0	4.6	ANOKA 3
451216	932429	100	11	50.0	50.0	50.0	50.0	50.0	50.0	46.8	13.2	19.9	14.0	ANOKA 4
451217	932432	100	11	250.0	400.0	400.0	400.0	425.2	390.4	415.4	382.8	375.7	367.0	ANOKA 5
451217	932432	85	11	0	0	0	0	0	0	0	268.4	271.8	271.8	ANOKA 3
451217	932432	15	11	0	0	0	0	0	0	0	47.4	48.0	48.0	ANOKA 6
451236	932322	100	11	50.0	40.0	40.0	40.0	40.0	40.0	15.7	1.4	0	0	ANOKA 2
451236	932323	100	11	50.0	40.0	40.0	40.0	47.7	13.0	13.7	1.4	1.0	1.0	ANOKA 1
452332	932156	100	11	0	0	0	0	0	30.0	35.0	35.0	35.0	35.0	ST FRANCIS 1
ANOKA COUNTY TOTALS				3526.1	3728.5	3786.0	4135.9	4285.9	4429.6	5350.8	4728.4	4867.1	4689.5	

Table 9.—Annual ground-water use for public supply—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
CARVER COUNTY													
444356	935802	85 11	9.3	8.5	7.9	8.8	8.7	9.0	12.3	9.9	10.7	10.6	HAMBURG 1
444356	935802	15 11	1.6	1.5	1.4	1.5	1.5	1.6	2.2	1.7	1.9	1.9	HAMBURG 1
444358	935806	100 11	0	0	0	0	0	0	0	0	0	0	HAMBURG 0
444552	935544	5 11	.9	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	NORWOOD 1
444552	935544	95 11	17.1	22.8	22.8	22.8	22.8	22.8	23.8	23.8	23.8	23.8	NORWOOD 1
444555	935539	100 11	19.3	23.0	24.7	26.8	21.6	24.0	25.0	25.0	25.0	14.1	NORWOOD 2
444607	934650	85 11	7.9	7.5	10.2	13.8	16.0	11.9	17.0	17.0	17.0	14.4	COLOGNE 2
444607	934650	15 11	1.4	1.3	1.8	2.4	2.8	2.1	3.0	3.0	3.0	2.5	COLOGNE 2
444607	935542	100 11	47.5	42.0	39.9	41.9	42.3	42.6	42.7	42.4	46.8	35.8	OAK GROVE DAIRY 1
444614	934656	100 11	.9	.3	.3	.3	.3	.3	.3	.3	.3	.3	COLOGNE 1
444656	935446	85 11	15.9	17.0	17.0	17.0	17.0	17.0	26.2	26.2	26.1	27.1	YOUNG AMERICA 1
444656	935446	15 11	2.8	3.0	3.0	3.0	3.0	3.0	4.6	4.6	4.6	4.8	YOUNG AMERICA 1
444723	933557	100 11	0	0	0	0	0	0	0	0	0	0	CHASKA 1
444723	933557	85 11	0	0	0	0	0	0	0	0	0	0	CHASKA 00
444723	933557	15 11	0	0	0	0	0	0	0	0	0	0	CHASKA 00
444723	933557	15 11	3.3	2.9	5.8	5.8	4.5	3.7	0	0	0	0	CHASKA 2
444723	933557	85 11	18.7	16.7	32.7	32.7	25.5	20.7	0	0	0	0	CHASKA 2
444723	933557	100 11	0	0	0	0	0	0	0	0	0	0	CHASKA 0
444809	933450	100 11	83.5	102.5	112.4	147.3	50.6	37.7	42.8	9.1	24.5	26.0	CHASKA 3
444824	933656	85 11	0	0	0	0	0	0	55.0	177.2	117.8	64.7	CHASKA 5
444824	933656	15 11	0	0	0	0	0	0	9.7	31.3	20.8	11.4	CHASKA 5
444833	933640	85 11	0	0	0	135.2	122.7	147.9	148.7	34.0	77.2	86.7	CHASKA 4
444833	933640	15 11	0	0	0	23.9	21.7	26.1	26.2	6.0	13.6	15.3	CHASKA 4
445100	934704	100 11	25.0	18.0	18.0	18.0	18.0	18.0	20.0	20.0	20.0	20.0	WACONIA 2
445100	934712	50 11	0	0	0	0	0	0	0	0	0	0	WACONIA 1
445100	934712	50 11	0	0	0	0	0	0	0	0	0	0	WACONIA 1
445100	934712	100 11	0	0	0	0	0	0	0	0	0	0	WACONIA 1
445100	934712	100 11	75.0	55.0	55.0	55.0	55.0	55.0	60.0	60.0	60.0	60.0	WACONIA 1

Table 9.—Annual ground-water use for public supply—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
CARVER COUNTY—Continued													
445102	934721	100 11	0	0	35.0	31.9	38.8	35.0	40.0	40.0	40.0	40.0	WACONIA 4
445102	934721	100 11	0	0	35.0	35.0	35.0	35.0	40.0	40.0	40.0	40.0	WACONIA 3
445151	933135	100 11	0	0	0	0	43.0	66.8	87.3	72.2	100.3	87.0	CHANHASSEN 3
445151	933436	100 11	30.1	35.7	46.1	25.0	13.1	27.7	53.0	55.3	49.1	53.0	CHANHASSEN 2
445153	933200	100 11	2.9	.4	.1	.1	.1	.1	.1	.1	.1	.1	CHANHASSEN 1
445256	933830	45 11	0	0	0	0	0	0	.1	.9	1.2	1.1	VICTORIA 1
445256	933830	55 11	0	0	0	0	0	0	.2	.9	1.3	1.2	VICTORIA 1
445305	935802	100 11	6.5	6.9	7.6	7.0	6.0	5.8	8.9	6.1	7.1	7.3	NEW GERMANY 1
445309	933457	100 11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	CHANHASSEN 4
445310	934431	85 11	3.4	7.5	4.2	6.7	7.3	8.2	10.8	6.6	7.7	8.5	ST PAUL BIBLE COLLEG 1
445310	934431	15 11	.6	1.3	.7	1.2	1.3	1.5	1.9	1.2	1.4	1.5	ST PAUL BIBLE COLLEG 1
445312	935320	100 11	8.7	11.6	11.7	14.4	12.0	14.0	16.4	11.9	11.8	13.0	MAYER 1
445740	935032	100 11	14.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.7	WATERTOWN 3
445755	935100	100 11	14.0	20.0	20.0	20.0	20.0	20.0	30.0	30.0	30.0	20.7	WATERTOWN 1
445755	935100	100 11	14.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.7	WATERTOWN 2
CARVER COUNTY TOTALS			434.3	456.6	564.5	748.7	661.8	708.7	859.5	808.0	834.4	745.5	

DAKOTA COUNTY

443607	925610	100 11	1.1	1.4	2.0	2.0	2.3	2.0	3.1	2.6	3.0	1.8	NEW TRIER 1
443607	925610	100 11	0	0	0	0	0	0	0	0	0	0	NEW TRIER 0
443639	925949	35 11	0	0	0	0	0	0	0	0	0	0	HAMPTON 01
443639	925949	65 11	0	0	0	0	0	0	0	0	0	0	HAMPTON 01
443639	925949	65 11	0	0	0	0	0	0	0	0	0	0	HAMPTON 1
443639	925949	35 11	0	0	0	0	0	0	0	0	0	0	HAMPTON 1
443639	925949	100 11	8.4	8.1	9.0	8.8	9.3	9.0	10.0	10.0	10.0	10.0	HAMPTON 2
443806	930859	100 11	63.2	70.2	74.7	79.5	86.9	42.9	44.7	7.8	10.1	5.0	FARMINGTON 3

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.	
DAKOTA COUNTY—Continued														
443824	931329	100 11	20.6	43.8	79.2	92.2	113.2	109.1	130.1	.1	125.9	105.5	LAKEVILLE	3
443825	930845	100 11	.5	.6	.6	1.0	1.0	1.0	.2	.2	1.0	.4	FARMINGTON	2
443825	930845	100 11	51.0	67.0	67.0	67.0	67.0	67.0	70.0	50.0	10.0	.1	FARMINGTON	1
443855	931437	100 11	5.0	0	0	0	0	0	0	0	0	0	LAKEVILLE	1
443907	930833	100 11	0	0	0	0	5.9	6.3	16.2	12.0	14.7	19.4	EMPIRE	1
444051	931047	100 11	0	0	0	0	30.6	124.9	261.5	216.3	216.5	209.7	FARMINGTON	4
444223	931251	100 11	37.2	19.1	7.5	36.0	11.0	7.3	33.5	40.1	60.9	20.1	LAKEVILLE	2
444227	931252	100 11	39.0	66.9	102.2	86.9	123.8	134.7	185.5	.2	194.5	258.1	LAKEVILLE	4
444306	925042	100 11	0	0	0	39.8	180.1	222.9	223.8	222.0	207.5	200.7	HASTINGS	6
444328	925247	100 11	128.5	130.0	131.8	143.5	128.7	106.9	129.4	126.7	124.8	110.2	HASTINGS	4
444330	931700	100 11	9.3	4.9	7.8	11.0	13.8	11.9	19.4	2.0	2.0	2.0	BURNSVILLE	11
444356	930808	100 11	0	0	0	0	0	0	0	57.1	51.1	33.1	ROSEMOUNT	7
444400	931438	100 11	103.4	75.8	81.5	110.9	64.3	125.5	177.5	147.4	92.1	97.6	APPLE VALLEY	2
444403	930820	100 11	9.0	0	0	0	0	0	0	0	0	0	ROSEMOUNT	4
444403	930820	100 11	2.0	0	0	0	0	0	0	0	0	0	ROSEMOUNT	5
444407	931416	100 11	111.5	128.6	138.3	58.0	114.0	69.6	91.0	47.3	21.5	34.0	APPLE VALLEY	1
444411	930856	100 11	12.9	16.6	47.5	25.1	37.4	31.0	35.0	36.6	29.7	40.9	ROSEMOUNT	6
444415	930730	100 11	32.0	33.5	29.5	51.1	47.3	45.0	40.0	34.6	45.7	40.3	ROSEMOUNT	3
444418	930733	35 11	4.8	4.4	1.1	3.8	3.2	3.2	0	0	0	0	ROSEMOUNT	1
444418	930733	65 11	9.0	8.2	2.1	7.0	5.9	5.9	0	0	0	0	ROSEMOUNT	1
444418	930733	100 11	11.9	12.7	4.7	8.2	8.9	9.0	0	0	0	0	ROSEMOUNT	2
444420	925246	100 11	0	19.6	19.4	18.5	14.3	11.5	31.7	10.1	9.6	2.9	HASTINGS	5
444424	925213	100 11	264.0	269.8	299.4	290.1	232.9	220.9	243.2	252.4	216.6	202.4	HASTINGS	3
444428	925115	100 11	43.9	39.2	50.4	49.6	24.8	15.4	11.0	20.5	11.0	.7	HASTINGS	1
444428	925115	100 11	12.0	5.5	7.3	11.5	4.9	4.2	14.4	1.9	10.7	5.5	HASTINGS	2
444442	931134	100 11	0	0	0	0	0	0	0	0	52.0	76.2	APPLE VALLEY	7
444442	931139	100 11	0	0	0	0	0	0	0	80.5	126.8	119.5	APPLE VALLEY	6
444442	931148	100 11	0	0	0	0	0	83.0	97.0	77.2	117.4	109.8	APPLE VALLEY	5

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
444446	931143	100 11	0	0	23.5	163.2	151.9	182.3	251.0	256.9	189.0	208.5	APPLE VALLEY 4
444541	931645	100 11	8.7	12.0	12.0	12.0	16.4	0	0	0	0	0	BURNSVILLE 02
444557	931335	100 11	54.7	101.5	99.4	89.1	153.7	44.5	60.1	23.3	118.0	133.5	APPLE VALLEY 3
444645	931658	100 11	0	0	0	99.6	198.5	153.9	135.0	135.0	135.0	135.0	BURNSVILLE 7
444645	931708	100 11	71.9	173.8	161.1	131.7	107.9	184.7	174.2	200.5	180.0	180.0	BURNSVILLE 4
444645	931708	100 11	0	165.2	142.8	139.5	152.3	123.3	144.4	104.5	125.0	125.0	BURNSVILLE 5
444647	931649	100 11	0	0	109.0	136.9	89.5	128.9	50.0	50.0	50.0	50.0	BURNSVILLE 8
444654	931650	100 11	53.0	42.2	20.4	13.2	61.8	77.4	323.5	200.0	200.0	200.0	BURNSVILLE 1
444657	931644	100 11	155.7	45.8	13.6	25.4	30.0	52.8	62.9	225.0	225.0	225.0	BURNSVILLE 2
444700	931745	100 11	0	24.2	31.1	16.6	24.0	0	0	0	0	0	BURNSVILLE 04
444713	931628	100 11	0	189.0	225.2	189.1	140.1	202.7	177.7	180.0	180.0	180.0	BURNSVILLE 6
444724	931602	85 11	0	0	0	0	0	0	0	16.7	17.0	17.0	BURNSVILLE 9
444724	931602	15 11	0	0	0	0	0	0	0	2.9	3.0	3.0	BURNSVILLE 9
444724	931602	100 11	0	0	0	0	0	0	15.0	15.0	15.0	15.0	BURNSVILLE 10
444727	931554	100 11	254.3	133.6	155.6	237.6	188.4	141.5	150.8	142.9	150.0	150.0	BURNSVILLE 3
444812	931417	100 11	60.7	37.1	.2	0	0	0	0	0	0	0	BURNSVILLE 03
444824	931248	100 11	145.8	45.8	0	0	9.9	8.2	18.0	17.1	19.0	2.0	EAGAN 02
444825	931250	100 11	24.8	45.0	0	0	16.7	9.2	11.0	7.1	15.3	1.7	EAGAN 01
444954	931042	100 11	0	0	270.6	155.3	151.0	119.2	114.0	132.0	25.3	183.8	EAGAN 2
444957	930718	100 11	.8	9.0	1.8	4.2	3.6	5.1	1.0	.3	.3	.3	EAGAN 03
445000	931042	100 11	169.3	200.0	250.0	300.0	400.0	332.5	265.0	245.7	284.8	184.3	EAGAN 1
445000	931049	100 11	0	0	0	2.8	8.4	181.8	195.7	88.6	59.8	53.3	EAGAN 3
445003	930223	100 11	87.3	90.0	108.2	105.2	130.9	120.3	129.9	61.3	73.1	49.0	INVER GROVE HTS 2
445003	931051	100 11	0	0	0	0	0	0	0	252.4	392.2	222.5	EAGAN 4
445037	930208	100 11	71.0	85.6	97.3	107.9	79.4	105.4	119.4	111.6	85.0	100.3	INVER GROVE HTS 1
445052	930241	100 11	0	10.0	10.0	10.0	5.1	10.1	105.6	49.7	124.9	75.0	INVER GROVE HTS 3
445052	930241	100 11	0	120.0	120.0	120.0	121.5	128.2	119.5	191.4	143.3	170.0	INVER GROVE HTS 4
445153	930226	100 11	0	0	0	0	0	172.0	46.8	55.0	53.1	21.6	SOUTH ST PAUL 9

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
445208	930717	100	11	49.8	69.0	62.6	58.8	60.8	37.6	37.9	18.6	28.0	28.0	MENDOTA HTS 1
445230	930155	100	11	245.7	196.8	355.3	317.7	300.9	190.9	170.6	45.0	43.6	90.2	SOUTH ST PAUL 4
445245	930732	35	11	0	0	0	0	0	0	0	0	0	0	MENDOTA HEIGHTS 2
445245	930732	65	11	0	0	0	0	0	0	0	0	0	0	MENDOTA HEIGHTS 2
445254	930238	5	11	0	0	0	0	0	0	0	0	0	0	SOUTH ST PAUL 01
445254	930238	25	11	0	0	0	0	0	0	0	0	0	0	SOUTH ST PAUL 01
445254	930238	70	11	0	0	0	0	0	0	0	0	0	0	SOUTH ST PAUL 01
445254	930238	100	11	161.9	151.8	54.6	163.5	151.4	190.9	106.2	165.0	164.7	109.3	SOUTH ST PAUL 1
445255	930132	100	11	0	0	60.0	63.2	285.6	165.3	102.4	140.0	139.9	131.2	SOUTH ST PAUL 7
445316	930334	100	11	0	0	0	0	0	189.2	185.7	170.0	167.7	238.2	SOUTH ST PAUL 8
445347	930228	100	11	509.6	514.0	416.5	152.1	229.2	118.0	310.1	284.0	284.1	173.7	SOUTH ST PAUL 3
445400	930719	100	11	0	0	0	0	0	0	0	0	0	0	MENDOTA HEIGHTS 3
445406	930328	100	11	0	0	0	128.8	168.8	174.2	115.0	170.0	168.3	122.4	SOUTH ST PAUL 6
445425	930249	70	11	45.7	59.0	101.9	0	0	0	0	0	0	0	SOUTH ST PAUL 02
445425	930249	5	11	3.3	4.2	7.3	0	0	0	0	0	0	0	SOUTH ST PAUL 02
445425	930249	25	11	16.3	21.1	36.4	0	0	0	0	0	0	0	SOUTH ST PAUL 02
445442	930326	100	11	0	0	0	168.7	140.0	128.5	101.9	30.0	27.4	46.9	SOUTH ST PAUL 2
DAKOTA COUNTY TOTALS				3170.5	3571.6	4109.4	4313.6	4909.2	5148.7	5668.5	5243.1	5651.9	5331.6	

HENNEPIN COUNTY

444548	933731	100	11	19.5	25.1	24.7	34.4	40.9	26.8	29.0	23.5	23.6	11.0	LORETO 2
444548	933731	100	11	3.0	4.0	3.2	3.3	3.3	3.3	3.3	3.3	0	11.0	LORETO 1
444749	932106	100	11	18.4	16.7	17.1	22.4	27.5	34.7	26.8	27.8	18.5	17.3	MINNESOTA MASONIC HO 1
444939	932035	100	11	0	0	0	0	0	0	0	0	0	0	BLOOMINGTON 4

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445006	932057	100 11	0	0	0	0	488.0	745.2	850.0	850.0	956.4	952.6	BLOOMINGTON 2
445009	932053	100 11	0	0	0	0	549.5	806.0	805.5	659.5	672.3	338.1	BLOOMINGTON 1
445012	932036	15 11	0	0	0	0	0	0	0	0	3.2	68.2	BLOOMINGTON 3
445012	932036	85 11	0	0	0	0	0	0	17.9	17.9	18.0	386.2	BLOOMINGTON 3
445135	932729	100 11	0	0	80.0	80.0	80.0	80.0	180.0	180.0	180.0	221.8	EDEN PRAIRIE 2
445142	932726	100 11	0	80.0	80.0	80.0	80.0	80.0	180.0	180.0	180.0	177.3	EDEN PRAIRIE 1
445153	932021	100 11	250.0	165.1	220.3	326.5	277.0	393.9	397.3	469.4	465.2	444.0	EDINA 11
445153	932021	100 11	263.2	306.7	275.3	208.1	371.7	204.3	256.5	194.3	248.4	233.0	EDINA 10
445159	932252	100 11	35.6	11.0	11.6	46.4	30.6	20.8	46.4	4.8	16.9	23.0	EDINA 14
445204	931915	100 11	0	0	0	0	21.2	32.7	49.8	18.2	18.3	29.0	EDINA 18
445246	931914	100 11	57.8	60.5	39.7	43.8	61.8	29.5	86.8	36.0	28.1	22.0	EDINA 5
445301	932137	100 11	36.1	66.6	12.8	37.6	51.4	26.3	64.2	16.0	26.7	6.8	EDINA 8
445303	931600	100 11	304.9	283.5	287.7	296.6	284.3	293.0	300.0	343.6	185.1	300.0	RICHFIELD 6
445303	931600	100 11	309.9	283.5	287.7	296.6	284.3	313.1	300.0	300.0	300.0	300.0	RICHFIELD 5
445319	932315	100 11	74.8	84.0	159.6	249.4	7.4	183.7	306.4	207.1	235.2	250.0	EDINA 16
445324	931637	100 11	161.4	159.1	171.6	192.7	186.3	146.9	229.4	177.5	175.0	175.0	RICHFIELD 1
445324	931637	100 11	161.4	159.1	171.6	192.7	186.3	146.9	175.0	175.0	175.0	175.0	RICHFIELD 2
445325	931559	85 11	0	0	0	0	0	0	0	0	191.3	191.3	RICHFIELD 7
445325	931559	15 11	0	0	0	0	0	0	0	0	33.8	33.8	RICHFIELD 7
445325	931601	100 11	213.5	205.6	186.0	240.6	246.7	234.1	321.1	205.1	225.0	225.0	RICHFIELD 3
445325	931601	100 11	213.5	223.0	223.0	223.0	223.0	223.0	225.0	225.0	225.0	225.0	RICHFIELD 4
445345	932048	100 11	264.7	362.2	267.6	229.0	261.3	140.1	210.5	257.0	250.4	323.0	EDINA 6
445347	932010	100 11	0	8.8	15.2	53.4	51.1	35.4	118.1	22.3	39.1	60.0	EDINA 17
445347	932139	100 11	26.9	18.7	8.2	10.7	45.6	28.0	74.0	70.2	56.9	50.1	EDINA 9
445353	932605	100 11	0	0	0	200.0	250.0	300.0	350.0	315.0	350.0	300.0	MINNETONKA 13
445353	932605	100 11	0	0	0	0	0	0	0	0	0	0	MINNETONKA 13
445356	932038	100 11	61.4	49.9	28.7	45.1	63.0	148.8	167.7	41.5	39.2	30.5	EDINA 4
445409	933428	100 11	56.4	58.6	60.2	59.8	13.0	8.7	35.5	50.5	68.0	44.1	EXCELSIOR 2

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
445409	933429	100	11	56.4	58.6	60.2	59.8	13.0	8.7	35.5	50.5	68.0	44.1	EXCELSIOR 1
445409	933429	100	11	0	0	0	0	92.2	88.8	60.4	33.7	50.0	51.8	EXCELSIOR 3
445415	934457	100	11	0	0	0	7.8	7.4	7.0	10.0	10.0	10.0	10.0	ST BONIFACIUS 2
445415	934457	15	11	1.5	1.5	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.5	ST BONIFACIUS 1
445415	934457	85	11	8.5	8.5	8.5	6.6	8.5	8.5	8.5	8.5	8.5	8.5	ST BONIFACIUS 1
445418	932912	100	11	54.3	60.4	25.6	6.5	0	0	0	0	0	0	MINNETONKA 5
445424	932118	100	11	53.4	28.7	18.3	33.1	33.5	26.7	72.6	20.4	35.4	14.3	EDINA 7
445424	932903	100	11	68.4	60.3	10.0	0	0	0	0	0	0	0	MINNETONKA 4
445430	931954	100	11	31.0	20.8	10.3	20.5	19.6	16.0	39.1	16.0	11.8	6.6	EDINA 3
445432	933002	100	11	0	0	0	0	0	0	0	0	0	0	MINNETONKA 15
445435	933001	100	11	0	0	0	0	0	0	100.0	150.0	150.0	300.0	MINNETONKA 15
445442	932026	5	11	20.1	21.0	21.0	21.0	21.0	21.0	21.3	22.2	22.3	20.2	EDINA 2
445442	932026	95	11	371.3	379.1	369.4	431.8	435.2	376.8	405.2	421.2	423.2	383.4	EDINA 2
445442	932026	100	11	0	0	0	0	0	0	0	0	0	0	EDINA 1
445445	932742	100	11	0	7.9	135.2	226.7	224.8	237.5	350.0	300.0	300.0	300.0	MINNETONKA 11
445447	932210	100	11	56.6	107.2	47.3	105.8	140.2	101.8	169.4	96.1	59.4	108.0	EDINA 15
445451	933538	100	11	0	0	0	15.0	15.0	15.0	25.0	25.0	25.0	31.1	TONKA BAY 1
445451	933538	100	11	0	0	0	0	15.0	15.0	25.0	25.0	25.0	31.1	TONKA BAY 2
445511	932724	100	11	51.3	49.1	10.3	16.3	9.5	0	0	0	0	0	MINNETONKA 2
445512	932340	100	11	42.1	257.4	162.9	90.2	172.3	253.6	385.6	204.8	17.6	203.0	EDINA 13
445512	932340	100	11	309.1	270.7	157.9	272.3	208.4	22.8	57.6	180.0	369.8	202.0	EDINA 12
445513	932136	100	11	215.7	171.7	129.3	137.3	74.0	63.8	102.4	55.5	22.2	18.5	ST LOUIS PARK 14
445514	932443	5	11	10.8	12.0	12.7	10.0	11.3	9.2	2.5	2.5	2.5	2.5	HOPKINS 1
445514	932443	95	11	204.9	228.2	240.8	189.3	214.7	175.2	47.5	47.5	47.5	47.5	HOPKINS 1
445516	932715	100	11	3.0	0	0	0	0	0	0	0	0	0	MINNETONKA 1
445517	932112	100	11	324.5	240.7	288.0	131.3	200.6	178.7	108.4	117.8	129.8	73.7	ST LOUIS PARK 12
445519	932111	100	11	190.0	230.0	230.0	230.0	230.0	228.8	349.6	354.5	467.6	451.3	ST LOUIS PARK 6
445529	932434	95	11	0	0	0	0	0	0	0	0	0	0	HOPKINS 2

