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**DEPARTMENT OF  
NATURAL RESOURCES**

# SCORP

STATE COMPREHENSIVE OUTDOOR RECREATION PLAN

**PROJECTIONS OF WINTER RECREATION OCCASIONS**

1978 - 1995

Report Number 2319

800547

**Research and Policy Section, Office of Planning**

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PROJECTIONS OF WINTER RECREATION OCCASIONS

1978 - 1995

Compiled for

The Minnesota Department of Natural Resources  
Research and Policy Section, Office of Planning  
St. Paul, Minnesota

By: William Anthony

Institute of Outdoor Recreation and Tourism  
Utah State University  
Logan, Utah

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CAUTION:

The total of specific activity occasion projections will not equal the table of total activity. The reason for this is that there was a miscellaneous category that was not projected but was included in the totals.

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## PROJECTIONS OF WINTER RECREATION OCCASIONS

1978 - 1995

The long range planning of recreation resource development programs requires the planners to have some information concerning likely future levels of participation in each respective activity of concern. Beyond this, it is also useful to know both where these recreation occasions will originate and where they will take place. Hence, this report addresses the methodology and results of the long range projections of winter recreation occasions in each of Minnesota's 13 Development Regions for the years 1970, 1985, 1990 and 1995.

### Methodology Considerations

There are a variety of methods available for making long term projections. They range in complexity and sophistication from the intuitive judgment of an experienced manager to the development of multi-equation mathematical models. It is essential to keep in mind that the reliability of long range projections does not necessarily increase with the technological sophistication of the modeling methodology. Time after time, the intuitive judgment of a person with a good understanding of the elements underlying the activity being projected has out-performed the most complex mathematical systems which suffer from quantitative data limitations, unrealistic assumptions, and the inability to incorporate all the relevant factors which might influence the trend of an activity.

This is not to imply that statistical or mathematical modeling does not have utility. One of the primary benefits of modeling is derived from

the process itself. It requires managers to explicitly state their conceptual model of the real world and specify their assumptions of future environments. It then allows the manager to represent this mental framework in precise mathematical form and examine its results versus the real world. This exercise often leads to a clearer understanding of the process itself even if the model does not behave as would be expected a priori.

In the same general line of thought, output from any one of several modeling techniques chosen should not be accepted as the gospel's truth, but should be interpreted in conjunction with the manager's judgment of what reality is and will be.

In the end, the reliability of long range projections depends on realistic assumptions of future conditions and the development of an appropriate model to cope with these assumptions and existing available data. With this in mind, the research team evaluated two alternative methods which have been used in previous recreation forecasting endeavors. The first was multiple regression, and the second involves age and sex cohorts.

### Multiple Regression

Of the two, the most dynamic is multiple regression. It provides the researcher with a useful tool for testing the statistical relationships between the dependent variable (i.e. recreation occasions per region) and any combination of independent variables (i.e. any factors which might influence the amount of recreation occurring in each region). If an equation can be developed which has a good fit, explaining