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
445529	932434	5	11	0	0	0	0	0	0	0	0	0	0	HOPKINS 2
445531	932652	100	11	0	0	0	1.8	11.2	48.0	50.0	60.0	70.0	30.0	MINNETONKA 14
445538	932601	100	11	5.0	1.0	1.0	1.0	1.0	1.0	0	0	0	0	MINNETONKA 8
445547	932309	100	11	146.8	139.1	109.7	113.4	120.0	184.4	200.0	133.2	200.0	200.0	HOPKINS 3
445548	932022	100	11	70.0	30.0	30.0	30.0	30.0	28.6	91.7	49.2	120.9	116.3	ST LOUIS PARK 4
445548	932655	100	11	0	0	0	0	0	0	0	0	0	0	MINNETONKA 14
445558	934009	100	11	0	0	0	0	0	0	0	0	0	0	MOUND 2
445602	932450	100	11	205.3	196.1	211.2	261.5	211.1	184.4	200.0	200.0	169.2	200.0	HOPKINS 5
445604	933930	100	11	0	0	0	0	0	0	0	275.6	398.1	270.1	MOUND 6
445606	933927	100	11	5.0	10.0	10.0	0	0	0	105.8	81.8	9.0	40.0	MOUND 5
445607	932440	100	11	0	0	0	0	0	0	0	0	169.2	200.0	HOPKINS 6
445607	933647	100	11	0	0	10.0	10.0	10.0	10.0	30.0	30.0	30.0	30.0	ORONO 2
445608	932504	100	11	205.3	196.1	211.2	261.5	230.0	184.4	200.0	200.0	200.0	200.0	HOPKINS 4
445608	933654	100	11	0	0	16.4	32.7	38.0	42.1	56.2	53.0	55.8	54.6	ORONO 1
445608	933913	100	11	149.7	114.7	274.3	225.0	285.7	263.0	226.9	188.5	96.8	148.4	MOUND 3
445610	932123	100	11	0	0	0	0	0	0	0	0	0	0	ST LOUIS PARK 0
445610	933804	100	11	15.5	21.0	21.0	21.0	21.0	21.0	38.0	38.0	38.0	11.0	SPRING PARK 1
445610	933804	100	11	15.5	17.6	22.0	22.4	23.6	27.8	38.0	32.9	38.0	38.0	SPRING PARK 2
445611	933956	100	11	141.3	179.4	205.5	200.7	222.8	225.0	212.4	113.1	11.6	11.6	MOUND 1
445623	933501	100	11	10.0	15.0	15.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0	MINNETONKA BEACH 2
445630	933456	100	11	10.0	15.0	15.0	15.0	15.0	15.0	20.0	20.0	20.0	20.0	MINNETONKA BEACH 1
445631	932304	100	11	150.0	50.0	50.0	50.0	50.0	43.7	151.5	14.1	38.7	20.7	ST LOUIS PARK 5
445634	932745	100	11	8.3	7.3	7.8	13.3	24.3	2.4	10.0	10.0	10.0	10.0	MINNETONKA 10
445648	933951	100	11	74.9	97.5	4.2	133.9	139.2	227.8	202.2	127.6	.4	75.0	MOUND 4
445659	932202	100	11	0	0	0	0	0	0	0	0	0	0	ST LOUIS PARK 1
445659	932202	100	11	0	0	0	0	0	0	0	0	0	0	ST LOUIS PARK 2
445700	932213	100	11	180.0	120.0	120.0	120.0	120.0	30.3	86.2	14.7	49.3	0	ST LOUIS PARK 10
445701	932158	100	11	40.0	30.0	30.0	30.0	30.0	28.7	125.9	46.1	84.6	88.3	ST LOUIS PARK 3

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445702	932202	100 11	32.8	257.6	282.5	311.6	318.7	306.5	315.8	266.6	189.3	331.8	ST LOUIS PARK 11
445703	932202	100 11	20.0	233.0	258.6	265.7	237.4	254.5	232.6	179.7	118.0	10.4	ST LOUIS PARK 15
445703	932454	100 11	14.7	28.6	34.5	45.0	59.0	58.3	100.0	105.8	125.0	150.0	MINNETONKA 6
445703	932454	100 11	14.7	28.6	34.5	45.0	59.0	58.3	100.0	105.8	125.0	150.0	MINNETONKA 7
445728	934036	100 11	5.0	4.0	6.4	4.5	4.0	2.2	4.0	4.6	4.0	4.0	MINNETRISTA 2
445728	934036	95 11	0	0	0	1.8	6.8	7.6	8.0	8.4	8.0	8.0	MINNETRISTA 1
445728	934036	5 11	0	0	0	0	.3	.3	.4	.4	.4	.4	MINNETRISTA 1
445729	932218	100 11	80.0	15.0	15.0	15.0	15.0	15.0	21.8	1.9	18.3	0	ST LOUIS PARK 7
445730	932222	100 11	100.0	60.0	60.0	60.0	60.0	15.5	21.8	1.9	14.6	0	ST LOUIS PARK 9
445747	932727	100 11	7.3	3.8	2.0	2.5	3.0	2.1	2.6	0	0	0	MINNETONKA 9
445750	932348	100 11	0	0	0	0	7.0	486.7	442.3	485.9	422.5	388.6	ST LOUIS PARK 16
445754	932122	100 11	394.9	170.9	186.6	457.0	355.2	294.6	101.8	49.2	63.2	92.2	ST LOUIS PARK 13
445807	932410	100 11	250.0	250.0	250.0	250.0	250.0	134.7	379.0	418.1	341.9	378.9	ST LOUIS PARK 8
445808	932650	100 11	0	0	.5	1.0	6.6	11.5	10.0	10.0	10.0	10.0	MINNETONKA 12
445827	933048	100 11	0	0	75.0	75.0	71.7	68.0	78.6	75.0	79.7	70.8	WAYZATA 4
445830	933048	100 11	60.0	75.0	75.0	75.0	71.7	75.0	79.0	79.0	79.0	70.8	WAYZATA 3
445831	933047	100 11	74.0	0	0	0	0	0	0	0	0	0	WAYZATA 1
445832	933048	100 11	70.0	75.0	75.0	75.0	71.7	75.0	79.0	79.0	79.0	70.8	WAYZATA 2
445905	933323	100 11	19.2	8.4	2.6	16.8	15.9	18.4	12.0	19.6	18.6	23.3	LONG LAKE 2
445906	932925	100 11	5.0	0	0	0	0	0	0	0	0	0	PLYMOUTH 0
445906	933424	100 11	42.4	51.9	66.0	55.7	45.9	46.3	68.7	52.1	59.6	51.7	LONG LAKE 1
445933	933053	100 11	5.0	0	0	0	0	0	0	0	0	0	PLYMOUTH 0
445949	932937	100 11	19.9	35.7	22.6	33.3	25.8	8.2	30.0	30.0	20.0	20.0	MINNETONKA 3
445951	932657	100 11	35.0	108.0	108.0	108.8	108.8	125.0	8.1	2.2	3.5	.6	PLYMOUTH 1
450012	933518	100 11	0	0	0	0	0	0	0	0	0	0	MEDINA 0
450015	932800	100 11	0	0	0	0	0	0	147.2	196.7	34.8	159.9	PLYMOUTH 4
450025	932801	100 11	0	0	0	57.0	477.5	345.7	450.0	450.0	450.0	539.7	PLYMOUTH 3
450026	932811	100 11	0	194.0	194.0	327.4	36.6	218.9	378.9	367.0	606.9	511.3	PLYMOUTH 2

Table 9.—Annual ground-water use for public supply—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
450031	933918	100	11	20.0	30.0	30.0	30.0	30.0	30.0	2.0	68.8	.1	.6	MAPLE PLAIN 1
450032	933924	100	11	20.0	30.0	30.0	30.0	30.0	30.0	70.0	1.2	69.3	69.2	MAPLE PLAIN 2
450047	931939	100	11	98.0	134.5	101.2	106.9	139.7	138.9	172.2	135.0	155.3	120.0	ROBBINSDALE 5
450054	931917	100	11	85.9	128.6	95.9	112.9	143.9	120.0	130.0	135.0	130.0	130.0	ROBBINSDALE 3
450057	933427	100	11	0	0	0	0	0	0	17.2	18.1	13.7	21.9	MEDINA 2
450121	932409	100	11	40.0	0	0	0	0	0	0	0	0	0	PLYMOUTH 0
450127	932042	100	11	170.0	102.8	68.3	139.7	99.8	103.0	76.0	135.0	76.0	76.0	ROBBINSDALE 4
450143	931259	100	11	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ST. ANTHONY 2
450143	931259	100	11	0	0	0	0	0	0	0	0	0	0	ST. ANTHONY 1
450143	931259	100	11	243.2	150.0	168.8	243.4	202.0	279.5	224.7	169.8	190.4	180.0	ST. ANTHONY 3
450144	931256	100	11	362.2	220.0	185.6	142.4	211.4	229.6	230.0	230.4	211.3	210.0	ST. ANTHONY 4
450147	932020	20	11	101.5	51.5	58.6	44.2	50.7	20.5	132.1	75.9	.3	15.1	ROBBINSDALE 1
450147	932020	80	11	101.5	103.1	117.2	88.5	67.7	66.6	60.0	60.0	60.0	48.8	ROBBINSDALE 1
450150	932015	100	11	126.7	139.6	116.2	100.6	87.6	110.0	90.0	135.0	90.0	90.0	ROBBINSDALE 2
450221	932318	100	11	0	0	0	0	0	0	0	0	0	0	NEW HOPE 1
450235	931307	100	11	165.1	124.3	36.3	210.0	190.9	147.3	95.1	7.0	8.1	0	ST. ANTHONY 5
450241	933230	100	11	10.4	10.5	10.2	8.3	11.1	9.7	10.3	10.4	11.1	6.7	MEDINA 1
450405	931934	100	11	298.0	200.0	200.0	200.0	200.0	102.5	75.5	92.3	250.7	9.0	BROOKLYN CENTER 2
450406	931935	100	11	9.0	0	0	0	0	0	0	0	0	0	BROOKLYN CENTER 1
450433	932328	100	11	31.2	82.6	141.1	94.3	64.6	68.7	59.1	116.8	122.3	96.9	BROOKLYN PARK 6
450433	932328	100	11	15.0	0	136.3	139.2	128.8	122.8	51.0	56.3	71.3	125.0	BROOKLYN PARK 7
450445	931746	100	11	114.7	121.5	149.4	350.0	413.5	430.6	449.5	496.6	412.3	337.7	BROOKLYN CENTER 6
450450	931739	100	11	384.0	389.6	332.3	226.6	331.3	371.4	422.2	472.2	424.1	313.9	BROOKLYN CENTER 3
450453	931723	100	11	46.1	29.8	48.7	63.0	71.5	94.9	150.3	99.9	56.0	111.9	BROOKLYN CENTER 5
450453	931738	100	11	50.2	26.3	17.9	27.4	22.5	21.5	53.2	16.7	25.0	.3	BROOKLYN CENTER 4
450459	931724	100	11	0	50.0	69.7	112.5	111.4	142.4	273.6	80.9	42.7	273.1	BROOKLYN CENTER 7
450510	931725	100	11	0	0	0	0	0	0	0	0	250.7	135.6	BROOKLYN CENTER 8
450514	932202	15	11	42.3	39.4	8.5	9.2	24.3	20.6	12.4	29.0	11.2	26.3	BROOKLYN PARK 4

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
450514	932202	85	11	240.0	223.0	48.0	52.1	137.7	116.8	70.5	164.3	63.4	149.1	BROOKLYN PARK 4
450514	932529	15	11	0	0	0	2.3	4.0	.6	2.3	5.7	8.5	5.6	MAPLE GROVE 1
450514	932529	85	11	0	0	0	12.8	22.8	3.2	12.3	31.5	48.4	31.5	MAPLE GROVE 1
450523	932154	100	11	0	104.0	104.0	120.1	117.3	74.9	82.6	66.1	27.0	55.6	BROOKLYN PARK 5
450543	931829	100	11	42.7	15.4	13.2	99.1	58.8	139.8	190.3	116.2	147.4	122.5	BROOKLYN PARK 1
450550	932024	15	11	27.3	4.3	21.2	27.2	13.4	30.3	10.4	14.5	18.4	10.5	BROOKLYN PARK 2
450550	932024	85	11	154.8	24.4	120.3	154.0	75.8	171.7	58.7	82.4	104.5	59.7	BROOKLYN PARK 2
450552	932027	100	11	0	0	101.4	128.1	205.8	161.7	73.2	90.8	117.8	85.2	BROOKLYN PARK 3
450642	932330	100	11	0	0	0	0	0	0	340.6	199.8	245.1	222.6	BROOKLYN PARK 9
450643	932330	100	11	0	0	0	0	0	0	235.0	235.0	235.0	360.3	BROOKLYN PARK 8
450657	932407	100	11	0	0	0	0	0	0	0	0	0	0	OSSEO 00
450657	932407	100	11	45.0	50.0	50.0	50.0	50.0	50.0	55.0	55.0	55.0	55.0	OSSEO 1
450657	932407	100	11	45.0	50.0	50.0	50.0	50.0	50.0	60.0	60.0	60.0	60.0	OSSEO 2
450713	932519	100	11	0	0	0	0	130.0	130.9	261.1	246.1	307.0	271.0	MAPLE GROVE 2
450921	932350	85	11	0	0	0	0	0	0	0	0	8.5	.2	CHAMPLIN 3
450921	932350	15	11	0	0	0	0	0	0	0	0	1.5	0	CHAMPLIN 3
451013	932338	100	11	0	0	0	0	0	0	0	0	0	12.8	CHAMPLIN 2
451031	934449	100	11	25.0	20.0	20.0	20.0	20.0	20.0	15.4	18.4	25.4	30.8	ROCKFORD 1
451031	934449	100	11	0	0	20.0	20.0	20.0	20.0	15.4	18.1	25.4	30.8	ROCKFORD 2
451117	933306	100	11	9.0	14.0	14.0	14.0	14.0	14.0	20.0	20.0	20.0	20.0	ROGERS 2
451117	933306	100	11	9.0	14.0	14.0	14.0	14.0	14.0	20.0	20.0	20.0	22.8	ROGERS 1
451153	932506	85	11	0	0	0	0	0	0	22.1	22.1	22.1	38.3	CHAMPLIN 1
451153	932506	15	11	0	0	0	0	0	0	3.9	3.9	3.9	6.8	CHAMPLIN 1
HENNEPIN COUNTY TOTALS 10422.6 10369.0 10383.4 12269.7 13805.7 14411.9 17725.9 16023.1 16599.8 16810.5														

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY													
44546	925911	100 11	12.7	11.4	11.4	10.7	10.1	11.0	17.5	8.6	9.0	9.0	CITY COUNTY WORKHOUS 1
450015	925951	100 11	0	0	0	0	0	0	0	0	0	0	NORTH ST. PAUL 5
450039	925945	100 11	201.6	222.5	247.6	229.9	240.3	221.8	250.8	254.3	252.8	252.3	NORTH ST. PAUL 3
450104	925958	100 11	50.6	46.6	44.7	46.8	47.1	58.1	52.0	54.2	47.0	16.7	NORTH ST. PAUL 2
450107	925955	100 11	0	0	0	0	0	0	0	0	0	0	NORTH ST. PAUL 0
450107	925955	35 11	0	0	0	0	0	0	0	0	0	0	NORTH ST. PAUL 002
450107	925955	65 11	0	0	0	0	0	0	0	0	0	0	NORTH ST. PAUL 002
450107	925955	100 11	59.7	45.8	55.5	53.5	59.0	56.8	72.9	61.5	52.9	18.6	NORTH ST. PAUL 1
450128	930025	100 11	97.9	70.9	49.9	78.5	64.4	105.3	111.2	74.6	73.1	55.4	NORTH ST. PAUL 4
450230	930000	100 11	341.2	210.0	149.0	325.6	210.0	229.7	358.3	315.5	231.5	274.0	WHITE BEAR LAKE 6
450236	930020	100 11	90.0	266.0	266.0	308.9	221.6	266.0	244.0	284.8	202.5	244.0	WHITE BEAR LAKE 7
450238	930004	100 11	158.5	90.0	125.0	25.0	53.2	132.3	80.0	37.9	123.2	80.0	WHITE BEAR LAKE 5
450238	930004	100 11	287.7	168.0	168.0	168.0	168.0	145.9	69.0	37.2	99.9	69.0	WHITE BEAR LAKE 4
450238	930825	100 11	4.4	16.6	9.2	1.2	.2	0	0	0	0	0	SHOREVIEW 1
450248	930255	100 11	0	0	0	0	0	0	0	0	0	0	VADNAIS HTS 1
450255	930311	100 11	0	0	0	0	0	0	0	0	0	0	VADNAIS HTS 2
450301	931330	100 11	68.6	23.0	63.2	3.8	9.4	13.4	80.0	88.4	80.0	5.4	NEW BRIGHTON 7
450323	931331	100 11	32.1	16.0	29.1	1.0	4.1	30.8	24.8	8.6	22.9	1.0	NEW BRIGHTON 6
450324	931325	100 11	163.2	90.0	174.9	52.3	53.8	80.6	45.0	45.3	45.0	45.0	NEW BRIGHTON 5
450336	930022	100 11	10.0	0	0	0	0	0	0	0	0	0	WHITE BEAR LAKE 3
450337	931309	100 11	0	84.0	90.4	43.9	97.7	104.2	331.5	283.4	231.3	125.4	NEW BRIGHTON 8
450337	931311	100 11	0	0	150.0	350.0	350.0	445.6	392.9	355.6	309.8	195.8	NEW BRIGHTON 9
450341	931307	100 11	141.5	38.0	77.1	5.3	41.5	29.0	79.0	76.8	80.6	79.0	NEW BRIGHTON 4
450342	931125	100 11	4.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	NEW BRIGHTON 1
450342	931130	100 11	10.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0	NEW BRIGHTON 2
450345	931306	100 11	174.7	40.0	88.8	5.2	50.9	4.4	15.0	10.3	21.6	15.0	NEW BRIGHTON 3
450351	930518	100 11	0	0	0	30.0	30.0	30.0	40.0	40.0	40.0	40.0	VADNAIS HTS 3
450429	930636	100 10	9.0	7.6	8.7	7.5	7.4	7.1	10.0	3.1	8.0	8.0	CENTRAL WATER CO 1

Table 9.—Annual ground-water use for public supply—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued													
450434	930600	100 11	0	0	0	0	0	0	0	0	0	0	VADNAIS HTS
450449	930815	100 11	0	0	32.4	114.6	90.1	84.3	133.7	109.6	103.2	116.0	SHOREVIEW
450449	930815	100 11	78.8	90.3	83.7	68.5	86.5	59.2	108.4	133.8	188.3	143.0	SHOREVIEW
450449	930815	100 11	0	0	0	0	43.8	104.5	113.6	87.5	90.0	97.0	SHOREVIEW
450500	930033	65 11	0	0	0	0	0	0	0	0	0	0	WHITE BEAR LAKE
450500	930033	35 11	0	0	0	0	0	0	0	0	0	0	WHITE BEAR LAKE
450532	930003	100 11	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0	WHITE BEAR LAKE
450532	930003	100 11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0	0	WHITE BEAR LAKE
450546	931226	100 11	0	92.0	71.3	105.7	98.9	92.0	111.0	111.0	113.0	107.4	MOUNDSVIEW
450614	931217	15 11	20.9	13.0	8.2	11.5	8.6	7.4	12.9	15.7	10.1	14.6	MOUNDSVIEW
450614	931217	85 11	118.5	73.4	46.6	64.9	48.5	41.8	73.1	89.0	57.3	82.8	MOUNDSVIEW
450619	931312	100 11	0	75.0	79.2	72.7	73.2	75.0	84.0	81.3	87.9	93.5	MOUNDSVIEW
450620	931217	100 11	48.9	6.1	12.4	5.3	10.5	5.5	5.0	7.4	14.3	14.2	MOUNDSVIEW
450620	931217	100 11	0	93.0	69.1	82.5	128.5	93.0	93.0	89.0	101.0	78.1	MOUNDSVIEW
450642	931211	100 11	0	10.0	10.0	3.1	10.3	10.0	10.1	10.1	5.0	5.0	MOUNDSVIEW
RAMSEY COUNTY TOTALS			2199.5	1921.2	2243.4	2297.9	2339.6	2566.7	3029.7	2785.5	2702.2	2286.2	
SCOTT COUNTY													
443235	933419	100 11	13.2	12.0	13.0	13.0	13.0	35.0	75.0	75.0	75.0	75.0	NEW PRAGUE
443235	933419	100 11	32.9	37.6	38.0	38.0	38.0	30.0	30.0	30.0	30.0	30.0	NEW PRAGUE
443237	933424	100 11	82.4	76.6	85.0	99.0	114.4	100.0	75.0	75.0	75.0	75.0	NEW PRAGUE
443237	933424	100 11	0	0	0	0	0	0	0	0	0	0	NEW PRAGUE
443237	933424	100 11	0	0	0	0	0	0	0	0	0	0	NEW PRAGUE
443418	932106	100 11	7.0	8.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0	9.0	NEW MARKET
443714	934612	100 11	40.8	44.4	39.6	44.5	51.9	43.0	45.0	45.0	45.0	45.0	BELLE PLAINE
443714	934612	100 11	40.8	44.4	39.6	44.5	51.9	43.0	57.8	47.4	45.0	45.0	BELLE PLAINE

Table 9.—Annual ground-water use for public supply—Continued

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
SCOTT COUNTY—Continued													
443732	934604	100 11	0	0	0	0	0	0	0	0	0	0	BELLE PLAINE
443957	933748	100 11	15.0	15.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	18.0	JORDAN
444002	933740	100 11	0	0	0	0	0	0	0	0	0	0	JORDAN
444002	933740	100 11	0	0	0	0	0	0	0	0	0	0	JORDAN
444012	933741	85 11	29.8	25.5	25.5	25.5	25.5	25.5	27.2	27.2	27.2	27.2	JORDAN
444012	933741	15 11	5.3	4.5	4.5	4.5	4.5	4.5	4.8	4.8	4.8	4.8	JORDAN
444017	933751	100 11	20.0	15.0	15.0	15.0	15.0	15.0	18.0	18.0	18.0	18.0	JORDAN
444017	933751	100 11	0	0	0	0	0	0	0	0	0	0	JORDAN
444249	932432	100 11	0	0	0	0	0	0	72.2	73.6	83.7	95.6	PRIOR LAKE
444254	932521	100 11	6.0	0	0	0	0	0	0	0	0	0	PRIOR LAKE
444255	932500	100 11	30.0	45.0	45.0	45.0	17.9	45.0	0	0	0	0	PRIOR LAKE
444258	932447	100 11	0	0	0	0	59.2	70.0	83.0	83.0	83.0	80.2	PRIOR LAKE
444351	931948	100 11	3.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	ELKO
444634	932127	100 11	0	0	0	0	0	0	0	0	19.3	4.8	SAVAGE
444641	932036	100 11	96.6	98.3	87.2	94.8	97.3	85.0	107.0	100.0	73.0	95.3	SAVAGE
444647	933352	5 12	.6	.6	.4	.6	.1	.8	.8	.9	.9	.9	BONNEVISTA TRAILER P 1
444647	933352	95 11	12.2	12.1	8.3	12.2	2.5	14.4	16.0	16.4	16.2	16.2	BONNEVISTA TRAILER P 1
444725	933126	70 11	63.6	42.6	65.9	64.6	51.5	56.0	56.0	56.0	56.0	56.0	SHAKOPEE
444725	933126	5 11	4.5	3.0	4.7	4.6	3.7	4.0	4.0	4.0	4.0	4.0	SHAKOPEE
444725	933126	25 11	22.7	15.2	14.1	23.1	18.4	20.0	20.0	20.0	20.0	20.0	SHAKOPEE
444726	933108	70 11	81.6	88.8	84.0	91.6	67.1	82.6	70.0	70.0	70.0	70.0	SHAKOPEE
444726	933108	25 11	29.2	31.7	30.0	32.7	24.0	29.5	25.0	25.0	25.0	25.0	SHAKOPEE
444726	933108	5 11	5.8	6.3	6.0	6.6	4.8	5.9	5.0	5.0	5.0	5.0	SHAKOPEE
444733	932701	100 11	0	0	40.0	40.0	40.0	40.0	90.0	90.0	0	0	SHAKOPEE

Table 9.—Annual ground-water use for public supply—Continued

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
SCOTT COUNTY—Continued														
444740	932701	100	11	0	0	40.0	40.0	40.0	40.0	90.0	90.0	90.0	90.0	SHAKOPEE 4
444810	933129	25	11	10.0	13.4	6.9	11.0	7.9	9.8	5.0	5.0	5.0	5.0	SHAKOPEE 1
444810	933129	5	11	2.0	2.7	1.4	2.2	1.6	2.0	1.0	1.0	1.0	1.0	SHAKOPEE 1
444810	933129	70	11	28.0	37.5	19.3	30.8	22.2	27.3	14.0	14.0	14.0	14.0	SHAKOPEE 1
SCOTT COUNTY TOTALS				683.0	684.2	740.4	810.8	799.4	855.3	1023.8	1008.3	918.1	935.0	
WASHINGTON COUNTY														
444919	925815	100	11	107.2	112.2	107.1	98.2	80.4	69.0	57.7	81.9	73.6	17.6	COTTAGE GROVE 2
444941	925552	100	11	0	0	0	0	0	75.0	71.0	32.5	19.5	4.2	COTTAGE GROVE 7
444943	925600	100	11	0	0	0	0	0	0	0	0	47.7	100.1	COTTAGE GROVE 8
444946	925621	100	11	116.8	97.8	117.0	48.2	59.9	69.5	83.5	53.9	23.6	17.3	COTTAGE GROVE 3
444947	925545	100	11	0	0	0	0	0	0	0	0	0	0	COTTAGE GROVE 9
444947	925613	100	11	135.4	106.8	49.1	166.4	99.2	105.5	155.5	62.0	179.5	131.6	COTTAGE GROVE 5
444947	925613	100	11	47.2	38.2	8.1	116.4	118.5	83.9	107.4	137.4	93.3	85.0	COTTAGE GROVE 4
444950	925807	100	11	70.2	68.7	63.1	60.8	70.1	69.1	98.6	94.6	85.7	115.4	COTTAGE GROVE 1
444953	925600	100	11	0	0	0	0	93.5	97.3	98.2	151.0	86.4	57.1	COTTAGE GROVE 6
445017	925919	100	11	50.5	52.2	52.9	38.9	38.1	42.7	40.0	40.0	37.8	38.8	ST PAUL PARK 2
445054	925945	100	11	55.5	60.9	44.2	75.0	71.7	78.1	60.0	60.0	55.5	37.3	ST PAUL PARK 1
445201	930003	100	11	0	0	0	.4	44.1	64.3	97.0	74.6	99.5	27.4	NEWPORT 2
445227	925951	100	11	92.4	84.3	71.0	98.4	53.5	45.9	41.4	56.6	38.6	90.2	NEWPORT 1
445506	925623	100	11	168.5	84.9	79.1	103.7	122.0	94.7	73.8	97.2	113.7	97.6	WOODBURY 2
445513	925628	100	11	0	0	0	0	0	0	0	0	0	0	WOODBURY 5
445513	925634	100	11	.8	75.9	113.5	120.4	122.3	77.1	100.4	81.4	117.2	109.3	WOODBURY 3
445520	925635	100	11	0	0	0	0	82.0	82.3	141.1	88.8	68.9	118.0	WOODBURY 4
445630	925859	100	11	7.5	.2	.4	.5	.8	1.0	.1	1.9	.1	.1	WOODBURY 1
445707	925824	100	11	16.0	20.0	19.0	22.4	20.6	19.0	19.5	20.0	20.0	20.0	LANDFALL TERRACE 2
445725	925418	100	11	31.6	54.8	51.7	58.5	58.5	47.6	77.4	62.6	57.6	46.0	CIMARRON 1

Table 9.—Annual ground-water use for public supply—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY—Continued													
445733	925828	100 11	60.6	61.6	71.5	79.7	74.3	88.6	69.0	72.9	72.7	47.7	OAKDALE 2
445740	925756	100 11	53.4	41.2	56.9	58.2	90.8	77.5	88.8	79.4	84.3	66.0	OAKDALE 1
445821	925750	100 11	0	0	0	0	0	0	0	0	0	0	OAKDALE 5
445904	925900	100 11	54.1	38.9	52.5	35.0	43.9	36.8	56.7	48.7	60.7	68.2	ST PAUL PARK 3
445937	925848	100 11	0	0	0	0	0	0	84.4	70.5	82.3	122.5	OAKDALE 4
445951	925251	85 11	13.1	12.5	13.4	14.1	14.5	24.2	17.4	18.5	15.0	14.5	LAKE ELMO 1
445951	925251	15 11	2.3	2.2	2.4	2.5	2.6	4.3	3.1	3.3	2.6	2.6	LAKE ELMO 1
450015	925810	100 11	17.1	55.6	61.5	83.9	75.8	93.3	81.3	78.2	77.7	86.6	OAKDALE 3
450054	924702	100 11	34.6	45.9	51.7	48.3	53.2	44.6	53.0	62.1	53.0	53.0	BAYPORT 2
450100	924702	100 11	27.0	24.1	45.5	27.0	26.1	45.8	48.8	25.1	25.0	12.8	BAYPORT 4
450101	924631	85 11	0	0	0	0	0	0	0	0	0	0	BAYPORT 1
450101	924631	15 11	0	0	0	0	0	0	0	0	0	0	BAYPORT 1
450112	924720	100 11	29.5	36.9	17.1	40.6	52.1	38.1	37.1	32.9	37.1	41.3	BAYPORT 3
450201	924911	100 11	32.0	39.6	34.2	52.1	62.6	86.1	45.4	29.6	39.1	45.0	OAK PARK HTS 1
450204	924903	100 11	0	0	0	0	0	0	41.7	55.3	47.9	0	OAK PARK HTS 2
450222	924943	100 11	0	0	0	0	0	0	0	0	0	50.0	STILLWATER 9
450237	924828	100 11	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	STILLWATER 6
450247	925024	100 11	0	0	0	0	0	30.0	50.0	50.0	50.0	50.0	STILLWATER 8
450303	925046	85 11	0	0	0	0	0	0	0	0	0	0	STILLWATER 7
450303	925046	15 11	0	0	0	0	0	0	0	0	0	0	STILLWATER 7
450312	924928	100 11	180.0	180.0	180.0	180.0	180.0	180.0	175.0	175.0	175.0	175.0	STILLWATER 5
450323	924840	100 11	200.0	180.0	180.0	180.0	180.0	180.0	175.0	175.0	175.0	175.0	STILLWATER 1
450328	924829	85 11	0	0	0	0	0	0	0	0	0	0	STILLWATER 3
450328	924829	15 11	0	0	0	0	0	0	0	0	0	0	STILLWATER 3
450334	924910	85 11	0	0	0	0	0	0	0	0	0	0	STILLWATER 2
450334	924910	15 11	0	0	0	0	0	0	0	0	0	0	STILLWATER 2
450352	924912	100 11	40.0	40.0	40.0	40.0	40.0	40.0	0	0	0	0	STILLWATER 4
450358	925711	100 11	35.0	0	0	0	0	0	0	0	0	0	MAHTONEDI 2

Table 9.—Annual ground-water use for public supply—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY—Continued														
450358	925711	100	11	69.0	69.1	80.0	72.1	86.3	92.7	72.4	45.6	52.3	55.3	MAHTOMEDI 4
450358	925711	100	11	15.0	0	0	0	0	0	0	0	0	0	MAHTOMEDI 1
450417	925704	100	11	40.6	35.4	40.0	48.5	39.6	33.2	52.0	51.6	53.0	54.7	MAHTOMEDI 3
450944	925942	100	11	15.9	14.6	16.4	17.7	22.8	19.7	28.4	25.5	28.5	29.0	HUGO 1
451655	925904	15	11	.6	.8	.8	.9	.9	0	0	0	9.3	4.3	FOREST LAKE 1
451655	925904	85	11	3.7	4.3	4.6	4.9	5.2	0	0	0	0	0	FOREST LAKE 1
451655	925904	100	11	12.0	12.0	12.0	12.0	12.0	20.6	24.9	23.1	62.2	28.8	FOREST LAKE 2
451706	925913	100	11	65.0	100.0	100.0	100.0	100.0	137.1	166.0	154.0	89.7	161.4	FOREST LAKE 3
WASHINGTON CO TOTALS				1975.1	1926.6	1911.7	2180.7	2372.9	2469.6	2793.0	2572.7	2610.6	2556.7	
TWIN CITIES TOTALS														
TWIN CITIES TOTALS				22411.1	22657.7	23738.8	26757.3	29174.5	30590.5	36451.2	33169.1	34184.1	33355.0	

Table 10.—Annual ground-water use for self-supplied industry

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANKA COUNTY														
450209	931532	100	41	45.0	45.0	45.0	45.0	45.0	45.0	43.0	43.0	43.0	43.0	CARGILL INC. FLAX PL 1
450215	931528	100	40	34.5	14.8	49.6	32.0	32.0	32.0	14.3	50.0	50.0	107.1	HONEYWELL HILLCRIST 1
450221	931543	100	47	0	0	0	0	0	11.2	98.6	63.3	46.1	78.2	MPLS ELECTRIC STEEL 2
450255	931615	100	41	90.0	83.0	83.0	83.0	83.0	83.0	75.0	75.0	75.0	75.0	HONEYMEAD-MN LINSEED 1
450255	931615	100	41	90.0	83.0	83.0	83.0	83.0	83.0	75.0	75.0	75.0	75.0	HONEYMEAD-MN LINSEED 2
450317	931633	100	47	195.9	154.7	20.8	76.8	3.9	2.2	24.3	12.4	1.1	6.0	F.M.C 1
450336	931628	100	47	178.0	129.0	129.0	129.0	129.0	129.0	168.0	168.0	168.0	168.0	F.M.C. 2
450336	931628	100	47	178.0	129.0	129.0	129.0	129.0	129.0	168.0	168.0	168.0	168.0	F.M.C. 3
450406	931848	100	47	97.9	100.9	115.4	114.4	113.4	111.0	20.0	.1	8.8	10.0	MPLS ELECTRIC STEEL 1
450513	931608	100	40	12.1	12.1	12.1	12.1	12.1	15.8	21.3	17.5	19.6	22.5	DESIGNWARE INDUSTRIE 1
451206	932212	100	47	20.0	20.0	20.0	20.0	20.0	20.7	9.8	5.4	7.6	15.1	FEDERAL CARTRIDGE 1
451206	932212	100	47	80.0	80.0	80.0	80.0	80.0	46.8	44.1	84.9	84.6	46.7	FEDERAL CARTRIDGE 2
451206	932212	100	47	80.0	80.0	80.0	80.0	80.0	46.8	85.0	84.9	84.6	85.0	FEDERAL CARTRIDGE 3
451208	932219	100	47	60.0	60.0	60.0	60.0	60.0	70.1	78.8	30.3	39.4	74.3	FEDERAL CARTRIDGE 4
ANKA COUNTY TOTALS				1161.4	991.5	906.9	944.3	870.4	825.6	925.2	877.8	870.8	973.9	
CARVER COUNTY														
444357	935750	85	41	0	0	0	0	0	0	0	0	0	0	HAMBURG DAIRY ASSOC 1
444357	935750	15	41	0	0	0	0	0	0	0	0	0	0	HAMBURG DAIRY ASSOC 1
444545	935058	85	41	0	0	0	0	0	0	0	0	0	0	BONGARDS CREAMERIES 1
444545	935058	15	41	0	0	0	0	0	0	0	0	0	0	BONGARDS CREAMERIES 1
444545	935058	100	41	486.8	495.6	491.6	491.4	467.4	158.9	163.1	155.0	152.0	135.8	BONGARDS CREAMERIES 4
444744	933505	100	41	2.3	1.4	16.5	12.5	10.9	13.0	12.5	12.3	13.3	11.8	AMERICAN CRYSTAL SDG 1
444808	933424	100	41	37.1	47.6	48.3	50.6	58.2	29.8	81.8	49.6	42.6	58.0	M.A. GEDNEY 1
444808	933425	100	41	38.4	83.7	50.1	37.4	45.2	15.8	8.8	35.5	21.4	22.0	M.A. GEDNEY 2
445102	934721	100	41	0	0	0	0	0	0	0	0	0	0	WACONIA CREAMERY 1
CARVER COUNTY TOTALS				564.6	628.3	606.5	591.9	581.7	217.5	266.2	252.4	229.3	227.6	

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY														
443824	930855	5	41	11.1	8.8	8.8	8.8	8.8	8.8	5.3	5.3	5.3	5.3	TWIN CITIES MILK PRO 1
443824	930855	95	41	210.9	166.3	166.3	166.3	166.3	166.3	100.7	100.7	100.7	100.7	TWIN CITIES MILK PRO 1
443824	930855	100	41	353.3	344.5	316.4	196.5	193.1	263.0	160.0	160.0	160.0	160.0	MID-AMERICA DAIRYMEN 2
444328	931421	100	44	169.2	169.1	175.0	238.2	186.9	156.4	139.3	0	0	0	NORTHWESTERN GRAVEL 1
444334	925056	100	41	26.0	30.0	70.0	57.0	61.4	31.6	31.7	29.0	29.0	29.0	PEAVY 1
444357	931220	100	44	136.9	151.5	158.2	162.0	155.5	121.6	128.2	138.5	138.0	152.5	FISCHER CONSTRUCTION 1
444403	931122	100	44	8.3	12.4	12.6	12.6	12.7	11.5	10.9	11.8	12.0	14.2	NORTH STAR CONCRETE 1
444517	930714	100	48	29.3	29.3	13.6	14.4	16.1	20.8	36.8	68.0	68.3	70.2	BROCKWAY GLASS 1
444533	930141	100	46	429.6	463.8	481.8	472.8	415.0	378.5	359.3	358.9	338.2	335.6	ST PAUL AMMONIA PROD 2
444535	930124	100	46	60.2	61.1	61.1	57.2	43.6	43.4	44.2	44.2	44.3	44.3	NORTH STAR CHEMICALS 1
444539	930150	100	46	17.2	.2	1.5	2.3	33.5	26.8	.1	3.9	1.7	.1	ST. PAUL AMMONIA PROD 1
444539	930150	100	46	0	0	0	0	0	0	0	0	0	0	LIQUID CARBONIC 1
444557	930224	100	46	0	0	0	0	70.1	381.5	249.3	220.0	350.1	364.1	KOCH REFINING 7
444558	930223	100	46	382.2	378.5	371.6	461.4	448.9	217.9	87.0	335.9	191.6	199.5	KOCH REFINING 1
444558	930230	100	46	565.6	650.1	458.3	489.3	355.8	84.9	376.7	192.0	192.0	202.0	KOCH REFINING 2
444602	930222	100	46	19.9	19.0	20.1	19.8	17.7	.9	.2	3.7	2.0	1.2	KOCH REFINING 6
444606	930240	85	46	365.6	427.7	329.9	364.3	498.9	431.9	483.7	440.7	418.2	434.8	KOCH REFINING 5
444606	930240	15	46	64.5	75.5	58.2	64.3	88.0	76.2	85.4	77.8	73.8	76.7	KOCH REFINING 5
444608	930234	100	46	300.5	444.8	231.6	203.0	15.7	14.4	55.1	39.6	6.7	7.0	KOCH REFINING 3
444654	930158	15	46	1.9	1.5	1.5	.7	.9	.8	1.1	.6	.7	.7	CENEX 1
444654	930158	85	46	10.6	8.6	8.6	4.2	5.0	4.4	6.2	3.5	3.9	3.7	CENEX 1
444701	931738	100	44	254.4	301.5	385.2	394.5	323.3	155.4	372.5	118.8	547.5	54.8	KREAMER & SONS 1
444730	931526	100	41	0	19.0	25.2	29.8	22.2	31.0	33.9	34.7	30.0	30.0	PEPSI COLA BOTTLING 1
444758	930607	85	46	57.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	CENEX INC 1
444758	930607	15	46	10.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	CENEX INC 1
444838	931457	100	25	19.7	20.2	22.8	27.1	28.9	28.7	31.1	27.6	26.7	22.2	N.S.P. 1
445118	930919	100	41	12.7	18.3	24.0	24.5	26.2	27.5	33.2	35.7	38.2	48.3	COCA COLA 1
445311	930153	100	41	300.0	300.0	300.0	300.0	300.0	300.0	330.0	330.0	330.0	321.7	ST PAUL UNION STYD 111

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
445313	930114	100	40	25.4	.9	14.2	0	0	0	0	0	0	0	VAN HOVEN CO 1
445323	930124	15	41	180.0	165.0	165.0	165.0	165.0	165.0	135.0	135.0	135.0	0	ARMOUR & CO 4
445323	930124	85	41	1020.0	935.0	935.0	935.0	935.0	935.0	765.0	765.0	765.0	0	ARMOUR & CO 4
445323	930130	15	41	67.5	45.0	45.0	45.0	45.0	45.0	37.5	37.5	37.5	0	ARMOUR & CO 3
445323	930130	85	41	382.5	255.0	255.0	255.0	255.0	255.0	212.5	212.5	212.5	0	ARMOUR & CO 3
445323	930134	70	41	0	0	0	0	0	0	0	0	0	0	ARMOUR AND CO 1
445323	930134	25	41	0	0	0	0	0	0	0	0	0	0	ARMOUR AND CO 1
445323	930134	5	41	0	0	0	0	0	0	0	0	0	0	ARMOUR AND CO 1
445326	930134	70	41	350.0	245.0	245.0	245.0	245.0	245.0	175.0	175.0	175.0	0	ARMOUR & CO 2
445326	930134	5	41	25.0	17.5	17.5	17.5	17.5	17.5	12.5	12.5	12.5	0	ARMOUR & CO 2
445326	930134	25	41	125.0	87.5	87.5	87.5	87.5	87.5	62.5	62.5	62.5	0	ARMOUR & CO 2
445329	930126	100	41	182.6	116.3	128.5	6.0	0	0	0	0	0	0	ARMOUR & CO 5
445330	930131	25	41	87.5	62.5	62.5	62.5	62.5	62.5	50.0	50.0	50.0	0	ARMOUR & CO 6
445330	930131	5	41	17.5	12.5	12.5	12.5	12.5	12.5	10.0	10.0	10.0	0	ARMOUR & CO 6
445330	930131	70	41	245.0	175.0	175.0	175.0	175.0	175.0	140.0	140.0	140.0	0	ARMOUR & CO 6
445330	930152	100	41	12.0	126.0	26.8	93.6	197.2	185.1	171.9	124.6	90.0	85.7	ST PAUL UNION STYD 2
445330	930152	100	41	0	0	0	0	0	0	0	0	0	0	ST PAUL UNION STYD 84
445331	930141	100	41	0	0	0	0	0	0	0	0	0	0	ST PAUL UNION STYD 1
445334	930201	100	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 01
445336	930139	100	41	514.1	497.9	71.8	0	0	0	0	0	0	0	SWIFT & CO. 6
445338	930139	85	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 3
445338	930139	15	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 3
445338	930139	100	41	0	0	0	0	0	0	0	0	0	0	SWIFT AND CO. 4
445339	930155	100	41	28.4	34.4	37.2	24.5	23.1	30.0	10.0	10.0	10.0	10.0	RIFKIN & SONS 1
445339	930155	70	41	10.5	10.5	10.5	6.1	10.5	9.1	7.0	7.0	7.0	7.0	RIFKIN & SONS 2
445339	930155	25	41	3.8	3.8	3.8	2.2	3.8	3.3	2.5	2.5	2.5	2.5	RIFKIN & SONS 2
445339	930155	5	41	.8	.8	.8	.4	.8	.7	.5	.5	.5	.5	RIFKIN & SONS 2
445342	930151	15	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 1

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
445342	930151	85	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 1
445342	930213	25	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 02
445342	930213	70	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 02
445342	930213	5	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 02
445342	930213	15	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 03
445342	930213	85	41	0	0	0	0	0	0	0	0	0	0	SWIFT & CO. 03
445346	930206	85	41	127.5	191.3	286.8	285.0	225.6	191.3	2.7	1.7	1.7	1.7	SWIFT & CO. 2
445346	930206	15	41	22.5	33.8	50.6	50.3	39.8	33.8	.5	.3	.3	.3	SWIFT & CO. 2
DAKOTA COUNTY TOTALS				7244.3	7118.5	6334.4	6240.2	5996.4	5438.6	4958.1	4528.6	4822.0	2787.4	
HENNEPIN COUNTY														
445133	932009	100	40	0	0	11.8	28.1	24.3	23.1	25.0	25.0	25.0	24.3	LAKE SIDE INDUSTRIES 1
445137	932754	100	40	83.6	105.9	123.5	119.6	102.0	87.8	71.9	61.7	58.7	47.9	CHAR-LYNN CO 1
445604	932218	100	47	67.0	54.0	46.0	11.0	6.0	10.0	12.0	15.0	15.0	15.0	FLAME INDUSTRIES 1
445611	932118	100	48	0	0	0	0	0	0	0	0	0	0	MINNESOTA RUBBER CO 1
445611	932118	100	48	60.2	62.6	85.5	55.3	85.1	57.9	107.4	75.1	90.0	69.5	MINNESOTA RUBBER CO 2
445625	931352	5	41	.3	.1	0	0	0	0	.2	.1	.1	.1	ARCHER DANIELS MIDLA 1
445625	931352	10	41	.6	.2	0	0	0	0	.3	.2	.2	.2	ARCHER DANIELS MIDLA 1
445625	931352	25	41	1.4	.4	0	.1	0	0	.8	.6	.5	.5	ARCHER DANIELS MIDLA 1
445625	931352	60	41	3.4	1.0	0	.1	0	0	1.8	1.5	1.2	1.1	ARCHER DANIELS MIDLA 1
445659	931751	100	41	0	0	0	0	0	0	0	0	0	0	NORRIS CREAMERIES IN 1
445659	931751	100	41	20.5	26.9	34.5	27.0	49.7	3.3	17.8	19.8	20.7	16.0	NORRIS CREAMERIES 2
445700	931410	100	47	64.1	59.1	44.3	0	0	0	0	0	0	0	WHITE FARM EQUIP CO 3
445700	931724	5	40	0	0	0	0	0	0	0	0	0	0	SANITARY ICE 1
445700	931724	95	40	0	0	0	0	0	0	0	0	0	0	SANITARY ICE 1
445703	931645	100	41	0	0	0	0	0	0	0	0	0	0	NORTHLAND MILK 1
445703	931645	100	41	30.0	10.0	10.0	12.3	6.8	10.0	10.0	10.0	0	0	NORTHLAND MILK 2

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445714	931419	95 47	0	0	0	0	0	0	0	0	0	0	WHITE FARM EQUIP 1
445714	931419	5 47	0	0	0	0	0	0	0	0	0	0	WHITE FARM EQUIP 1
445715	932220	100 48	74.1	51.4	70.1	81.3	84.1	37.5	59.9	81.8	130.7	124.2	MCCOURTNEY'S PLASTIC 1
445717	931425	15 47	3.0	0	0	0	0	0	0	0	0	0	WHITE FARM EQUIP 2
445717	931425	85 47	17.0	0	0	0	0	0	0	0	0	0	WHITE FARM EQUIP 2
445717	931425	15 40	0	0	0	0	0	0	0	0	0	0	MILWAUKEE ROAD 2
445717	931425	85 40	0	0	0	0	0	0	0	0	0	0	MILWAUKEE ROAD 2
445718	931401	100 47	33.8	31.7	36.9	36.0	46.0	10.2	42.5	35.9	38.1	32.0	FLOUR CITY ARCHT MET 1
445719	931333	100 47	18.8	2.0	.4	.3	1.3	0	0	0	0	0	HIWATHA METALCRAFT 1
445719	931333	100 47	38.6	38.6	43.5	58.4	62.6	37.5	4.3	27.6	29.7	18.0	HIWATHA METALCRAFT 2
445719	931333	100 47	76.9	127.8	123.8	72.7	167.5	143.4	115.1	105.1	148.9	140.0	HIWATHA METALCRAFT 3
445726	931639	95 40	0	0	0	0	0	0	0	0	0	0	CEDAR LAKE ICE 1
445726	931639	5 40	0	0	0	0	0	0	0	0	0	0	CEDAR LAKE ICE 1
445733	932143	100 41	42.3	51.7	51.8	56.5	50.9	60.4	66.3	53.8	47.5	13.0	FOOD PRODUCERS 1
445736	931448	100 47	26.3	24.7	23.7	19.0	8.6	.5	9.4	0	0	0	NUMERIC MACHINING 1
445801	931618	100 40	0	0	0	0	0	0	0	0	0	0	LAURENCE LAUNDRIES 1
445808	931440	100 41	0	0	0	0	0	0	0	0	0	0	CREST ICE CREAM 1
445810	931247	100 47	0	0	0	1.9	15.3	16.8	14.5	18.9	21.5	18.5	LEWIS BOLT & NUT CO 1
445824	931308	100 42	129.1	119.0	103.7	109.3	96.6	85.3	86.1	82.1	88.3	97.0	CHAMPION PACKAGES 1
445825	931524	100 40	27.9	30.4	29.0	32.0	32.0	36.2	35.0	1.0	0	0	CHIC. ROCK ISLAND & 2
445827	931505	100 48	34.4	44.5	33.0	36.1	27.0	24.4	17.9	24.5	5.7	15.0	JENSON PRINTING 1
445828	931316	100 41	61.9	60.3	60.5	48.0	40.0	41.7	48.6	59.8	100.8	50.0	SPENCER-KELLOGG 1
445828	931633	95 40	0	0	0	0	0	0	0	0	0	0	AMERICAN LINEN 1
445828	931633	5 40	0	0	0	0	0	0	0	0	0	0	AMERICAN LINEN 1
445828	931633	100 40	0	0	0	0	0	0	0	0	0	0	AMERICAN LINEN 2
445829	931250	100 41	151.0	24.2	90.0	90.0	90.0	0	0	0	0	0	KURTH MALTING CO. 1
445829	931250	100 41	314.4	179.2	24.0	.2	24.0	0	0	0	0	0	KURTH MALTING 2
445832	931305	100 40	0	0	0	0	0	0	0	0	0	0	BURLINGTON NORTHERN 1

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445832	931531	100 47	41.5	40.0	34.9	52.2	49.8	40.1	25.0	25.0	25.0	25.0	WOLKERSTORFER CO 1
445833	932347	100 41	111.6	222.6	204.5	204.8	131.8	57.6	99.9	110.0	110.0	117.9	GENERAL MILLS 1
445833	932347	100 41	0	0	0	0	0	0	0	0	0	0	GENERAL MILLS 4
445834	931344	100 41	0	0	0	0	0	0	0	0	0	0	COCA COLA BOTTLING 1
445840	932347	100 41	111.6	222.6	204.5	204.8	131.8	57.6	99.9	109.8	115.0	117.9	GENERAL MILLS 2
445840	932347	100 41	274.5	149.1	160.0	171.1	121.3	149.7	168.7	163.7	133.0	113.8	GENERAL MILLS 3
445847	931652	100 47	44.5	68.9	54.0	54.0	86.6	7.0	5.0	5.6	5.0	5.0	N.W. AUTOMATIC PRODU 1
445847	931730	95 41	119.7	119.4	93.1	88.4	100.7	100.7	0	0	0	0	TWIN CITY MILK PROD 1
445847	931730	5 41	6.3	6.3	4.9	4.7	5.3	5.3	0	0	0	0	TWIN CITY MILK PROD 1
445847	931730	100 41	10.0	10.0	10.0	10.0	10.0	10.0	0	0	0	0	NORTHLAND MILK 1
445849	931659	35 41	0	0	0	0	0	0	0	0	0	0	KEMPS ICE CREAM 1
445849	931659	65 41	0	0	0	0	0	0	0	0	0	0	KEMPS ICE CREAM 1
445849	931659	35 41	0	0	0	0	0	0	0	0	0	0	KEMPS ICE CREAM 2
445849	931659	65 41	0	0	0	0	0	0	0	0	0	0	KEMPS ICE CREAM 2
445850	931347	100 41	12.1	13.5	17.1	12.6	15.2	12.5	12.7	11.6	14.2	14.7	MCLAUGHLIN GORMLEY K 1
445850	931720	100 48	78.3	74.2	83.7	81.0	81.4	74.5	80.0	51.6	38.5	50.0	MUNSWINGWEAR 1
445850	931720	100 48	4.4	10.0	7.9	6.0	2.5	7.9	6.0	4.1	2.0	1.0	MUNSWINGWEAR 2
445857	931632	65 40	40.6	51.9	54.7	59.3	54.0	55.3	55.3	55.3	55.3	55.3	BELL COLD STORAGE 1
445857	931632	35 40	27.9	28.0	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	BELL COLD STORAGE 1
445857	931632	35 40	21.9	28.0	29.4	31.9	29.1	29.8	29.8	29.8	29.8	29.8	BELL COLD STORAGE 2
445857	931632	65 40	51.9	51.9	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	BELL COLD STORAGE 2
445858	931714	5 40	0	0	0	0	0	0	0	0	0	0	CEDAR LAKE ICE 2
445858	931714	95 40	0	0	0	0	0	0	0	0	0	0	CEDAR LAKE ICE 2
445901	931502	100 41	82.5	75.2	51.3	65.4	41.6	41.0	45.9	53.9	50.0	50.0	PILLSBURY CO 1
445902	931712	100 40	45.0	54.4	60.2	63.4	61.3	67.2	66.8	71.9	70.7	64.8	N.W. LININ 1
445906	931538	100 41	.7	.5	40.8	39.2	38.3	41.0	30.0	30.0	30.0	30.0	DURKEE ATWOOD CO 1
445906	932138	100 40	59.8	40.9	48.1	62.8	43.9	52.6	57.9	47.4	41.2	48.2	PAKO CORP 1
445908	932016	65 40	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	SCHAPER MFG. 2

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445908	932016	35 40	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	SCHAPER MFG. 2
445909	931631	100 41	0	0	0	0	0	0	0	0	0	0	SUNSHINE BISCUIT 1
445911	932022	35 40	0	0	0	0	0	0	0	0	0	0	SCHAPER MFG 1
445911	932022	65 40	0	0	0	0	0	0	0	0	0	0	SCHAPER MFG 1
445912	931514	95 41	20.0	19.0	20.6	20.6	20.6	19.0	9.5	9.5	2.0	0	NORTHLAND FOREMOST 1
445912	931514	5 41	1.1	1.0	1.1	1.1	1.1	1.0	.5	.5	.1	0	NORTHLAND FOREMOST 1
445913	931525	100 41	51.0	33.0	38.6	26.8	31.9	33.3	38.6	38.2	4.2	4.0	COCA COLA BOTTLING 1
445914	931528	100 40	0	0	0	0	0	0	0	0	0	0	WESTLING MANUFACTURI 2
445915	931618	100 40	9.6	11.8	10.9	10.6	10.7	11.0	7.0	7.0	7.0	7.0	LINDSAY BROS CO 1
445922	931521	100 47	396.1	257.7	282.6	182.9	194.9	132.6	153.2	189.3	177.7	201.1	SUPERIOR PLATING 2
445927	931407	100 47	0	0	0	0	0	0	0	0	0	0	SUPERIOR PLATING 1
445928	931422	100 47	64.3	67.6	123.3	105.3	96.5	101.1	105.0	73.7	86.0	90.0	METALLURGICAL INC 1
445928	931422	100 47	40.0	10.0	10.0	10.0	10.0	10.0	1.0	1.0	1.0	1.0	METALLURGICAL INC 2
445932	931322	100 41	28.4	50.0	47.8	11.2	27.0	35.6	39.6	20.2	21.5	27.0	GENERAL MILLS 1
445932	931547	100 40	192.9	21.0	24.0	25.0	13.0	0	0	0	0	0	B.F. NELSON MFG. 1
445932	931547	100 40	192.9	118.0	136.0	144.0	73.0	0	0	0	0	0	B.F. NELSON MFG. 2
445936	932327	100 41	132.5	104.8	115.9	113.6	72.1	82.1	105.7	84.0	84.0	130.9	GENERAL MILLS 1
445936	932327	100 41	132.5	104.8	115.9	113.6	72.1	82.1	105.7	90.0	90.0	38.5	GENERAL MILLS 2
445939	931445	100 40	5.5	13.0	9.1	9.5	9.8	8.3	6.9	6.1	0	0	BURLINGTON NORTHERN 3
445943	932337	100 41	132.5	104.8	115.9	113.6	72.1	82.1	105.7	76.6	40.0	38.5	GENERAL MILLS 3
445951	931243	100 40	68.6	92.9	109.3	88.7	77.8	94.9	97.0	96.2	105.5	96.0	AMERICAN LINEN 1
445955	931349	100 41	50.9	34.1	22.8	32.7	28.4	25.5	30.4	38.9	31.3	30.7	SUPERIOR DAIRIES 1
445957	931858	100 41	5.5	5.1	4.8	3.9	.8	3.0	3.6	9.5	7.6	7.5	EWALD BROS. INC 1
445958	931614	25 41	0	0	0	0	0	0	0	0	0	0	GRAIN BELT 1
445958	931614	5 41	0	0	0	0	0	0	0	0	0	0	GRAIN BELT 1
445958	931614	70 41	0	0	0	0	0	0	0	0	0	0	GRAIN BELT 1
445958	931614	100 41	0	0	0	0	0	0	0	0	0	0	GRAIN BELT 2
445958	931614	25 41	20.3	20.8	20.0	19.4	10.0	5.0	0	0	0	0	GRAIN BELT 3

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued														
445958	931614	70	41	56.7	58.2	56.0	54.4	28.0	14.0	0	0	0	0	GRAIN BELT 3
445958	931614	5	41	4.1	4.2	4.0	3.9	2.0	1.0	0	0	0	0	GRAIN BELT 3
445958	931614	70	41	154.0	349.4	281.4	213.7	0	0	0	0	0	0	GRAIN BELT 4
445958	931614	5	41	11.0	25.0	20.1	15.3	0	0	0	0	0	0	GRAIN BELT 4
445958	931614	25	41	55.0	124.8	100.5	76.3	0	0	0	0	0	0	GRAIN BELT 4
445958	931614	100	41	453.2	316.0	447.5	607.1	572.3	495.5	0	0	0	0	GRAIN BELT 5
445958	931614	25	41	36.3	29.0	29.5	24.7	19.5	19.1	4.5	0	0	0	GRAIN BELT 6
445958	931614	5	41	7.3	5.8	5.9	4.9	3.9	3.8	.9	0	0	0	GRAIN BELT 6
445958	931614	70	41	101.7	81.2	82.5	69.1	54.5	53.3	12.7	0	0	0	GRAIN BELT 6
445958	932139	100	47	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	MPLS HONEYWELL 1
445958	932139	100	47	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	MPLS HONEYWELL 2
445959	931707	100	41	40.0	0	0	0	0	0	0	0	0	0	CLOVERLEAF CREAMERY 1
450005	931716	100	40	0	0	0	41.0	34.2	40.8	20.4	45.0	41.6	53.9	GROSS INDUSTRIAL TOW 1
450005	931716	5	41	0	0	0	0	0	0	0	0	0	0	FRANKLIN COOP CREAM 2
450005	931716	95	41	0	0	0	0	0	0	0	0	0	0	FRANKLIN COOP CREAM 2
450010	931326	100	47	232.5	282.1	223.0	223.0	164.0	128.9	251.9	125.0	118.2	121.2	MPLS HONEYWELL 1
450010	931326	100	47	143.2	118.8	112.0	112.0	104.0	120.2	100.0	100.0	100.0	100.0	MPLS HONEYWELL 2
450011	931641	35	40	0	0	0	0	0	0	0	0	0	0	CHIC, MILK, ST P, & OM 1
450011	931641	65	40	0	0	0	0	0	0	0	0	0	0	CHIC, MILK, ST P, & OM 1
450014	931218	100	47	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	PAPER CALMENSON 1
450017	931601	95	41	144.0	109.5	115.2	111.6	102.6	107.8	85.5	89.9	73.2	93.4	FLEISCHMANN MALTING 1
450017	931601	5	41	7.6	5.8	6.1	5.9	5.4	5.7	4.5	4.7	3.9	4.9	FLEISCHMANN MALTING 1
450017	931601	95	41	29.2	35.4	47.9	62.8	55.5	72.3	57.0	90.5	73.2	126.5	FLEISCHMANN MALTING 2
450017	931601	5	41	1.5	1.9	2.5	3.3	2.9	3.8	3.0	4.8	3.9	6.7	FLEISCHMANN MALTING 2
450025	931600	5	40	0	0	0	0	0	0	0	0	0	0	CEDAR SANITARY ICE 1
450025	931600	95	40	0	0	0	0	0	0	0	0	0	0	CEDAR SANITARY ICE 1
450025	931600	100	40	0	0	0	0	0	0	0	0	0	0	CEDAR SANITARY ICE 2
450027	931617	95	41	0	0	0	0	0	0	0	0	0	0	GLUCK BREWING 1

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
450027	931617	5 41	0	0	0	0	0	0	0	0	0	0	GLUCK BREWING 1
450027	931617	95 41	0	0	0	0	0	0	0	0	0	0	GLUCK BREWING 2
450027	931617	5 41	0	0	0	0	0	0	0	0	0	0	GLUCK BREWING 2
450030	931634	5 25	1.8	1.7	1.5	1.6	1.5	1.5	1.4	1.5	1.3	1.1	N.S.P. 1
450030	931634	95 25	33.4	31.4	28.9	31.1	29.4	28.2	26.6	27.9	24.7	20.7	N.S.P. 1
450032	932732	100 47	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	26.4	28.7	AACRON METALS 1
450040	931638	100 48	80.0	46.4	27.6	29.7	34.2	35.0	46.4	32.4	35.0	35.0	RUBBEROID CO. 1
450045	931635	35 41	0	0	0	0	0	0	0	0	0	0	M.A. GEDNEY 1
450045	931635	65 41	0	0	0	0	0	0	0	0	0	0	M.A. GEDNEY 1
450115	931502	25 40	13.1	14.0	14.0	14.0	14.1	14.0	10.0	10.0	10.0	10.0	SOOLINE RAILROAD CO. 2
450115	931502	70 40	36.8	39.2	39.2	39.2	39.4	39.2	28.0	28.0	28.0	28.0	SOOLINE RAILROAD CO. 2
450115	940502	5 40	2.6	2.8	2.8	2.8	2.8	2.8	2.0	2.0	2.0	2.0	SOOLINE RAILROAD CO. 2
450137	931653	100 47	80.0	35.0	35.0	35.0	35.0	35.0	20.0	20.0	20.0	20.0	SUPERIOR PLATING 1
450150	931606	100 40	7.1	6.0	1.6	6.0	6.0	6.0	0	0	0	0	BURLINGTON NORTHERN 3
450151	931610	95 40	1.0	0	.3	0	0	0	0	0	0	0	BURLINGTON NORTHERN 2
450151	931610	5 40	0	0	0	0	0	0	0	0	0	0	BURLINGTON NORTHERN 2
450609	932536	100 44	46.0	0	0	0	0	0	0	0	0	0	OSCAR ROBERTS 1
450623	932539	100 44	43.2	35.1	40.5	38.3	36.5	35.5	31.2	32.1	45.9	40.0	FREIDHEIM CONST. 1
450627	932519	85 44	0	0	0	0	0	0	0	0	0	0	BARTON CONTRACTING 1
450627	932519	15 44	0	0	0	0	0	0	0	0	0	0	BARTON CONTRACTING 1
450630	932515	100 44	81.7	79.3	19.7	39.2	60.0	60.0	0	0	0	0	BARTON CONTRACTING 2
450722	932554	100 48	27.0	26.8	27.0	27.0	0	13.0	27.6	28.4	31.6	13.0	REO PLASTICS 1
HENNEPIN COUNTY TOTALS			6433.0	5739.3	5703.0	5549.3	4771.0	4075.9	3589.8	3369.2	3336.2	3280.1	

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY													
445345	930045	100 47	300.0	85.2	108.0	77.3	107.6	91.0	93.9	85.0	86.2	102.7	NORTH STAR STEEL 2
445347	930038	100 47	3.0	4.0	4.0	4.0	4.0	4.0	2.1	2.6	2.5	2.5	NORTH STAR STEEL 1
445347	931030	100 47	106.1	89.0	117.4	149.5	132.1	145.0	154.2	150.0	150.0	150.0	UNIVAC 2
445424	930926	100 41	45.5	44.8	45.6	61.3	69.1	69.7	70.1	41.7	58.2	64.6	PEARSON CANDY CO. 1
445429	930858	100 48	26.8	28.9	36.6	40.4	39.6	38.8	62.5	91.3	27.0	115.6	WEBB PUBLISHING 10
445429	930858	100 48	59.1	84.4	104.0	97.9	73.9	50.5	84.0	83.0	85.8	86.6	WEBB PUBLISHING 19
445534	930251	100 45	262.5	227.5	270.0	270.0	415.0	241.0	300.0	184.0	380.7	600.2	METRO WASTE TREATMEN 1
445534	930251	100 45	262.5	227.5	295.0	295.0	271.4	310.4	400.0	560.0	278.4	425.0	METRO WASTE TREATMEN 2
445534	930251	100 45	72.0	72.0	64.0	64.0	72.0	47.0	60.0	0	12.5	40.0	METRO WASTE TREATMEN 3
445535	930655	100 25	11.2	5.7	4.9	7.1	6.5	0	0	0	0	0	NORTHERN STATES POWE 1
445543	930720	100 41	325.2	285.2	514.9	450.8	514.6	441.0	318.0	318.0	318.0	318.0	SCHMIDT BREWING CO. 5
445544	930721	100 41	269.7	261.8	129.2	163.4	151.0	176.0	80.0	80.0	79.2	80.0	SCHMIDT BREWING CO. 4
445547	930721	85 41	0	0	0	0	0	0	0	0	0	0	SCHMIDT BREWING CO. 1
445547	930721	15 41	0	0	0	0	0	0	0	0	0	0	SCHMIDT BREWING CO. 1
445547	930721	15 41	0	0	0	0	0	0	0	0	0	0	SCHMIDT BREWING CO. 2
445547	930721	85 41	0	0	0	0	0	0	0	0	0	0	SCHMIDT BREWING CO. 2
445547	930721	100 41	.3	18.6	1.4	15.4	26.1	15.0	15.0	15.0	0	10.0	SCHMIDT BREWING CO. 3
445552	930634	100 25	66.2	44.0	48.0	44.0	67.0	58.6	34.8	38.9	37.5	47.0	N.S.P. 2
445601	930624	100 25	0	0	0	11.7	43.0	33.5	35.4	34.7	36.5	35.0	N.S.P. 1
445601	930624	100 25	30.0	30.0	22.0	0	0	0	0	0	0	0	N.S.P. 1
445605	930447	100 41	156.4	0	0	0	0	0	0	0	0	0	PETERS SAUSAGE CO 1
445620	930639	100 41	17.0	21.0	17.0	13.8	15.9	17.0	14.0	14.0	14.0	14.0	CRESCENT CREAMERY 3
445624	930520	100 41	14.6	13.6	12.4	5.5	6.0	6.0	5.0	5.0	1.0	0	COCA-COLA BOTTLING 1
445630	930544	100 25	16.1	34.3	29.9	35.6	29.9	16.7	32.5	23.7	17.5	15.9	NORTHERN STATES POW 31
445630	930544	100 25	0	0	0	0	0	36.3	20.3	40.7	62.0	53.0	NORTHERN STATES POW 33
445633	930600	65 41	0	0	0	0	0	0	0	0	0	0	ST. PAUL MILK CO 1
445633	930600	35 41	0	0	0	0	0	0	0	0	0	0	ST. PAUL MILK CO 1
445633	930600	65 41	0	0	0	0	0	0	0	0	0	0	ST. PAUL MILK CO. 2

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued													
445633	930600	35 41	0	0	0	0	0	0	0	0	0	0	ST. PAUL MILK CO. 2
445636	930542	100 48	36.6	27.6	27.3	30.1	24.8	1.4	1.6	2.3	2.0	2.2	WEST PUBLISHING 1
445641	930614	65 41	0	0	0	0	0	0	0	0	0	0	CRESCENT CREAMERY 1
445641	930614	35 41	0	0	0	0	0	0	0	0	0	0	CRESCENT CREAMERY 1
445641	930614	95 41	0	0	0	0	0	0	0	0	0	0	CRESCENT CREAMERY 2
445641	930614	5 41	0	0	0	0	0	0	0	0	0	0	CRESCENT CREAMERY 2
445644	930537	100 25	35.0	17.0	20.0	15.0	9.6	9.0	5.0	5.0	5.0	5.0	N.S.P. 1
445645	930530	100 48	18.4	24.3	26.5	29.3	31.8	40.6	31.1	24.0	14.0	14.0	NW PUBLICATIONS 1
445646	930616	100 40	36.0	37.0	35.0	32.6	29.6	35.0	40.0	40.0	40.0	40.0	AMERICAN LINEN 3
445652	930523	100 40	58.6	58.5	50.0	46.7	46.7	50.0	20.0	20.0	20.0	20.0	BURLINGTON NORTHERN 1
445657	930533	100 41	0	0	0	0	0	0	0	0	0	0	SANITARY FARM DAIRY 1
445657	930533	100 41	68.0	71.0	26.1	25.6	23.2	14.2	30.6	31.7	25.0	21.8	LAND O LAKES 2
445700	930510	100 48	0	0	0	0	0	0	0	0	0	0	RAYETTE 1
445710	930548	100 41	15.5	16.6	18.0	13.0	13.9	14.2	14.5	14.4	12.1	12.0	AMERICAN BAKERIES 1
445712	930012	100 47	29.6	23.0	13.9	22.1	25.3	25.9	0	21.4	0	0	3-M RESEARCH 2
445712	930012	100 47	0	0	0	0	0	0	0	0	0	0	3-M RESEARCH 3
445712	930020	100 47	15.0	0	0	0	0	0	0	0	0	0	3-M RESEARCH 1
445716	924640	95 44	119.7	156.8	115.4	181.5	170.1	156.7	151.9	176.6	164.3	164.3	CEMSTONE 1
445716	924640	5 44	6.3	8.3	6.1	9.6	9.0	.1	9.3	9.4	7.7	7.6	CEMSTONE 1
445719	930909	65 41	12.5	5.9	0	0	0	0	0	0	0	0	PEPSI COLA BOTTLING 1
445719	930909	35 41	6.7	3.2	0	0	0	0	0	0	0	0	PEPSI COLA BOTTLING 1
445726	931114	65 41	42.3	42.3	42.3	42.3	42.3	42.3	29.3	29.3	29.3	0	MORRELL J. 1
445726	931114	35 41	22.8	22.8	22.8	22.8	22.8	22.8	15.8	15.8	15.8	0	MORRELL J. 1
445726	931114	100 41	65.0	65.0	65.0	65.0	65.0	65.0	45.0	45.0	45.0	0	MORRELL J. 2
445732	931116	35 41	1.8	1.2	.9	6.3	.5	.7	0	0	0	0	BARTUSCH PACKING 1
445732	931116	65 41	3.3	2.2	1.6	11.7	1.0	1.3	0	0	0	0	BARTUSCH PACKING 1
445732	931116	100 41	85.0	79.6	94.3	52.4	82.8	77.0	109.8	48.9	41.4	8.5	BARTUSCH PACKING 2
445733	931131	5 42	45.8	44.5	49.8	43.5	41.4	41.4	37.7	33.0	36.2	36.4	HOERNER WALDORF 1

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued													
445733	931131	95 42	869.4	846.2	846.2	826.2	786.2	786.2	716.3	626.3	688.7	691.2	HOERNER WALDORF 1
445733	931131	100 42	80.0	30.0	30.0	30.0	0	0	0	0	0	0	HOERNER WALDORF 2
445733	931131	100 42	968.0	990.5	988.7	961.3	939.7	942.6	1003.3	953.4	1056.7	921.9	HOERNER WALDORF 6
445734	931054	100 41	100.0	21.0	40.0	36.9	45.1	.2	.2	.3	.3	10.0	CEDAR SANITARY 1
445735	931130	5 42	34.0	17.5	18.1	17.1	16.5	15.0	8.7	6.4	7.4	7.8	HOERNER WALDORF 5
445735	931130	95 42	646.7	332.4	344.4	324.4	314.4	284.4	164.8	121.1	140.4	147.3	HOERNER WALDORF 5
445737	931146	25 42	102.2	87.0	87.0	79.9	69.1	62.0	57.1	3.5	3.6	.7	HOERNER WALDORF 4
445737	931146	70 42	286.1	243.6	243.6	223.6	193.6	173.6	159.8	9.8	10.0	2.0	HOERNER WALDORF 4
445737	931146	5 42	20.4	17.4	17.4	16.0	13.8	12.4	11.4	.7	.7	.1	HOERNER WALDORF 4
445742	931045	95 47	233.9	229.0	229.1	237.0	233.7	229.0	185.4	123.5	123.5	123.5	UNIVAC 1
445742	931045	5 42	12.3	12.1	12.1	12.5	12.3	12.1	9.8	6.5	6.5	6.5	UNIVAC 1
445745	930412	95 41	475.0	475.0	475.0	570.0	570.0	570.0	617.5	570.0	570.0	570.0	OLYMPIA BREWING 5
445745	930412	5 41	25.0	25.0	25.0	30.0	30.0	30.0	32.5	30.0	30.0	30.0	OLYMPIA BREWING 5
445746	930555	100 40	59.6	47.1	10.5	22.0	25.7	26.2	22.0	22.0	22.0	22.0	BURLINGTON NORTHERN 2
445748	930402	100 41	344.0	350.0	350.0	400.0	400.0	350.0	400.0	375.0	375.0	350.0	OLYMPIA BREWERY 9
445748	930402	100 41	344.0	350.0	350.0	400.0	400.0	350.0	400.0	375.0	375.0	350.0	OLYMPIA BREWERY 10
445748	930411	100 41	550.0	335.0	360.9	393.5	390.8	386.0	355.5	278.8	262.4	250.0	OLYMPIA BREWING 7
445749	930413	100 41	0	250.0	250.0	275.0	300.0	250.0	250.0	250.0	250.0	220.0	OLYMPIA BREWERY 11
445749	930415	100 41	550.0	500.0	500.0	550.0	600.0	550.0	550.0	550.0	510.0	500.0	OLYMPIA BREWING 8
445750	930415	95 41	0	0	0	0	0	0	0	0	0	0	OLYMPIA BREWING 3
445750	930415	5 41	0	0	0	0	0	0	0	0	0	0	OLYMPIA BREWING 3
445751	930343	100 47	228.4	232.0	239.2	357.8	193.8	138.5	235.0	143.7	235.0	235.0	3-M BUSH PLANT 4
445751	930723	100 40	78.4	70.7	69.3	68.7	3.4	8.0	0	0	0	0	BURLINGTON NORTHERN 1
445754	930343	100 47	239.4	163.0	150.1	199.1	160.7	163.0	150.0	150.0	150.0	150.0	3-M BUSH PLANT 2
445755	930343	100 47	100.6	143.0	134.6	147.4	141.3	143.0	140.0	140.0	140.0	140.0	3-M BUSH PLANT 1
445756	930351	100 47	224.7	328.0	307.1	305.3	386.0	315.3	315.0	315.0	315.0	315.0	3-M BUSH PLANT 3
445757	930417	100 41	300.0	250.0	250.0	250.0	250.0	250.0	225.0	225.0	195.0	185.0	OLYMPIA BREWING 6
445757	930515	35 40	2.1	1.4	1.4	1.4	1.4	1.4	0	0	0	0	BURLINGTON NORTHERN 1

Table 10.—Annual ground-water use for self-supplied industry—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
445757	930515	65	40	3.9	2.6	2.6	2.6	2.6	2.6	0	0	0	0	BURLINGTON NORTHERN 1
445758	930355	65	47	0	0	0	0	0	0	0	0	0	0	WHIRLPOOL CORP. 1
445758	930355	35	47	0	0	0	0	0	0	0	0	0	0	WHIRLPOOL CORP. 1
445759	930354	100	47	126.6	147.7	167.6	282.9	131.0	182.0	143.0	146.6	140.1	137.0	WHIRLPOOL CORP. 2
445759	930401	100	47	184.0	220.3	284.3	218.1	223.9	226.4	257.1	215.0	174.4	164.6	WHIRLPOOL CORP. 3
445803	930343	100	47	0	0	0	0	0	0	0	0	0	0	NORTHERN MALLEABLE I 1
445803	930343	100	47	86.5	71.4	51.9	71.6	68.9	31.8	21.6	32.4	20.6	23.1	NORTHERN MALLEABLE I 2
445806	931056	100	47	25.0	95.0	95.0	115.7	120.8	49.8	59.0	69.0	62.3	53.1	PLATE-O-MATIC 1
445811	930905	35	46	0	0	0	0	0	0	0	0	0	0	KOPPERS COMPANY 3
445811	930905	65	46	0	0	0	0	0	0	0	0	0	0	KOPPERS COMPANY 3
445812	930908	100	46	0	0	0	0	0	0	0	0	0	0	KOPPERS COMPANY 2
445812	930910	100	46	253.9	275.9	256.7	228.0	185.9	193.4	183.0	177.6	198.2	90.0	KOPPERS COMPANY 1
445814	930719	100	40	36.8	47.3	47.0	0	0	0	0	0	0	0	WOOD CO, JOHN 1
450016	930618	100	41	2.5	2.4	2.7	3.1	3.8	5.8	12.1	10.8	10.5	12.0	SCHROEDER MILK CO 1
450054	931201	100	41	51.3	69.0	54.7	52.0	51.0	34.3	36.5	46.5	64.3	48.1	OLD DUTCH FOODS 1
450224	931314	100	47	12.6	9.9	12.4	9.5	11.9	2.7	4.1	4.4	5.2	3.9	MENGEKCOH CO. 1
450224	931314	100	47	15.9	16.8	16.3	13.1	19.5	2.4	3.8	4.7	6.0	4.0	MENGEKCOH CO. 2
450450	930855	100	47	0	0	0	0	0	0	0	0	0	0	TWIN CITY ARSENAL 4
450450	930855	100	47	0	0	0	0	0	0	0	0	0	0	TWIN CITY ARSENAL 5
450508	931015	100	47	213.6	183.6	92.2	162.0	68.3	83.6	60.4	51.6	41.0	51.0	TWIN CITY ARSENAL 8
450514	931026	100	47	269.2	206.9	152.3	142.7	114.9	80.6	90.7	49.9	46.9	63.0	TWIN CITY ARSENAL 7
450520	931035	100	47	258.9	200.4	151.1	150.0	118.9	128.5	65.1	59.5	62.0	62.0	TWIN CITY ARSENAL 6
450521	931045	100	47	241.6	143.0	124.1	153.5	111.7	182.2	77.3	37.6	42.4	52.0	TWIN CITY ARSENAL 3
450528	931045	100	47	263.7	204.7	135.4	152.0	71.1	197.2	27.8	46.9	59.9	45.0	TWIN CITY ARSENAL 2
450535	931037	100	47	274.7	163.8	133.2	124.0	67.5	133.3	95.1	48.8	68.0	71.0	TWIN CITY ARSENAL 1
RAMSEY COUNTY TOTALS				11963.0	10691.9	10548.5	11072.1	10533.7	9980.6	9469.3	8561.7	8573.8	8599.7	

Table 10.—Annual ground-water use for self-supplied industry—Continued

Ivalues in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
SCOTT COUNTY													
443718	934515	100 48	81.3	94.9	87.6	77.9	55.6	79.0	90.0	90.0	90.0	90.0	NORWESCO PLASTICS 1
443740	934624	100 41	28.4	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 4
443740	934627	100 41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 3
443742	934625	100 41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 1
443742	934625	100 41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 2
443742	934627	100 41	0	0	0	0	0	0	0	0	0	0	MINN VALLEY MILK 1
443758	933456	100 41	0	0	0	0	0	0	0	0	0	0	NEW PRAGUE CREAMERY 1
443758	933456	100 41	41.2	45.4	41.4	38.6	32.2	39.0	40.0	40.0	40.0	40.0	NEW PRAGUE CREAMERY 2
444636	932047	100 48	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	CONTINENTAL MACHINES 1
444714	931949	100 41	0	0	0	0	0	0	0	0	0	0	CARGILL 1
444714	931949	100 41	403.2	403.2	403.2	403.2	403.2	403.0	397.4	367.2	396.9	319.9	CARGILL 2
444747	933221	15 41	30.6	24.6	16.5	17.7	17.4	19.8	28.8	22.2	11.7	36.3	RAHR MALTING 4
444747	933221	55 41	112.4	90.2	60.3	64.5	63.4	72.6	106.0	81.0	42.5	133.1	RAHR MALTING 4
444747	933221	30 41	61.3	49.2	32.9	35.2	34.5	39.6	57.9	44.1	23.2	72.6	RAHR MALTING 4
444748	933211	30 41	22.6	31.5	32.9	35.2	34.5	39.6	39.6	44.1	23.2	42.3	RAHR MALTING 1
444748	933211	55 41	20.7	28.9	60.3	64.5	63.4	72.6	72.8	81.0	42.5	77.4	RAHR MALTING 1
444748	933211	15 41	11.4	15.9	16.5	17.7	17.4	10.5	20.4	20.4	20.4	21.0	RAHR MALTING 1
444748	933211	30 41	22.6	31.5	32.9	35.2	34.5	21.0	40.5	40.5	40.5	42.3	RAHR MALTING 2
444748	933211	15 41	11.4	15.9	16.5	17.7	17.4	19.8	19.8	22.2	11.7	21.0	RAHR MALTING 2
444748	933211	55 41	20.7	28.9	60.3	64.5	63.4	38.5	74.4	74.4	74.4	77.4	RAHR MALTING 2
444749	933207	15 41	30.6	14.4	16.5	17.7	17.4	19.8	25.8	22.2	11.7	4.5	RAHR MALTING 3
444749	933207	30 41	61.1	28.7	32.9	35.2	34.5	39.6	51.8	44.1	23.2	9.3	RAHR MALTING 3
444749	933207	55 41	112.0	52.6	60.3	64.5	63.4	72.6	94.8	81.0	42.5	16.9	RAHR MALTING 3
444752	932807	100 48	57.1	58.0	57.4	70.0	66.3	66.2	68.3	79.9	97.3	68.5	MIDLAND GLASS CO 1
444752	932807	100 48	57.1	58.0	57.4	70.0	66.3	64.0	82.0	82.0	82.0	4.2	MIDLAND GLASS CO 2
SCOTT COUNTY TOTALS			1200.7	1086.8	1100.8	1144.3	1099.8	1132.2	1325.3	1251.3	1088.7	1091.7	

Table 10.--Annual ground-water use for self-supplied industry--Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY														
444718	925423	100	47	0	332.4	581.1	646.4	646.3	407.6	537.8	472.0	522.5	530.0	3M 6
444722	925442	100	47	305.6	289.6	279.3	302.4	251.2	144.9	305.6	275.0	284.7	275.0	3M 1
444725	925450	100	47	784.4	799.1	996.7	1044.7	1044.8	698.3	662.6	601.8	600.0	600.0	3M 5
444731	925442	100	47	284.2	297.1	306.7	335.7	352.7	315.1	305.6	340.1	374.6	340.1	3M 2
444731	925459	100	47	291.9	295.3	350.3	376.2	354.9	251.6	305.6	391.3	307.5	310.0	3M 4
444740	925447	100	47	367.1	365.6	414.3	396.6	414.4	278.7	305.6	236.3	297.3	350.0	3M 3
445110	930019	100	46	214.7	201.0	276.7	318.6	201.0	201.0	200.0	200.0	200.0	200.0	ASHLAND OIL CO 3
445110	930019	100	46	214.7	201.0	276.7	318.6	201.0	201.0	200.0	200.0	200.0	200.0	ASHLAND OIL CO 4
445110	930019	100	46	214.7	201.0	276.7	318.6	201.0	201.0	200.0	200.0	200.0	200.0	ASHLAND OIL CO 5
445110	930019	100	46	0	0	225.0	225.0	225.0	225.0	200.0	200.0	200.0	200.0	ASHLAND OIL 10
445117	924727	100	87	1.5	6.1	2.0	2.0	.1	.2	1.0	1.0	.6	1.0	AFTON ALPS 1
445117	924727	100	87	30.0	33.9	34.0	34.0	39.5	39.5	40.5	43.1	47.0	47.0	AFTON ALPS 2
445150	925343	100	47	280.0	280.0	331.0	265.9	242.2	280.0	350.0	350.0	350.0	428.8	3-M WOODBURY 1
445150	925343	100	47	20.0	20.0	25.8	16.2	17.4	20.0	10.0	10.0	10.0	10.0	3-M WOODBURY 1
445150	925343	100	47	110.0	110.0	144.7	113.8	101.0	148.0	142.9	129.2	124.1	82.2	3-M WOODBURY 2
445150	925343	100	47	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	10.0	10.0	3-M WOODBURY 2
445150	925343	100	47	242.0	242.0	356.0	293.8	75.7	379.3	385.7	376.8	385.2	328.0	3-M WOODBURY 3
445150	925343	100	47	38.0	38.0	54.9	47.6	10.2	38.0	10.0	10.0	10.0	10.0	3-M WOODBURY 3
445150	925343	100	47	0	0	0	0	306.7	426.0	650.0	574.9	704.1	667.2	3-M WOODBURY 4
445150	925343	100	47	0	34.0	39.8	27.2	34.5	34.0	10.0	10.0	10.0	10.0	3-M WOODBURY 4
445253	930145	15	40	0	0	0	0	0	0	0	0	0	0	NEWPORT COLD STORAGE 1
445253	930145	85	40	0	0	0	0	0	0	0	0	0	0	NEWPORT COLD STORAGE 1
445253	930145	15	40	0	6.0	6.0	6.0	6.0	6.0	13.5	13.5	13.5	21.1	NEWPORT COLD STORAGE 2
445253	930145	85	40	0	34.0	34.0	34.0	34.0	34.0	76.5	76.5	76.5	119.3	NEWPORT COLD STORAGE 2
445253	930145	15	40	39.4	39.4	27.6	27.6	12.9	11.3	22.5	22.5	22.5	22.5	NEWPORT COLD STORAGE 3
445253	930145	85	40	223.4	223.4	156.4	156.4	73.1	64.3	127.5	127.5	127.5	127.5	NEWPORT COLD STORAGE 3
445703	924816	5	44	4.0	3.8	3.6	3.9	3.5	3.8	3.8	3.8	3.8	3.8	CEMSTONE 1
445703	924816	95	44	76.0	71.3	67.8	73.7	66.8	71.3	71.3	71.3	71.3	71.3	CEMSTONE 1

Table 10.—Annual ground-water use for self-supplied industry—Continued

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY—Continued													
445816	925225	100 47	22.8	25.0	29.7	22.4	24.0	25.0	25.0	44.4	25.0	25.0	3M
445816	925225	100 47	30.7	20.0	7.2	20.2	22.0	30.0	28.0	63.4	20.0	20.0	3M
450127	924634	15 48	18.9	17.8	19.0	24.1	25.0	25.5	29.9	28.8	29.1	29.1	ANDERSON CORP
450127	924634	85 48	107.1	100.7	107.9	136.4	141.5	144.7	169.7	162.9	165.0	165.0	ANDERSON CORP
450127	924634	15 48	0	0	0	0	0	0	0	0	0	6.3	ANDERSON CORP
450127	924634	85 48	0	0	0	0	0	0	0	0	0	35.0	ANDERSON CORP
450153	924638	100 25	28.6	28.1	13.7	18.3	21.4	17.4	21.4	15.8	26.8	15.0	NORTHERN STATES POW 11
450153	924638	100 25	20.6	22.5	19.0	14.2	18.0	21.9	21.4	35.9	20.4	42.3	NORTHERN STATES POW 12
450326	924822	15 40	8.0	18.2	17.6	9.9	2.1	9.9	2.3	2.3	2.3	2.3	MAPLE ISLAND
450326	924822	85 40	45.3	102.9	99.4	56.1	11.6	56.1	12.8	12.8	12.8	12.8	MAPLE ISLAND
450550	925525	100 40	53.4	60.5	34.2	12.5	14.0	0	0	0	0	0	ASHBACH AGGREGATES
450553	925525	100 40	0	0	0	0	0	0	0	0	0	0	J.W. CRAIG CO
451512	924602	85 44	23.2	14.5	14.5	13.0	16.7	14.5	17.0	17.0	17.0	17.0	BARTON CONTRACTING
451512	924602	15 44	4.1	2.6	2.6	2.3	2.9	2.6	3.0	3.0	3.0	3.0	BARTON CONTRACTING
WASHINGTON CO TOTALS			4113.3	4545.8	5640.9	5723.3	5224.1	4836.5	5478.5	5332.9	5474.1	5537.6	
TWIN CITIES TOTALS													
TWIN CITIES TOTALS			32680.3	30802.1	30841.0	31265.4	29077.1	26506.9	26012.4	24173.9	24394.9	22498.0	

Table 11.--Annual ground-water use for commercial air-conditioning

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANKOA COUNTY														
451256	932309	100	32	16.0	5.0	5.0	5.0	5.0	5.0	2.0	2.0	0	0	ANKOA STATE HOSP 2
451256	932309	100	32	0	0	0	0	0	0	0	0	0	0	ANKOA STATE HOSP 2
451256	932309	100	32	36.4	32.4	33.9	33.5	27.6	27.8	15.0	0	0	0	ANKOA STATE HOSP 3
451256	932309	100	32	0	0	0	0	0	0	0	0	0	0	ANKOA STATE HOSP 1
451256	932309	100	32	.2	.2	.2	.2	.2	.2	0	0	0	0	ANKOA STATE HOSP 4
ANKOA COUNTY TOTALS				52.6	37.6	39.1	38.7	32.8	33.0	17.0	2.0	0	0	
DAKOTA COUNTY														
444339	925008	100	32	15.0	20.0	20.0	20.0	20.0	20.0	2.0	2.0	2.0	2.0	HASTINGS STATE HOSPI 3
444339	925008	15	32	7.5	6.0	6.0	6.0	8.8	6.0	4.5	4.5	4.5	4.5	HASTINGS STATE HOSP 2
444339	925008	85	32	42.5	34.0	34.0	34.0	49.8	34.0	25.5	25.5	25.5	25.5	HASTINGS STATE HOSIP 2
445050	931102	100	31	20.0	20.0	20.0	20.0	20.0	20.3	20.3	20.3	.7	.7	LULL ENGINEERING 1
445241	930154	100	31	19.7	20.0	20.4	19.6	7.1	6.6	21.8	15.5	23.2	25.0	STANDARD BUILDING 1
445417	930737	100	31	19.4	26.0	35.1	26.0	19.0	22.4	21.7	9.6	17.1	14.3	ECONOMIC LABORATORY 1
DAKOTA COUNTY TOTALS				124.1	126.0	135.5	125.6	124.7	109.3	95.8	77.4	73.0	72.0	
HENNEPIN COUNTY														
444952	931828	100	31	75.1	73.2	73.1	71.5	60.6	61.7	65.7	63.9	81.0	75.0	JOHN DEERE CO 1
445121	931351	100	31	0	0	0	0	4.5	8.9	11.4	13.2	19.4	22.8	CONTROL DATA CORP 1
445127	931327	100	31	0	0	0	5.7	37.8	54.3	63.3	49.0	50.0	53.0	LANDMARK DEVELOPMENT 1
445139	932600	100	31	8.5	11.1	8.3	17.2	17.9	18.1	22.9	22.4	28.7	25.0	ROSEMOUNT ENGINEERIN 2

Table 11.—Annual ground-water use for commercial air-conditioning—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445243	931939	100 31	116.0	108.2	128.8	42.0	153.0	108.0	62.0	62.0	64.9	58.3	DONALDSON'S 1
445244	931211	100 31	232.2	260.3	233.2	271.3	198.7	203.3	130.8	279.8	293.0	226.5	NORTHWEST ORIENT 2
445246	931217	100 31	232.2	221.0	216.1	272.1	295.0	126.6	231.9	247.9	268.2	230.1	NORTHWEST ORIENT 1
445251	931931	100 31	108.1	117.0	125.7	109.1	117.0	96.9	111.1	102.6	91.0	66.7	DAYTON'S 4
445251	931931	100 31	0	0	0	0	0	0	0	0	0	0	DAYTONS 2
445251	931931	100 31	93.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	DAYTONS 3
445251	931931	100 31	72.9	23.0	26.6	19.7	23.0	23.0	25.0	25.0	25.0	25.0	DAYTONS 1
445300	931223	100 31	80.0	157.0	126.6	117.6	100.5	90.0	100.0	100.0	100.0	16.9	MPLS-ST. PAUL INT. AI 1
445300	931223	100 31	189.6	51.0	90.0	90.0	90.0	195.0	173.6	203.8	201.1	152.5	MPLS-ST. PAUL INT. AI 2
445302	931935	100 32	85.2	92.2	86.9	108.2	101.5	127.2	178.2	102.8	113.9	109.6	SOUTHDALE MEDICAL 1
445307	931934	100 32	88.0	79.0	79.0	79.0	79.0	79.0	44.0	44.0	44.0	44.0	FAIRVIEW HOSP 1
445307	931934	100 32	0	0	0	0	0	44.0	44.0	44.0	44.0	44.0	FAIRVIEW HOSP. 2
445508	932403	100 31	113.3	96.0	96.0	96.0	91.1	92.6	81.7	73.4	89.6	86.6	RED OWL STORE 1
445646	932146	100 32	139.8	164.9	153.7	171.7	138.7	196.4	236.2	237.4	195.6	223.0	METHODIST HOSPITAL 1
445651	931905	100 31	90.8	82.4	69.4	69.4	39.1	32.8	43.2	48.4	51.3	43.4	AMERICAN HARDWARE MU 1
445657	931538	100 31	14.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	SEARS, ROEBUCK & CO 1
445714	931544	100 32	0	0	0	0	0	0	0	0	0	0	N.W. HOSPITAL 1
445714	931544	100 32	80.9	103.7	106.4	127.5	128.1	108.8	104.5	101.7	108.2	56.8	N.W. HOSPITAL 3
445714	931544	100 32	80.9	51.8	53.2	63.8	64.0	99.8	102.3	103.1	77.9	188.3	N.W. HOSPITAL 2
445733	931550	100 32	46.5	51.2	42.7	41.4	32.8	42.2	35.2	1.5	7.5	0	MT. SINAI HOSPITAL 1
445804	931323	100 32	183.9	146.2	35.5	30.0	30.0	15.6	11.3	10.0	10.0	10.0	ST. MARY'S HOSPITAL 2
445804	931413	25 32	5.6	4.2	3.7	3.7	4.5	3.9	2.8	3.1	2.4	1.1	ST. MARY'S HOSPITAL 1
445804	931413	60 32	13.5	10.1	8.8	9.0	10.8	9.3	6.8	7.5	5.7	2.6	ST. MARY'S HOSPITAL 1
445804	931413	10 32	2.2	1.7	1.5	1.5	1.8	1.6	1.1	1.2	.9	.4	ST. MARY'S HOSPITAL 1
445804	931413	5 32	1.1	.8	.7	.7	.9	.8	.6	.6	.5	.2	ST. MARY'S HOSPITAL 1
445806	931935	100 31	35.8	52.0	67.1	53.9	52.0	52.0	36.2	3.5	12.0	26.0	PRUDENTIAL INSURANCE 2
445807	931654	100 32	0	0	0	0	0	0	0	0	0	0	EITTEL HOSPITAL 1
445807	931654	100 32	23.5	25.5	22.6	5.8	8.5	16.0	15.0	15.0	15.0	15.0	EITTEL HOSPITAL 2

Table 11.—Annual ground-water use for commercial air-conditioning—Continued
 [Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445808	931935	100 31	35.8	52.0	67.1	53.9	52.0	52.0	36.0	13.5	12.0	26.0	PRUDENTIAL INSURANCE 1
445815	931535	100 32	18.2	0	0	0	0	0	5.0	5.0	5.0	5.0	SWEDISH HOSP 1
445817	931612	100 32	137.0	152.4	104.1	74.2	71.3	45.3	48.1	49.9	50.4	30.4	CURTIS HOTEL 2
445817	931612	100 32	53.0	30.0	46.0	45.9	47.0	44.3	49.4	43.8	51.7	46.8	CURTIS HOTEL 1
445817	931616	30 31	0	0	0	0	0	0	0	0	0	0	DONALDSON'S 1
445817	931616	65 31	0	0	0	0	0	0	0	0	0	0	DONALDSON'S 1
445817	931616	5 31	0	0	0	0	0	0	0	0	0	0	DONALDSONS 1
445817	931616	70 31	57.9	75.6	70.0	101.7	91.7	80.5	81.9	82.6	85.4	75.6	DONALDSONS 2
445817	931616	5 31	4.1	5.4	5.0	7.3	6.6	5.8	5.8	5.9	6.1	5.4	DONALDSON'S 2
445817	931616	25 31	20.7	27.0	25.0	36.3	32.8	28.8	29.3	29.5	30.5	27.0	DONALDSONS 2
445818	931532	100 32	84.9	115.0	67.6	82.0	63.3	82.0	0	0	0	0	ST. BARNABAS HOSP 1
445821	931635	100 31	2.0	1.8	2.0	.9	0	0	0	0	0	0	YWCA 1
445825	932150	100 31	63.0	61.9	63.8	62.4	62.4	57.9	65.0	66.0	67.1	64.3	PRODUCT DESIGN & ENG 1
445826	931627	100 31	0	0	0	0	0	0	0	0	0	0	ROTHSCHILD YOUNG-QUI 1
445826	931627	100 31	26.6	25.1	27.5	27.3	25.0	31.5	14.6	28.4	22.2	25.0	ROTHSCHILD YOUNG-QUI 2
445827	931607	100 31	50.8	53.2	51.5	52.8	52.2	52.0	45.0	45.0	45.0	45.0	LUTHERAN BROTHERHOOD 1
445827	931609	100 31	61.9	107.0	138.2	97.3	85.8	120.8	178.7	108.7	130.0	130.0	NORTHSTAR CENTER 1
445828	931612	100 31	90.2	92.1	16.1	.5	1.7	5.8	64.3	6.6	3.5	25.0	BAKER PROP. 3
445828	931612	100 31	103.8	143.9	63.6	128.1	102.2	101.2	66.8	30.0	23.5	30.0	BAKER PROP. 1
445830	931543	100 31	210.3	176.0	135.5	.7	0	0	0	0	0	0	MPLS STAR & TRIBUNE 1
445830	931606	100 31	261.2	243.0	205.3	187.2	337.2	243.0	205.0	205.0	205.0	205.0	NORTHSTAR CENTER 2
445830	931614	100 31	180.9	217.0	56.5	0	0	.3	12.7	20.0	24.3	20.0	BAKER PROP. 2
445830	931623	100 31	82.6	74.8	73.3	76.3	78.0	89.8	90.0	87.5	59.6	65.4	MEDICAL ARTS BLDG 2
445830	931623	100 31	0	0	0	0	0	0	0	0	0	0	MEDICAL ART BLDG 1
445831	931633	30 31	6.4	5.6	5.3	5.9	6.1	6.0	0	0	0	0	Y.M.C.A. 1
445831	931633	65 31	13.8	12.1	11.5	12.7	13.3	13.0	0	0	0	0	Y.M.C.A. 1
445831	931633	5 31	1.1	.9	.9	1.0	1.0	1.0	0	0	0	0	Y.M.C.A. 1
445833	931618	100 31	80.1	82.5	72.0	60.3	38.6	58.9	56.9	.5	0	0	NORTHWESTERN NATL BA 1

Table 11.—Annual ground-water use for commercial air-conditioning—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445833	931618	100 31	0	0	0	0	0	0	0	0	20.0	44.6	NORTHWESTERN NAT'L BA 3
445834	931606	100 31	50.3	46.9	45.2	45.5	33.5	32.3	57.9	29.2	34.0	21.0	1ST NAT'L BANK 2
445834	931606	100 31	50.3	46.9	45.2	45.5	33.5	32.3	57.9	29.2	34.0	21.0	1ST NAT'L BANK 1
445834	931606	100 31	88.3	110.0	123.4	147.3	60.4	110.0	163.0	163.0	163.0	163.0	NORTHSTAR CENTER 3
445834	931606	100 31	50.3	46.9	45.2	45.5	33.5	32.3	57.9	29.2	34.0	21.0	1ST NAT'L BANK 3
445834	931617	100 31	241.1	185.3	188.8	214.9	291.5	200.0	174.7	333.2	167.4	95.0	NORTHWESTERN NAT'L BA 2
445834	931625	100 31	196.0	236.0	236.0	236.0	235.7	236.0	230.0	230.0	230.0	230.0	DAYTON'S 2
445834	931625	5 31	4.0	2.0	2.0	2.0	2.0	3.7	4.0	3.8	3.9	4.1	DAYTON'S 1
445834	931625	95 31	76.0	38.0	38.0	38.0	38.1	70.0	75.0	71.8	74.7	78.0	DAYTON'S 1
445834	931625	95 31	9.9	1.9	1.9	1.9	1.5	14.6	5.7	0	4.7	4.0	DAYTON'S 3
445834	931625	5 31	.5	.1	.1	.1	.1	.8	.3	0	.2	.2	DAYTON'S 3
445835	931639	95 31	29.6	28.5	28.5	28.5	30.8	28.5	23.8	23.8	23.8	23.8	ORPHEUM THRE 1
445835	931639	5 31	1.6	1.5	1.5	1.5	1.6	1.5	1.3	1.3	1.3	1.3	ORPHEUM THRE 1
445836	931602	100 31	28.9	15.7	53.8	62.8	42.8	32.0	46.6	24.6	27.0	41.8	N.W. BELL TELEPHONE 3
445836	931602	95 31	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N.W. BELL TELEPHONE 1
445836	931602	5 31	0	0	0	0	0	0	0	0	0	0	N.W. BELL TELEPHONE 1
445836	931602	95 31	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N.W. BELL TELEPHONE 2
445836	931602	5 31	0	0	0	0	0	0	0	0	0	0	N.W. BELL TELEPHONE 2
445836	931614	100 31	92.8	98.4	89.7	89.7	40.4	41.0	43.6	44.4	46.4	42.7	FARMERS & MECHANICS 1
445836	931619	100 31	10.6	14.3	14.5	0	0	0	0	0	0	0	F.W. WOOLWORTH 1
445837	931611	100 31	51.0	49.0	40.3	49.6	40.7	45.0	30.0	30.0	30.0	30.0	MN. FEDERAL BLDG. 1
445838	931611	95 31	30.4	20.6	22.6	26.3	25.0	23.8	16.8	16.6	17.3	15.7	SOO LINE BLDG 1
445838	931611	5 31	1.6	1.1	1.2	1.4	1.3	1.3	.9	.9	.9	.8	SOO LINE BLDG 1
445838	931635	100 31	2.2	1.7	1.6	2.6	47.7	24.8	1.6	2.0	1.6	2.8	NW NAT'L BANK LINCOLN 1
445839	931606	100 32	47.8	36.0	40.1	21.0	45.4	36.0	30.0	30.0	30.0	30.0	MPLS ATHLETIC CLUB 2
445839	931606	100 32	21.0	28.0	28.0	34.8	28.0	28.0	30.0	30.0	30.0	30.0	MPLS ATHLETIC CLUB 1
445840	931549	100 31	35.1	42.2	47.0	48.2	38.7	39.4	40.4	35.5	52.9	43.0	MPLS GRAIN EXCHANGE 1
445840	931618	100 31	12.8	12.9	18.6	20.7	19.5	22.0	22.0	14.9	27.2	25.0	610 CORPORATION 1

Table 11.—Annual ground-water use for commercial air-conditioning—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445841	931558	100 31	22.5	20.3	19.9	20.6	21.2	20.0	20.0	20.0	20.0	20.0	MPLS BLDG OF PUB. WE 1
445841	931611	100 31	3.0	.9	.5	14.3	1.0	1.0	3.0	3.0	3.0	3.0	NATIONAL CITY BANK 1
445841	931611	100 31	75.1	93.0	94.5	55.0	154.4	174.8	209.6	10.4	201.4	5.8	NATIONAL CITY BANK 2
445841	931617	100 31	20.0	0	0	0	0	0	0	0	0	0	610 CORPORATION 1
445841	931620	100 31	10.9	10.0	7.8	13.0	8.8	11.5	9.3	6.5	3.5	0	JUSTER BROS 1
445841	931625	100 32	26.7	25.3	23.1	0	0	0	0	0	0	0	FORUM CAFETERIA 1
445842	931622	95 32	12.2	12.3	17.7	19.7	18.5	0	0	0	0	0	DYCKMAN HOTEL 2
445842	931622	5 32	.6	.6	.9	1.0	1.0	0	0	0	0	0	DYCKMAN HOTEL 1
445842	931622	100 32	20.0	13.2	9.4	10.7	15.0	12.0	0	0	0	0	DYCKMAN HOTEL 1
445845	931611	95 31	0	0	0	0	0	0	0	0	0	0	POWERS DRY GOODS 1
445845	931611	5 31	0	0	0	0	0	0	0	0	0	0	POWERS DRY GOODS 1
445845	931611	100 31	61.2	55.7	70.0	65.0	65.3	67.9	70.3	65.0	65.0	44.3	POWERS DRY GOODS 2
445845	931617	5 31	0	0	0	0	0	0	0	0	0	0	MPLS CHAMBER OF COMM 2
445845	931617	95 31	0	0	0	0	0	0	0	0	0	0	MPLS CHAMBER OF COMM 2
445845	931617	100 31	0	0	0	0	0	0	0	0	0	0	MPLS CHAMBER OF COMM 1
445845	931623	100 31	67.0	57.2	52.9	55.9	53.4	61.2	68.5	12.9	52.3	57.4	MFG. HANOVER TRUST-P 1
445847	931612	100 31	25.3	24.8	47.5	52.0	40.7	51.4	48.2	54.0	60.1	69.0	N.S.P BLDG 2
445847	931612	100 31	28.4	23.6	46.3	55.6	61.0	56.2	55.0	51.8	64.3	70.2	N.S.P BUILDING 1
445848	931605	100 31	0	0	0	55.3	96.5	107.1	36.8	232.5	15.3	40.0	FEDERAL RESERVE BANK 3
445848	931616	5 32	.4	.1	.3	.3	.3	.3	0	0	0	0	ANDREWS HOTEL 1
445848	931616	95 32	6.7	1.9	4.8	4.8	4.8	4.8	1.0	1.0	1.0	1.0	ANDREWS HOTEL 1
445852	931549	95 31	120.4	104.0	0	0	0	0	0	0	0	0	POST OFFICE BLDG 1
445852	931549	5 31	6.3	5.5	0	0	0	0	0	0	0	0	POST OFFICE BLDG 1
445853	931603	100 31	75.0	93.2	94.5	55.4	50.0	0	0	0	0	0	FEDERAL RESERVE BANK 1
445853	931603	100 31	0	0	141.0	235.7	145.8	14.9	.4	0	0	80.0	FEDERAL RESERVE BANK 2
445854	931607	100 32	38.8	35.7	29.9	27.2	31.0	31.0	15.0	15.0	15.0	15.0	SOULS HARBOR 2
445855	931546	100 31	68.0	68.0	55.8	70.6	34.0	38.7	46.0	70.9	81.2	86.6	N.W. NATIONAL LIFE 1
445855	931656	100 31	20.4	42.0	42.0	42.0	42.0	42.0	45.0	45.0	45.0	45.0	GAMBLE ROBINSON 1

Table 11.—Annual ground-water use for commercial air-conditioning—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
445856	931607	100 32	3.0	3.0	3.0	2.0	20.0	20.0	15.0	15.0	15.0	15.0	SOULS HARBOR 1
445859	931629	100 31	20.4	21.0	21.2	20.8	20.9	0	0	0	0	0	GAMBLE ROBINSON 2
445932	931342	100 31	32.7	30.0	35.1	31.0	27.9	31.0	25.0	25.0	25.0	25.0	BROWN AND BIGELOW 1
HENNEPIN COUNTY TOTALS			5758.0	5650.0	5201.7	5171.2	5161.2	4935.8	4883.8	4673.1	4660.5	4281.8	
RAMSEY COUNTY													
445503	931118	100 31	22.5	23.3	24.1	24.7	32.6	25.3	23.2	28.3	29.1	21.1	POWERS DRY GOODS 1
445532	931050	30 32	18.2	13.4	17.5	19.6	17.6	17.1	15.9	15.9	15.9	15.9	ST. CATHERINES 1
445532	931050	5 32	3.0	2.2	2.9	3.3	2.9	2.9	2.7	2.7	2.7	2.7	ST. CATHERINES 1
445532	931050	65 32	39.5	29.0	38.0	42.5	38.1	37.1	34.5	34.5	34.5	34.5	ST. CATHERINES 1
445634	930630	100 32	157.4	154.5	155.8	177.5	159.2	185.7	239.4	214.7	223.7	203.7	ST. LUKES HOSPITAL 1
445637	930547	35 31	2.1	0	0	0	0	0	0	0	0	0	JJ HILL REFERENCE LI 1
445637	930547	65 31	3.9	0	0	0	0	0	0	0	0	0	JJ HILL REFERENCE LI 1
445638	930543	100 31	136.8	145.1	112.0	93.9	83.7	109.0	100.0	100.0	108.4	100.0	N.W. BELL TELEPHONE 1
445639	930537	100 31	5.0	7.0	7.0	7.0	7.0	7.0	14.0	14.0	14.0	14.0	ST. PAUL CITY HALL 1
445640	930559	100 31	21.6	12.8	20.0	29.1	18.3	12.1	12.0	12.0	12.8	24.7	ST. PAUL CIVIC CENTER 1
445641	930537	100 32	79.0	52.0	52.0	52.0	52.0	52.0	40.0	40.0	40.0	40.0	LOWRY HOTEL 1
445641	930540	100 31	10.0	0	0	0	0	0	0	0	0	0	LOWRY MEDICAL 1
445642	930528	100 32	90.0	110.0	110.0	116.7	97.6	116.9	62.2	89.3	80.2	116.2	RADISSON, ST. PAUL 1
445642	930532	100 31	26.0	35.3	37.9	37.9	35.2	41.6	43.6	34.7	31.6	20.3	DEGREE OF HONOR 1
445642	930544	35 32	0	0	0	0	0	0	0	0	0	0	ST. PAUL HOTEL 1
445642	930544	100 32	17.0	14.0	14.0	14.0	14.0	14.0	12.0	12.0	12.0	12.0	ST. PAUL HOTEL ASSN. 2
445642	930544	65 32	0	0	0	0	0	0	0	0	0	0	ST. PAUL HOTEL 1
445642	935027	100 32	9.8	7.9	11.1	11.2	8.1	7.8	7.5	7.4	15.3	12.6	Y.W.C.A. 1
445644	930628	100 31	1.0	1.0	1.0	1.0	1.0	2.2	2.7	2.8	2.7	1.5	ARCHDIOCEASE OF ST P 1
445645	930532	100 32	14.6	16.1	11.1	12.7	12.9	13.0	16.0	16.0	16.0	16.0	ST PAUL ATHLETIC CLU 1

Table 11.—Annual ground-water use for commercial air-conditioning—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
445645	930539	100	31	130.0	156.6	149.0	160.4	132.9	145.3	86.9	127.4	101.4	99.2	ECONOMICS LAB
445646	930522	25	31	0	0	0	0	0	0	0	0	0	0	GUARDIAN BLDG.
445646	930522	100	31	9.2	14.0	14.2	12.7	15.0	1.9	10.0	10.0	10.0	10.0	RAMSEY HILL PROP.
445646	930522	5	31	0	0	0	0	0	0	0	0	0	0	GUARDIAN BLDG.
445646	930522	70	31	0	0	0	0	0	0	0	0	0	0	GUARDIAN BLDG.
445646	930535	100	31	11.6	10.1	10.4	9.0	5.8	6.0	6.0	6.0	6.0	6.0	MN. MUTUAL LIFE INS.
445648	930545	100	31	31.4	24.3	23.9	24.2	21.5	22.6	24.6	16.2	14.1	10.6	UNITED PROP. INC.
445650	930520	100	31	18.2	14.3	14.1	16.0	12.2	10.5	12.6	9.0	9.1	17.5	ENDICOTT BLDG
445650	930533	100	31	68.6	84.4	92.8	79.9	77.6	71.0	72.5	64.5	73.0	78.0	N.W. NATIONAL BANK
445651	930508	100	31	13.0	3.0	7.5	.6	.2	0	0	0	0	0	ST. PAUL UNION DEPOT
445651	930531	100	31	57.6	77.2	88.5	72.2	54.7	20.0	.4	34.0	24.6	.4	AMERICAN NATIONAL BA
445651	930541	5	31	5.6	5.1	4.9	5.5	3.9	3.5	4.2	3.9	3.0	2.2	DAYTON'S
445651	930541	95	31	105.1	96.2	93.8	104.9	73.6	66.7	80.2	74.4	57.1	42.0	DAYTON'S
445653	930540	100	31	23.4	22.0	16.3	26.1	24.4	22.0	20.0	20.0	0	0	W.T. GRANT CO.
445653	930601	100	32	161.0	162.0	152.0	160.0	158.0	158.0	168.4	171.5	169.5	171.7	ST. JOSEPH'S HOSPITAL
445654	930523	100	31	41.0	34.6	30.8	22.6	29.3	31.4	31.8	30.9	23.2	15.1	FARM CREDIT BANKS
445654	930613	100	32	99.0	86.9	86.3	108.5	152.0	108.0	112.7	86.4	136.8	0	MILLER HOSPITAL
445655	930538	35	31	4.3	4.1	4.1	3.7	4.0	3.9	3.5	3.5	3.5	3.5	LANE BRYANT
445655	930538	65	31	8.0	7.7	7.5	7.0	7.4	7.2	6.5	6.5	6.5	6.5	LANE BRYANT
445657	930537	5	31	.4	.3	.4	.2	.2	.2	.2	0	0	0	DONALDSONS
445657	930537	100	31	95.9	85.7	62.1	76.1	49.7	50.0	30.0	30.0	24.0	25.4	DONALDSONS
445657	930537	95	31	8.5	6.2	8.2	4.0	4.5	4.5	4.5	0	0	0	DONALDSONS
445658	930529	35	31	0	0	0	0	0	0	0	0	0	0	EMPORIUM
445658	930529	100	31	80.0	77.3	93.2	137.3	89.1	95.0	60.0	60.0	60.0	60.0	EMPORIUM
445658	930529	65	31	0	0	0	0	0	0	0	0	0	0	EMPORIUM
445712	930936	100	31	20.0	10.0	9.3	6.3	5.7	6.0	6.0	6.0	6.0	6.0	MONTGOMERY WARD
445714	931016	100	32	28.5	22.7	10.2	21.7	8.9	16.0	5.0	5.0	5.0	5.0	MIDWAY HOSPITAL
445716	930953	100	31	52.0	21.8	22.8	21.9	18.7	21.2	24.6	22.3	22.0	2.2	MURPHY DRY GOODS ^c

Table 11.—Annual ground-water use for commercial air-conditioning—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
445717	930919	100	31	25.0	14.3	6.7	15.0	25.0	15.0	9.0	9.0	9.0	9.0	BROWN AND BIGELOW 1
445725	930536	100	32	156.5	148.5	145.8	139.9	114.5	137.0	154.2	67.5	162.7	105.3	ST. PAUL RAMSEY HOSP 1
445725	930536	100	32	66.1	9.4	17.6	28.7	13.4	33.2	26.8	68.1	12.6	47.0	ST. PAUL RAMSEY HOSP. 2
445727	931049	100	31	64.8	68.4	69.7	76.3	38.1	25.6	27.9	22.2	24.0	3.2	MUTUAL SERVICE INSUR 1
445730	930608	100	32	55.5	32.6	46.8	38.7	7.2	5.3	5.9	4.9	4.0	6.0	BETHESDA LUTHERAN 1
445957	930127	30	32	3.3	3.1	4.0	4.1	2.9	3.6	3.6	3.6	3.6	3.6	RAMSEY CO. NURSING 1
445957	930127	65	32	7.2	6.7	8.6	8.8	6.2	7.8	7.8	7.8	7.8	7.8	RAMSEY CO. NURSING 1
445957	930127	5	32	.6	.5	.7	.7	.5	.6	.6	.6	.6	.6	RAMSEY CO. NURSING 1
450045	931222	100	31	128.1	118.4	109.4	68.0	53.6	33.0	35.5	36.5	43.5	31.9	SPACE CENTER INC. 1
450403	930853	100	31	44.4	43.3	29.1	28.3	21.4	31.0	20.0	20.0	20.0	14.7	CONTROL DATA CORP 2
450403	930853	100	31	27.5	27.2	29.1	28.3	21.4	23.1	18.9	11.3	14.3	14.7	CONTROL DATA CORP 1
RAMSEY COUNTY TOTALS				2308.7	2122.5	2084.2	2160.7	1833.7	1829.8	1706.5	1663.3	1695.8	1440.3	
TWIN CITIES TOTALS														
TWIN CITIES TOTALS				8243.4	7936.1	7460.5	7496.2	7152.4	6907.9	6703.1	6415.8	6429.3	5794.1	

Table 12.—Annual ground-water use for irrigation

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY													
450925	930130	100 97	0	0	0	0	0	0	0	5.0	5.0	8.1	LACASSE 1
451040	931257	100 97	0	0	0	0	0	0	0	0	5.0	26.4	HENTGES 1
451141	931234	85 97	0	0	0	0	0	0	0	0	5.0	10.2	HENTGES 1
451141	931234	15 97	0	0	0	0	0	0	0	0	1.8	1.8	HENTGES 1
451205	931707	100 81	70.0	38.9	40.0	40.0	40.0	40.0	20.0	20.0	20.0	59.0	COON RAPIDS GOLF COU 1
451205	932110	100 97	0	10.0	10.0	10.0	10.0	10.0	20.0	20.0	20.0	20.0	LEE 1
451208	931340	85 97	0	0	0	0	0	0	0	4.9	4.9	4.9	GILLJUND 1
451208	931340	15 97	0	0	0	0	0	0	0	.9	.9	.9	GILLJUND 1
451243	932413	100 81	52.6	43.0	40.0	33.2	55.3	53.4	109.7	61.6	50.7	38.2	GREENHAVEN GOLF COUR 1
451320	931507	15 81	0	4.8	4.8	4.8	4.8	4.8	7.7	7.7	7.7	7.7	MAJESTIC OAKS GOLF C 1
451320	931507	85 81	0	27.2	27.2	27.2	27.2	27.2	43.4	43.4	43.4	43.4	MAJESTIC OAKS GOLF C 1
451512	931205	85 97	0	0	0	0	0	0	0	6.8	6.8	.6	HOGDAL 1
451512	931205	15 97	0	0	0	0	0	0	0	1.2	1.2	.1	HOGDAL 1
451545	932746	85 97	18.7	0	0	0	0	0	0	0	0	8.9	SORTEBERG 1
451545	932746	15 97	3.3	0	0	0	0	0	0	0	0	1.6	SORTEBERG 1
451551	932121	100 97	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	BENNETT 1
451706	932606	100 97	0	0	0	0	0	0	0	10.0	10.0	10.0	HUNT 1
451710	932931	100 97	19.0	0	0	0	0	0	0	0	0	0	ENGVAL 1
451805	932951	100 97	0	0	0	0	0	0	0	5.0	5.0	2.4	SONNENBERG 1
451809	933019	100 97	0	0	0	0	0	0	5.0	5.0	5.0	5.0	SONNEBERG 1
452024	933010	15 97	0	0	0	0	0	0	0	17.0	17.0	2.8	MORITZ 1
452024	933010	85 97	0	0	0	0	0	0	0	10.0	15.0	16.1	MORITZ 1
452033	932338	100 97	0	0	0	0	0	0	0	5.0	5.0	6.8	MCCALLUM 1
452158	932442	100 97	0	0	0	0	0	0	3.0	3.0	3.0	.2	FRENCH 1
452423	931328	100 97	0	0	0	0	0	0	0	5.0	5.0	5.0	A & B FARMS 1
ANOKA COUNTY TOTALS			169.6	129.9	128.0	121.2	143.3	141.4	214.8	237.5	243.4	286.1	

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
CARVER COUNTY													
444511	933748	100 97	0	0	0	0	0	0	7.7	3.0	0	0	LINDSTROM
444916	934417	100 97	0	0	0	0	0	0	0	0	0	0	MAASS
444945	933452	100 81	31.4	32.3	18.0	33.1	10.9	25.5	43.4	0	20.5	19.1	HAZELTINE NAT'L GOLF
CARVER COUNTY TOTALS			31.4	32.3	18.0	33.1	10.9	25.5	51.1	3.0	20.5	19.1	
DAKOTA COUNTY													
442923	930507	100 97	0	0	0	0	0	0	0	0	34.6	17.3	HAND, R.
443029	930502	100 97	0	0	0	0	0	0	0	15.0	15.0	15.0	ERRINGTON, D.
443036	930207	100 97	0	0	0	0	0	0	0	14.3	12.5	6.2	BARRETT, M.J.
443041	930438	100 97	0	0	0	0	0	0	0	0	0	0	ERRINGTON FARMS
443104	930606	100 97	0	0	0	0	0	0	20.0	41.5	24.3	34.6	VOLKERT, F.
443105	930839	100 97	0	0	0	0	0	.8	9.1	4.0	.2	.2	ABBOTT, H.
443106	930515	100 97	0	0	0	0	0	0	0	51.9	41.5	30.0	VOLKERT, F.
443108	930257	100 97	0	0	0	0	0	0	66.0	67.6	19.4	33.0	VOLKERT, F.
443108	930636	100 97	0	0	0	0	0	0	0	50.6	31.6	21.6	VOLKERT, F.
443109	930432	100 97	0	0	0	0	0	0	52.0	51.8	38.9	21.6	VOLKERT, F.
443117	930401	100 97	0	0	0	0	0	0	0	46.6	21.0	12.5	CHMAN, M.A.
443120	925639	100 97	0	0	0	0	0	0	0	19.3	17.8	17.3	ILLA, D.
443125	925747	100 97	0	0	0	0	0	3.5	11.2	7.0	1.7	3.3	MCCOY, M.
443126	925617	100 97	0	0	0	0	0	0	13.9	11.6	6.7	6.9	GERGEN, E.J.
443126	925747	100 97	0	15.6	13.0	10.4	19.4	13.0	27.0	16.2	9.7	18.0	MCCOY, M.H.
443128	925717	100 97	0	0	0	0	0	0	0	17.6	9.8	7.3	FELTON, D.A.
443134	930616	100 97	0	0	0	0	0	0	51.8	51.8	25.9	19.4	VOLKERT, F.
443137	930427	100 97	0	0	0	0	0	0	21.7	19.9	20.0	20.0	VOLKERT, W.
443139	925846	100 97	0	0	0	0	0	0	0	44.0	45.3	33.9	AUGUSTINE, P.
443148	925941	100 97	0	0	0	0	0	0	54.0	48.2	29.5	19.7	BERDE, S.

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443150	925614	100 97	0	0	0	0	0	0	0	13.0	3.5	3.5	GERGEN, E.P.
443155	930116	100 97	0	0	0	0	0	0	0	22.0	17.3	3.1	TOPP, D.G.
443157	930926	100 97	0	0	0	0	0	0	15.5	.8	0	0	POND, R.
443200	925901	100 97	19.2	27.0	16.2	15.0	19.9	16.4	30.0	21.0	15.0	9.0	GERGEN
443203	930451	100 97	0	0	0	0	0	0	0	0	6.9	4.8	ENGLER, R.W.
443205	930826	100 97	0	0	0	0	0	0	0	8.4	0	0	PETERSON, R.W.
443216	925922	100 97	0	0	0	0	0	0	0	28.0	10.8	11.9	CONZEIUMS, J.
443221	925906	100 97	25.9	23.0	26.9	23.0	26.9	23.0	46.1	23.0	15.4	28.0	FELTON, A.
443222	931009	100 97	10.5	5.3	3.4	5.3	1.8	0	0	0	0	0	POND, M.
443223	925752	100 97	16.5	16.6	32.3	11.9	22.2	14.8	32.0	17.0	3.8	3.6	GRISIM, J.
443223	925906	100 97	0	13.0	15.0	13.0	15.1	13.0	43.2	20.3	13.5	16.0	FELTON, A.
443225	930151	100 97	0	0	0	0	0	0	24.0	19.3	10.5	6.3	ENGLER, C.
443227	925535	100 97	0	0	0	0	0	17.0	35.3	32.1	14.3	10.4	CONZEIUMS, G.
443228	925722	100 97	0	0	0	0	22.5	23.0	0	0	0	0	CHRISTIANSEN, E.
443229	930120	100 97	0	0	0	0	0	0	0	0	0	0	MOORHOUSE, W.
443244	925955	100 97	0	0	0	0	0	0	0	30.8	15.7	12.4	OTTE, J.A.
443248	930150	100 97	0	0	0	0	0	0	0	18.7	0	0	MOORHOUSE, W.
443249	925431	100 97	0	0	0	0	0	0	0	0	0	0	PINE CREEK FARMS
443249	925736	100 97	0	0	0	0	0	0	0	31.0	15.6	3.5	GERGEN, W.
443249	925933	100 97	0	0	0	0	0	0	0	0	4.5	6.2	OTTE, J.A.
443250	925701	100 97	0	0	0	0	0	15.0	0	0	0	0	CHRISTIANSEN, E.
443250	925808	100 97	0	0	0	0	0	15.6	32.0	41.5	18.4	18.4	GERGEN, E & W
443251	925541	100 97	0	0	0	0	0	0	0	0	0	0	CONZEIUMS, G.
443251	925904	100 97	0	0	0	0	0	0	0	35.5	20.6	11.6	OTTE, L.
443252	925012	100 97	0	0	0	0	0	0	0	0	0	0	DROMETER, F.
443252	925141	100 97	0	0	0	0	0	0	0	0	1.9	3.4	AHLERS, D.
443252	925719	100 97	0	0	0	0	0	0	24.7	18.7	11.9	8.1	FRANDRUP, A.
443303	925636	100 97	0	0	0	0	0	0	0	0	0	0	MELAMED, R.L.

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443312	925221	100 97	0	0	0	0	0	0	0	79.2	21.8	21.8	CONZEMIUS, J.
443313	925639	100 97	0	0	0	0	0	0	0	0	0	0	CONZEMIUS, G.
443313	925938	100 97	0	0	0	0	0	0	0	25.0	28.2	17.0	GERGEN, P.A.
443314	925543	100 97	0	0	0	0	0	0	0	15.9	10.1	8.2	CONZEMIUS, G.
443314	925846	100 97	0	0	0	0	0	0	0	0	13.2	15.0	GERGEN, L.J.
443315	925825	100 97	0	0	0	0	0	0	0	12.6	15.0	13.2	GERGEN, L.J.
443317	925418	100 97	0	0	0	0	0	9.2	22.9	10.6	6.3	6.4	CALLISTER, C.
443317	930554	100 97	0	0	0	0	0	0	0	0	12.1	8.8	BETZOLD BROTHERS
443336	925509	100 97	0	0	0	0	0	8.9	32.6	24.1	11.2	7.8	CALLISTER, W.
443337	930353	100 97	0	0	0	0	0	0	0	33.3	19.4	16.2	BETZOLD, K.
443338	930116	100 97	0	0	0	0	0	0	0	15.7	8.4	8.9	ENGLER, R.W.
443339	925556	100 97	23.0	18.0	18.0	18.0	19.8	18.2	31.7	28.0	11.7	7.8	CONZEMIUS, G.
443339	925810	100 97	0	0	0	0	0	0	0	13.4	16.0	7.6	FRANDRUP, A.
443340	925210	100 97	0	0	0	0	0	0	0	43.2	12.2	10.2	CONZEMIUS, J.
443349	925306	100 97	0	0	0	0	0	0	0	0	0	0	KIMMES, L.
443407	925128	100 97	0	0	0	0	0	0	0	13.4	9.1	6.2	WEBER, J.
443407	930259	100 97	0	0	0	0	0	0	43.2	18.5	10.5	10.0	SORG, W & G.
443435	925413	100 97	0	0	0	0	0	8.4	47.8	22.8	10.9	12.4	STEIN, N.
443436	930203	100 97	0	0	0	0	0	0	0	9.0	9.3	9.0	SCHAEFFER, H.H.
443441	925449	100 97	0	0	0	0	4.8	4.8	4.8	8.6	4.0	6.0	DIERKE, M.
443443	930627	100 97	3.9	5.0	1.0	5.0	5.0	4.5	16.0	1.9	0	0	PARISEAU, K.
443446	925140	100 97	0	0	0	0	0	0	0	77.8	25.3	16.9	CONZEMIUS
443455	930424	100 97	0	0	0	0	0	0	0	0	13.0	14.0	KLIWA, C.
443459	925317	100 97	0	0	0	0	0	0	0	28.8	10.8	8.5	KIMMES, L.
443501	925353	100 97	0	0	0	0	0	0	0	18.8	6.7	10.5	CELKAY INC.
443507	925732	100 97	0	0	0	0	0	0	0	29.2	38.4	18.6	REINSCH, K.J.
443520	925031	100 97	0	0	0	0	0	0	27.6	22.6	9.1	7.0	PEINE, T.C.
443520	925435	100 97	0	0	0	0	0	0	0	21.6	16.8	9.2	MURPHY, J.

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443520	925809	100 97	0	0	0	0	0	0	0	26.5	17.3	13.4	WELLMAN, A.
443521	924816	100 97	0	0	0	0	0	0	0	34.2	16.3	7.2	ELMEGA FARM
443524	925357	100 97	0	0	0	0	0	0	0	13.4	3.6	4.0	LANDSBERGER, F.
443525	924905	100 97	0	0	0	0	0	0	0	7.8	10.8	12.1	BAUER, I.
443552	924941	100 97	0	0	0	0	0	0	0	24.7	.3	9.1	SCHAFER, W.
443552	925008	100 97	0	0	0	0	0	0	0	31.7	20.7	26.0	WELLMAN, F.
443552	930409	100 97	0	0	0	0	0	0	0	33.0	25.2	14.4	WAGENKNECHT, G.E.
443554	925056	100 97	0	0	0	0	0	0	0	26.0	12.9	10.0	LEIFIELD, R.
443615	924720	100 97	0	0	0	0	0	0	0	15.2	11.7	5.7	PEINE, H.
443619	924932	100 97	0	0	0	0	0	0	0	25.6	.3	5.0	SCHAFER, W.
443628	925645	100 97	0	0	0	0	0	0	0	13.0	8.6	.2	PEINE, L
443636	925014	100 97	0	0	0	0	0	0	22.7	45.6	28.8	32.0	MOLITOR, E.
443643	930147	100 97	0	0	0	0	0	0	58.2	12.2	20.2	7.2	DOHMEN, E.
443648	924952	100 97	0	0	0	0	0	0	9.6	0	5.2	.4	RAWAY, F.
443651	925541	100 97	0	0	0	0	0	0	0	15.9	9.1	11.2	BIESSEL
443707	925844	100 97	0	0	0	0	0	0	0	0	11.0	13.1	ENDRES, M.
443709	925152	100 97	0	0	0	0	0	0	0	12.6	9.4	11.7	WEBER, G.
443709	930608	100 97	0	0	0	0	0	0	0	31.6	29.6	18.0	EMPEY, D.
443710	925205	100 97	0	0	0	0	0	0	0	54.0	31.8	22.5	GERGEN, L.J.
443710	930642	100 97	0	0	0	0	0	0	0	26.6	7.1	7.9	EMPEY, D.
443712	930720	100 97	0	0	0	0	0	0	0	5.5	2.5	3.6	ANUGUS, A.
443713	930321	100 97	0	0	0	0	0	0	0	0	0	0	POND, D.
443716	924826	100 97	0	0	0	0	0	0	0	9.0	13.7	12.8	KIMMIS, R.
443716	924913	100 97	0	0	0	0	0	0	33.9	18.3	13.8	13.9	KIMMES, S.T.
443720	924903	100 97	0	0	0	0	0	0	0	19.7	7.4	8.8	KIEFFER, W.
443722	930926	100 97	7.3	1.3	0	0	6.6	3.4	12.3	0	6.9	7.0	ADELMANN, P.
443722	931030	100 97	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	ADELMANN, F.
443723	925658	100 97	0	0	0	0	0	0	49.3	18.0	2.5	4.0	BEISSEL, G.

Table 12.—Annual ground-water use for irrigation—Continued

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443736	925230	100 97	0	0	0	0	0	0	0	12.3	9.7	5.9	JOHNSON, G.
443736	925252	100 97	0	0	0	0	0	0	0	1.6	.9	.9	KIMMES, E.T.
443737	930414	100 97	0	0	0	0	0	0	41.0	34.7	20.0	15.8	BEYZOLD, K.
443738	930242	100 97	0	0	0	0	0	0	0	0	0	0	JUENKE, L.W.
443746	924834	100 97	0	0	0	0	0	0	0	24.2	12.0	11.2	BAUER, A.
443753	935447	100 97	0	0	0	0	0	0	0	18.3	11.5	9.3	KING, W.
443759	931049	100 97	0	0	0	0	0	0	0	36.0	18.0	24.0	DEVNEY, J.
443800	925033	100 97	0	0	0	0	0	0	0	0	0	0	KIMMIS, R.
443802	930947	100 97	10.0	14.0	14.0	14.0	15.3	20.2	35.8	17.0	16.8	5.9	ADELMANN, W.
443803	925712	100 97	0	0	0	0	0	0	71.4	65.0	51.0	36.0	WAGNER, A.
443803	930039	100 97	0	0	0	0	0	0	0	18.2	9.2	7.2	LOUIS, B.
443806	930149	100 97	0	0	0	0	0	0	0	0	.2	6.0	GERSTER, A.
443809	930436	100 97	0	0	0	0	0	0	41.0	18.9	20.0	16.7	JUENKE, L.
443813	924923	100 97	0	0	0	0	0	0	0	12.7	10.0	11.1	SWANSON
443822	925435	100 97	26.0	15.3	11.8	15.6	26.5	21.4	26.9	18.8	12.2	18.3	LORENTZ, C.
443825	924851	100 97	0	0	0	0	0	0	0	13.2	9.9	9.0	FOX, G.F.
443826	925906	100 97	0	0	0	0	0	0	0	10.1	6.3	4.1	BAUER, J.J.
443827	925319	100 97	0	0	0	0	0	0	21.6	1.4	.9	.9	KIMMES, E.
443828	925734	100 97	0	0	0	0	54.2	14.2	58.4	32.2	29.2	15.0	BROCHMAN BROS
443829	925941	100 97	0	0	0	0	0	0	33.7	7.7	4.5	4.0	BAUER, J.J.
443830	925050	100 97	0	0	0	0	0	0	0	7.5	4.6	3.8	KINGSTON, J.
443830	925227	100 97	0	0	0	0	0	0	36.6	16.9	11.0	9.5	KIMMIS, R.
443832	930620	100 97	0	0	0	0	0	0	6.7	1.3	0	4.0	BEYZOLD, G.A.
443834	925544	100 97	0	27.0	18.3	20.3	32.3	31.5	33.0	39.6	28.5	34.0	ANGELL, F.R.
443838	930223	100 97	0	0	0	0	17.0	21.6	37.9	27.9	15.1	12.9	LOUIS, BEN
443838	930425	100 97	0	0	0	0	0	0	0	7.1	3.0	3.0	SOWIEJA, E.
443841	925458	100 97	0	23.1	16.8	18.9	29.4	27.3	39.5	22.7	29.1	31.0	ANGELL, R.B.
443842	930001	100 97	0	0	0	0	0	0	0	27.0	20.9	14.6	WERNER, J.

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443843	925922	100 97	0	0	0	0	0	0	43.3	9.1	6.5	5.2	BAUER, B.
443846	925657	100 97	0	0	0	0	0	15.4	57.6	40.5	40.5	46.0	SIEBENALER, W.
443851	925056	100 97	0	0	0	0	0	0	24.8	12.6	12.5	6.5	KINGSTON, J.
443852	925206	100 97	0	0	0	0	0	0	0	37.0	23.3	16.5	GERBES ENTERPRISES
443853	925131	100 97	0	0	0	0	0	0	20.0	17.2	6.5	5.9	KINGSTON, J.
443853	925245	100 97	0	0	0	0	0	0	40.6	19.2	20.4	16.3	KIMMES, H.
443853	925325	100 97	0	0	0	0	0	34.8	68.0	55.7	31.3	22.9	WOLLMERING, G. & J.
443854	925432	100 97	0	0	0	0	0	0	0	15.3	11.6	6.3	DEUTSCH
443854	925808	100 97	0	0	0	0	0	0	0	32.0	11.3	10.0	SIEBENALER, P.
443855	925903	100 97	0	0	0	0	0	0	0	13.0	3.2	4.5	BAUER, B.M.
443856	930129	100 97	0	0	0	0	0	0	79.5	57.1	20.6	23.1	HINCE, J.
443907	930442	100 97	0	0	0	0	0	0	0	0	0	0	DERNER, A.
443907	930611	100 97	0	0	0	0	0	0	29.2	42.7	11.3	16.0	BEITZOLD, D.
443914	925156	100 97	0	0	0	0	0	0	0	9.9	5.6	5.6	KIMMES, H.
443917	924638	100 97	0	0	0	0	0	0	0	18.6	39.2	19.0	CARLSON
443919	925224	100 97	27.6	25.2	16.8	33.4	42.9	34.3	65.0	34.5	28.6	15.7	BAUER, R.N.
443919	925318	100 97	0	0	0	0	0	0	46.2	48.5	36.4	18.9	BAUER, M.
443920	925417	100 97	0	0	0	0	0	24.0	50.4	48.6	36.2	20.3	BAUER, A.
443921	925355	100 97	0	0	0	0	0	0	0	17.3	14.9	10.4	WOLLMERING, G.
443921	925810	100 97	0	0	0	0	0	0	54.4	43.5	37.0	25.7	TUTEWOHL
443921	930503	100 97	30.0	30.0	36.3	27.1	19.3	15.0	63.8	14.1	4.6	3.7	MILES, J.G.
443928	930427	100 97	0	0	0	0	0	0	0	7.9	9.6	4.5	DERNER, A.F.
443931	930604	100 97	0	0	0	0	0	0	5.3	4.5	1.7	4.0	STEGMAIER, R.
443932	925619	100 97	0	0	0	0	0	0	0	29.5	26.0	13.7	BROCHMAN BROS.
443932	925813	100 97	0	0	0	0	0	0	30.3	20.2	22.1	20.0	BEISEL, D.
443934	930458	100 97	19.0	16.5	17.0	14.0	12.4	10.5	41.4	20.6	1.2	21.0	MILES, J.G.
443935	924928	100 97	0	0	0	0	0	0	0	5.1	8.4	9.5	SWANSON, W.
443935	925041	100 97	0	0	0	0	0	1.5	7.8	6.1	5.1	3.5	SWANSON, L.

Table 12.—Annual ground-water use for irrigation—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
443944	925245	100 97	0	0	0	0	0	0	38.0	14.4	7.1	4.2	BAUER, F. & STEINKE, 1
443945	925209	100 97	0	0	0	0	0	0	34.0	26.1	21.8	14.3	FOX, G.F. 1
443946	925734	100 97	0	0	0	0	0	0	0	30.6	11.5	4.6	WALLMERING, H. 1
443947	925507	100 97	0	0	0	0	0	0	5.0	20.0	10.3	22.0	STEBENALER, C.J. 1
443947	925809	100 97	0	0	0	0	0	0	39.2	28.6	38.0	4.4	ROTHER, L. 1
443947	930336	100 97	0	0	0	0	0	0	0	15.3	6.5	5.4	KAMEN, D. 1
443948	925849	100 97	0	0	0	0	0	0	1.2	5.5	5.3	.1	RAWAY, H. 1
443948	930908	100 97	0	0	0	0	0	0	0	27.8	11.7	5.2	STEGMAIER, R. 1
443948	930938	100 97	0	0	0	0	0	0	33.5	38.9	20.0	20.0	REISINGER, D. 1
443952	925420	100 97	0	0	0	0	0	0	64.4	35.6	20.8	11.1	LEIFELD, N. 1
444005	930230	100 97	0	0	0	0	0	0	27.0	15.7	7.6	3.7	SACHS, W. 1
444008	924827	100 97	0	0	0	0	0	0	0	0	27.0	12.0	MAHER, M. 1
444012	925055	100 97	0	0	0	0	0	0	33.0	36.0	29.8	33.6	KIEFFER, J. 1
444012	925241	100 97	0	0	0	0	0	25.9	86.4	44.8	43.4	47.0	BAUER, L. 1
444012	930017	100 97	0	0	0	0	0	0	0	13.0	13.5	8.0	BROCHMAN, R.J. 1
444013	925733	100 97	0	0	0	0	0	0	0	12.5	4.9	11.3	REIS, C. 1
444013	930329	100 97	0	0	0	0	0	0	0	18.9	10.8	9.0	BROCKMAN, L. 1
444014	925925	100 97	0	0	0	0	0	0	19.9	24.0	28.8	24.9	KUMMER, M. 1
444014	930216	100 97	0	0	0	0	0	0	0	0	0	0	BOCKMAN, L. 1
444036	924812	100 97	0	0	0	0	0	0	0	25.2	42.9	34.0	ALMQUIST, E. 1
444036	925432	100 97	0	0	0	0	0	0	43.9	18.8	24.7	10.6	BESKAU, J. 1
444037	925207	100 97	0	0	0	0	0	0	0	14.8	19.1	12.3	DLR LAND PARTNERSHIP 1
444037	925241	100 97	0	0	0	0	0	16.8	39.6	28.8	28.8	28.0	GROTH, D. 1
444037	925620	100 97	0	0	0	0	0	0	0	1.9	12.4	7.5	WAGNER, E. 1
444038	925114	100 97	0	0	0	0	0	0	14.4	2.5	3.5	4.0	SCHULLER, J.D. 1
444038	925318	100 97	0	0	0	0	0	27.9	51.8	37.9	33.4	53.2	BAUER, L.J. 1
444040	925546	100 97	0	0	0	0	42.1	50.1	105.3	45.8	36.2	51.9	GERGEN, J. 1
444040	930938	100 97	0	0	0	0	0	0	0	29.2	5.8	2.3	STEGMAIER, R. 1

Table 12.—Annual ground-water use for irrigation—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
444040	931017	100	97	0	0	0	0	0	0	0	0	0	0	STEGMAIER, R.
444048	930012	100	97	0	0	0	0	0	0	0	18.9	16.7	3.0	WERNER, A.
444052	925544	100	97	0	0	0	0	0	28.8	84.9	31.5	22.7	17.6	BESKAW & GERGEN
444053	924844	100	97	0	0	0	0	0	0	28.8	25.2	42.9	32.0	ALMQUIST, E.
444101	924746	15	97	4.9	3.9	3.9	3.9	4.4	3.9	8.1	4.3	7.5	5.3	ALMQUIST, E.
444101	924746	85	97	27.5	22.1	22.1	22.1	25.0	22.1	45.9	24.5	42.5	30.0	ALMQUIST, E.
444103	924526	100	97	0	0	0	0	0	0	0	15.7	10.0	2.2	REUTER, W.
444104	925037	100	97	0	0	0	0	0	0	0	14.4	0	0	PALM, L.
444104	925431	100	97	0	0	0	0	33.7	25.0	50.6	51.1	29.6	19.9	LEIFELD
444104	925618	100	97	0	0	0	0	0	0	0	17.2	16.4	15.0	STOFFEL, R.G.
444105	931017	100	97	0	0	0	0	0	0	19.4	35.6	7.8	5.8	STEGMAIER, R.
444106	930037	100	97	0	0	0	0	0	0	0	33.6	30.4	3.8	WERNER, A.
444109	925346	100	97	0	0	0	0	0	0	37.8	.6	.7	1.6	WYATT, M.
444115	930024	100	97	0	0	0	0	0	0	0	37.3	28.8	8.0	RIES, J.
444122	925533	100	97	0	0	0	0	0	17.8	3.3	11.9	8.0	6.3	STOFFEL, L.
444128	924752	100	97	0	0	0	0	0	0	0	28.8	55.9	42.0	ALMQUIST, E.
444129	924824	100	97	0	0	0	0	0	0	29.4	21.0	.3	18.9	MAHER, M.
444130	924640	100	97	0	0	0	0	0	0	0	14.7	5.0	5.0	DUSHANE, R.
444130	925122	100	97	0	0	0	0	0	0	41.6	18.9	19.4	18.0	MOLITOR, E.
444130	925356	100	97	0	0	0	0	0	18.0	31.5	21.6	1.4	22.5	BAILEY NURSERIES
444130	925543	100	97	0	0	0	0	0	0	28.3	42.7	5.6	3.7	STOFFEL, N.
444130	925848	100	97	0	0	0	0	0	0	34.6	16.1	10.9	8.1	FRANDRUP, F.
444130	925924	100	97	0	0	0	0	0	0	0	9.1	12.1	8.1	FRANDRUP, D.
444131	925429	100	97	28.0	34.0	34.0	45.4	51.0	58.7	0	0	0	0	BROWN, C.B.
444133	931201	100	97	0	9.0	0	12.6	9.0	9.9	45.2	8.4	10.3	10.0	JENSEN, R.
444134	930223	100	97	0	0	0	0	0	0	0	10.6	5.8	4.6	BOHN, T.
444135	925325	100	97	0	0	0	0	0	30.6	87.5	35.4	61.0	54.3	BAUER, G & J
444140	924538	100	97	0	0	0	0	0	0	0	0	6.0	12.0	CARLSON, A.J.

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
444144	930058	100	97	0	0	0	0	0	0	0	16.2	7.7	10.4	VOLKERT, A.J.
444154	924958	100	97	0	0	0	0	0	0	6.9	25.2	5.3	4.0	RIES, N.
444154	925015	100	97	0	0	0	0	0	13.7	32.9	27.0	13.0	9.7	CONZEMIUS, J.
444154	925619	100	97	0	0	0	0	0	0	28.9	12.4	4.4	6.9	KASEL, G.
444155	924827	100	97	0	0	0	0	0	0	0	20.2	.3	15.1	MAHER, M.
444155	925733	100	97	0	0	0	0	0	0	37.8	26.1	6.5	19.2	GERGEN, L.
444155	930036	100	97	0	0	0	0	0	0	20.8	13.1	8.5	8.9	VOLKERT, E.K.
444156	925415	100	97	0	0	0	0	23.4	27.1	31.7	19.8	8.6	25.1	GINGEN, LEO
444156	925655	100	97	0	0	0	0	0	0	56.6	25.7	32.4	25.9	SIEBENALER, J.
444156	925922	100	97	0	0	0	0	0	0	0	12.6	9.7	4.5	BAUER, C.
444157	925129	100	97	0	0	0	0	0	0	0	10.7	15.6	17.3	BAUER, L.
444157	925318	100	97	0	0	0	0	0	0	0	0	0	0	BAUER, G.
444158	925055	100	97	0	0	0	0	0	0	32.8	13.8	24.2	9.7	BECKER, L.
444158	925847	100	97	0	0	0	0	0	0	0	18.6	16.4	9.6	FRANDRUP, F.
444203	924701	100	97	0	0	0	0	0	0	0	33.4	27.4	16.2	SIEBENALER, L.
444210	925207	100	97	0	0	0	0	0	0	0	0	0	0	FRY, R.
444211	925148	100	97	0	0	0	0	0	0	37.3	9.2	9.2	6.0	SIEBEN, A.
444219	925056	100	97	0	0	0	0	0	0	28.8	26.9	13.1	7.2	CONZEMIUS, J.
444221	924754	100	97	0	0	0	0	0	0	0	27.6	30.2	9.0	BIRK, M.
444221	925449	100	97	0	0	0	0	0	0	0	5.8	3.6	3.5	KESEL, E.
444222	925344	100	97	36.0	32.0	32.0	18.6	38.4	39.0	46.2	25.5	8.0	8.0	BAUER, H. / BAILEY,
444222	925432	100	97	0	0	0	0	0	0	0	0	0	0	PETTIT, W.
444222	930000	100	97	0	0	0	0	0	0	0	14.8	9.4	9.0	VOLKERT, E.
444222	930035	100	97	0	0	0	0	0	0	0	16.3	5.5	6.0	BAUER, B.M.
444223	925809	100	97	0	0	0	0	0	0	0	26.4	18.4	22.0	SIEBEN, N.
444223	925846	100	97	0	0	0	0	0	0	40.8	30.6	15.6	15.0	SIEBEN, N.
444224	925736	100	97	0	0	0	0	0	0	0	4.0	4.0	4.0	GROTH, D.A.
444227	925536	100	97	0	0	0	0	0	29.4	0	0	0	7.8	STOFFEL, R.

Table 12.—Annual ground-water use for irrigation—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued														
444233	925310	100	97	0	0	0	0	0	0	39.1	13.1	15.5	23.0	BAUER, W. 1
444248	925846	100	97	0	0	0	0	0	0	0	19.2	5.2	2.9	SCHAFER, T.W. 1
444248	925923	100	97	0	0	0	0	0	0	0	25.2	10.0	10.0	FOX, H. & R. 1
444249	925507	100	97	0	0	0	0	0	0	0	9.2	6.0	3.6	BAUER, G. 1
444249	930148	100	97	0	1.0	1.0	1.0	1.0	1.0	5.0	5.0	5.0	5.0	MARTHALER, J. 2
444249	930148	100	97	0	1.0	1.0	1.0	10.4	0	15.8	0	1.7	3.5	MARTHALER, J. 1
444250	925240	100	97	25.0	25.0	25.0	25.0	25.0	32.4	72.9	25.9	21.6	40.0	BAUER 1
444251	925429	100	97	0	0	0	0	0	16.8	38.9	31.4	18.4	24.2	BAUER, M. 1
444254	925754	100	97	0	0	0	0	0	0	0	0	0	0	GROTH, D.A. 1
444314	925959	100	97	0	0	0	0	0	0	0	28.1	25.7	22.3	FAHEY BROS. 1
444318	930050	100	97	0	0	0	0	0	0	28.4	19.4	18.9	8.6	ABRAHAMSEN, H. 1
444320	925907	100	97	0	0	0	0	1.4	13.3	31.0	35.6	12.0	7.2	FOX, R. 1
444324	925617	100	97	0	0	0	0	0	18.0	57.6	19.2	15.5	15.2	BAUER, H. 1
444335	925658	100	97	0	0	0	0	24.3	21.5	40.5	19.1	13.5	9.3	ROTTY, R. 1
444337	925729	100	97	0	0	0	0	0	2.3	4.9	4.8	.8	.7	PETERSON, D. 1
444341	930000	100	97	0	0	0	0	0	0	52.8	32.3	25.0	25.0	FOX, H.J. 1
444401	925620	100	97	0	0	0	0	14.7	9.3	32.4	10.4	8.4	4.7	BAUER, H. 1
444405	930041	100	97	0	0	0	0	0	0	0	7.0	2.4	2.3	COODES, R. 1
444406	925814	100	97	0	0	0	0	0	0	0	25.2	14.4	13.0	FURLONG, T. 1
444409	925921	100	97	0	0	0	0	0	0	43.2	21.4	31.1	23.5	PINE BEND DEVEL 1
444430	925636	100	97	0	0	0	0	0	0	0	16.2	2.3	2.2	BAUER, F. 1
444432	930009	100	97	0	0	0	0	0	0	31.0	23.0	13.8	21.6	PINE BEND DEVEL 1
444433	930055	100	97	0	0	0	0	0	0	36.6	23.2	37.0	23.0	PINE BEND DEVEL 1
444447	925947	100	97	0	0	0	0	0	0	0	0	0	0	PINE BEND DEVEL 1
444452	930310	100	97	0	0	0	0	0	0	0	3.0	1.7	7.6	PETERSON, D.I. 1
444455	925904	100	97	0	0	0	0	0	0	0	16.8	13.6	21.4	PINE BEND DEVEL 1
444455	930258	100	97	0	0	0	0	0	0	0	0	3.3	6.0	PETERSON, D.I. 1
444518	925535	100	97	0	0	0	0	0	0	0	26.6	9.1	9.0	SORG, L. 1

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
DAKOTA COUNTY—Continued													
444541	925511	100 97	0	0	0	0	0	0	0	0	0	0	SORG, LOREN
444544	925433	100 97	0	0	0	0	0	0	0	32.0	32.0	4.6	TRAPP, H.
444612	930927	65 81	0	0	0	0	0	4.6	36.1	21.5	24.0	9.3	APPLE VALLEY GOLF CO 1
444612	930927	35 81	0	0	0	0	0	2.5	19.4	11.6	12.9	5.0	APPLE VALLEY GOLF CO 1
DAKOTA COUNTY TOTALS			345.3	408.9	380.8	379.5	722.1	1055.6	4438.8	5380.7	3797.4	3186.2	
HENNEPIN COUNTY													
444815	931922	100 81	43.6	39.3	45.0	41.0	43.4	22.4	78.6	51.7	57.4	45.0	BLOOMINGTON GOLF COU 1
445352	933526	100 81	18.2	13.9	10.3	10.0	8.6	7.5	11.0	8.8	.2	3.4	MINNETONKA COUNTRY C 1
445421	932027	100 81	50.0	50.0	50.0	50.0	50.0	50.0	25.0	25.0	25.0	16.2	EDINA COUNTRY CLUB 1
445503	932228	35 81	18.4	12.3	7.6	12.5	11.5	4.6	0	0	0	0	INTERLACHEN COUNTRY 1
445503	932228	100 81	0	0	0	0	0	0	55.0	55.0	55.0	55.0	INTERLACHEN COUNTRY 1
445503	932228	65 81	34.2	22.8	14.1	23.2	21.4	8.6	0	0	0	0	INTERLACHEN COUNTRY 1
445503	932228	100 81	6.4	18.5	8.4	15.4	9.3	19.1	38.6	25.9	26.4	0	INTERLACHEN COUNTRY 2
445609	932424	100 81	35.1	29.2	23.2	27.8	30.8	26.1	47.2	28.2	27.2	22.6	OAK RIDGE COUNTRY CL 1
445612	931759	100 97	20.0	20.0	20.0	20.0	23.0	20.0	20.0	20.0	20.0	20.0	LAKEWOOD CEMETARY 1
445634	931915	100 81	37.3	31.3	27.0	28.8	47.7	41.4	72.4	36.4	46.8	48.4	MINIKAHDA CLUB 1
445855	933205	100 81	41.0	44.0	44.0	44.0	41.9	46.8	49.1	31.0	28.5	29.7	WAYZATA COUNTRY CLUB 1
450039	931240	65 81	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	GROSS GOLF COURSE 1
450039	931240	35 81	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	GROSS GOLF COURSE 1
450245	933110	100 81	24.2	21.3	9.5	29.4	31.6	23.0	25.0	25.0	25.0	25.0	ELM CREEK GOLF COURS 1
450712	932103	100 97	18.9	15.1	37.8	22.8	25.0	25.0	48.6	18.1	30.0	17.3	GOETZ 1
450745	931939	100 97	10.6	10.0	10.0	10.0	19.3	12.3	54.2	13.8	12.0	8.2	ZIMMERMAN 1

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
HENNEPIN COUNTY—Continued													
450750	932209	100 97	9.6	34.3	19.8	19.7	10.3	25.2	45.7	8.2	4.2	8.4	WINEGARD 1
450800	932235	100 97	13.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	GRAY 1
450802	932009	100 97	8.6	10.1	7.2	10.6	7.9	12.3	26.9	15.4	5.0	11.5	ZACHOW 1
450914	932310	5 97	1.2	.4	.1	.3	.4	.5	1.8	.5	.3	.6	BROOKLYN FARMS 1
450914	932310	95 97	23.6	7.7	1.7	4.9	7.6	10.1	33.9	8.8	5.7	12.1	BROOKLYN FARMS 1
HENNEPIN COUNTY TOTALS			433.9	415.2	370.7	405.4	424.7	389.9	668.0	406.8	403.7	358.4	
RAMSEY COUNTY													
445711	931156	100 81	18.6	16.2	15.4	23.9	33.0	22.0	22.0	22.0	22.0	22.0	TOWN AND COUNTRY CLU 1
445944	931119	100 81	23.0	24.0	24.0	24.0	24.0	0	15.8	12.8	24.0	24.0	UNIV OF MINN GOLF CO 1
445954	930109	35 81	7.2	11.6	10.2	10.2	5.7	13.1	13.9	17.9	12.1	14.1	RAMSEY COUNTY GOLF C 2
445954	930109	65 81	13.8	21.6	18.9	18.9	10.5	24.3	25.7	33.2	22.5	26.3	RAMSEY COUNTY GOLF C 2
RAMSEY COUNTY TOTALS			62.6	73.4	68.5	77.0	73.2	59.4	77.4	85.9	80.6	86.4	
SCOTT COUNTY													
443645	934540	100 97	0	0	0	0	0	0	4.1	5.3	12.2	15.7	O'BRIEN, K.P. 1
443745	934312	100 97	11.5	8.6	5.6	10.1	8.0	2.0	21.6	0	7.0	7.0	KORNER 1
444314	933526	100 97	12.6	8.6	3.9	11.6	11.7	7.4	14.0	1.4	0	5.0	FLOOD, R.M. 1
444731	932850	100 97	0	0	3.5	8.4	28.6	9.7	20.5	0	0	0	FLOOD, M.J. 1
SCOTT COUNTY TOTALS			24.1	17.2	13.0	30.1	48.3	19.1	60.2	6.7	19.2	27.7	

Table 12.—Annual ground-water use for irrigation—Continued

[Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.]

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY													
444652	925128	100 97	0	0	0	0	0	0	0	5.2	3.3	4.0	SCNEIDER, H.J.
444706	925024	100 97	0	0	0	0	0	0	0	6.9	3.3	5.0	MCCALLUM, K.J.
444741	925209	100 97	2.3	2.3	9.9	11.0	10.1	12.6	36.0	25.2	25.2	8.0	SMALLIDGE
444751	925631	100 97	0	0	0	0	0	29.4	51.2	42.0	33.6	7.6	SMALLIDGE
444802	925657	100 97	0	0	0	0	0	0	0	2.3	.3	.2	ZYWIEC
444831	925011	100 97	0	0	0	0	0	0	0	10.4	2.9	7.0	RENTZ, C.T.
444856	925809	100 97	0	0	0	0	0	0	0	14.9	12.0	5.7	SWANJUNDS
444955	925406	100 97	0	0	0	0	0	0	0	23.9	23.0	23.0	TANK, D.F.
445039	925505	100 97	0	0	0	0	0	0	0	0	0	0	GOBEL, AL
445047	925008	100 97	0	0	0	0	0	0	0	30.2	28.8	29.0	BISCOE, S.
445048	925406	100 97	0	0	0	0	0	0	0	9.7	5.4	7.0	GOBEL, AL
445102	925352	100 97	0	0	0	0	0	0	0	9.7	5.9	8.0	GOBEL, T
445219	925249	100 97	0	0	0	0	0	0	0	5.8	9.1	8.0	NIEMAN, E.
445308	925707	100 97	0	0	0	0	0	0	13.2	10.0	2.4	1.2	ZYWIEC
445329	925316	100 97	4.4	3.9	2.9	5.6	8.0	6.1	10.7	7.7	5.9	6.8	BAILEY NURSERIES
450804	925102	100 97	0	0	0	0	0	0	52.3	31.5	0	0	CARLSON
451401	925338	100 97	15.0	7.9	2.3	3.3	6.2	6.3	17.0	8.8	1.4	2.5	WHITE ROCK LAKE FARM
451441	925746	100 97	0	0	0	0	0	0	0	0	0	0	RAMBURG
451544	925744	100 97	0	0	0	0	0	0	0	0	0	0	SALVERDA, W.E.
WASHINGTON CO TOTALS			21.7	14.1	15.1	19.9	24.3	54.4	180.4	244.2	162.5	123.0	
TWIN CITIES TOTALS			1088.6	1091.0	994.1	1066.2	1446.8	1745.3	5690.7	6364.8	4727.3	4086.9	

Table 13.—Annual ground-water use for lake-level maintenance

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.1

Lat	Long	PC Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
ANOKA COUNTY													
445037	932146	100 61	24.0	15.0	15.0	15.0	14.6	15.5	19.0	21.1	19.0	16.8	HENNEPIN CO PARK RES 1
445252	931722	100 61	0	52.9	78.8	69.8	76.7	37.8	75.8	26.4	49.0	70.6	WOOD LAKE PARK 1
445307	931616	100 61	28.1	30.9	35.3	43.5	45.5	27.1	53.7	34.1	28.9	32.9	MILNER POND IMPROVEM 1
450831	932553	100 61	0	0	0	10.0	16.3	20.4	31.9	35.0	35.0	37.6	HENNEPIN CO PARK RES 1
HENNEPIN COUNTY TOTALS			52.1	98.8	129.1	138.3	153.1	100.8	180.4	116.6	131.9	157.9	
RAMSEY COUNTY													
445935	930205	100 61	0	0	0	0	0	0	0	0	0	0	RAMSEY CO LAKE WAKE 17
445947	930334	100 61	567.4	0	0	0	0	4.9	37.2	188.6	47.7	20.0	RAMSEY CO LAKE PHAL 20
450001	930348	100 61	512.6	0	0	0	0	0	0	0	0	0	RAMSEY CO LAKE KELL 10
450021	930329	100 61	267.8	273.6	0	0	30.0	81.0	199.6	428.3	46.2	72.1	RAMSEY CO LAKE KELL 21
450126	925923	65 61	13.8	0	0	0	0	0	0	12.0	0	0	RAMSEY CO LAKE SILV 13
450126	925923	35 61	7.4	0	0	0	0	0	0	6.4	0	0	RAMSEY CO LAKE SILV 13
450126	930603	100 61	0	23.3	30.2	16.8	16.4	0	0	0	0	0	RAMSEY CO LAKE ROUN 12
450209	930741	35 61	0	0	0	0	0	0	0	0	0	0	RAMSEY CO LAKE OWAS 14
450209	930741	65 61	0	0	0	0	0	0	0	0	0	0	RAMSEY CO LAKE OWAS 14
450220	930924	35 61	10.0	0	0	0	0	0	.7	0	0	0	RAMSEY CO LAKE JOSE 5
450220	930924	65 61	18.5	0	0	0	0	0	1.2	0	0	0	RAMSEY CO LAKE JOSE 5
450235	930650	95 61	110.9	90.3	0	0	0	0	131.3	209.3	0	0	RAMSEY CO LAKE OWAS 14
450235	930650	5 61	5.8	4.8	0	0	0	0	6.9	11.0	0	0	RAMSEY CO LAKE OWAS 14
450251	931021	100 61	99.4	0	0	0	0	0	129.6	0	0	0	RAMSEY CO LAKE JOHA 19
450313	930805	100 61	0	0	0	0	0	0	0	19.4	0	0	RAMSEY CO LAKE ISLA 18
450443	930738	100 61	230.4	171.4	110.9	164.2	159.8	0	178.6	171.4	79.2	46.3	RAMSEY CO LAKE SNAI 6
450451	930212	100 61	68.0	0	0	0	0	0	31.1	21.9	0	0	RAMSEY CO LAKE BIRC 8
450514	925956	100 61	211.7	0	0	0	1.0	0	0	0	0	0	RAMSEY CO LAKE WHIT 1
450514	925956	100 61	211.7	0	0	0	1.0	0	0	0	0	0	RAMSEY CO LAKE WHIT 2
450533	930750	100 61	199.6	139.4	0	107.0	253.4	0	231.3	201.6	47.5	74.9	RAMSEY CO LAKE TURT 16

Table 13.—Annual ground-water use for lake-level maintenance—Continued

Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
RAMSEY COUNTY—Continued														
450539	925947	25	61	64.4	0	0	0	.3	0	0	72.0	0	0	RAMSEY OO LAKE WHIT 3
450539	925947	70	61	180.3	0	0	0	.8	0	0	201.6	0	0	RAMSEY OO LAKE WHIT 3
450539	925947	5	61	12.9	0	0	0	.1	0	0	14.4	0	0	RAMSEY OO LAKE WHIT 3
450550	925905	95	61	830.1	0	0	0	175.1	0	0	273.6	0	0	RAMSEY OO LAKE WHIT 9
450550	925905	5	61	43.7	0	0	0	9.2	0	0	14.4	0	0	RAMSEY OO LAKE WHIT 9
450604	930041	95	61	0	0	0	0	0	0	0	0	0	0	RAMSEY OO LAKE BALD 15
450604	930041	5	61	0	0	0	0	0	0	0	0	0	0	RAMSEY OO LAKE BALD 15
450626	931334	100	61	0	0	0	0	0	0	0	0	0	0	RAMSEY OO LAKE SPRI 11
450626	931334	100	61	36.0	25.2	0	9.0	49.2	0	23.8	45.4	24.5	0	RAMSEY OO LAKE SPRI 11
RAMSEY COUNTY TOTALS				3702.4	728.0	141.1	297.0	696.3	85.9	971.3	1891.3	245.1	213.3	
SCOTT COUNTY														
444638	932048	100	61	38.9	23.0	25.9	15.8	14.4	20.0	102.2	93.0	84.7	7.9	METRO PARKS SYSTEM 1
SCOTT COUNTY TOTALS				38.9	23.0	25.9	15.8	14.4	20.0	102.2	93.0	84.7	7.9	
TWIN CITIES TOTALS				3793.4	849.8	296.1	451.1	863.8	206.7	1253.9	2100.9	461.7	379.1	

Table 14.—Annual ground-water use for dewatering

(Values in million gallons per year; Lat, latitude; Long, longitude; PC, percent of well discharge withdrawn from aquifer; Use, use category as in Table 1.)

Lat	Long	PC	Use	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	Well Owner and No.
WASHINGTON COUNTY														
444730	932550	100	63	2180.6	1966.0	1727.9	2126.5	1951.3	2299.5	2361.7	2384.3	2810.0	1972.7	SHEELY ROCK
444715	930000	100	63	0.0	0.0	997.9	2511.6	3628.2	1784.0	14.0	0.0	42.0	1120.0	SHEELY CO
444815	930030	100	63	151.2	151.2	131.7	153.1	150.9	152.1	155.7	156.5	151.0	143.3	SHEELY CO
WASHINGTON COUNTY TOTAL				2331.8	2117.2	2857.5	4791.2	5730.4	4235.6	2531.4	2540.8	3003.0	3236.0	

REFERENCES

- Guswa, J. H., Siegel, D. I., and Gillies, D. C., 1982, Preliminary evaluation of the ground-water-flow system in the Twin Cities Metropolitan Area, Minnesota: U.S. Geological Survey Water-Resources Investigations 82-44, 69 p.
- Horn, M. A., 1983, Ground-water-use trends in the Twin Cities Metropolitan Area, Minnesota, 1880-1980: U.S. Geological Survey Water-Resources Investigations 83-4033, 37 p.
- Mann, W. B., IV, Moore, J. E., and Chase, E. B., 1982, A national water-use information program: U.S. Geological Survey Open-File Report 82-862, 12 p.
- Norvitch, R. F., Ross, T. G., and Brietkrietz, Alex, 1973, Water resources outlook for the Minneapolis-St. Paul Metropolitan Area: Metropolitan Council of the Twin Cities, 219 p.

☆ U.S. Government Printing Office: 1985-565-794/10122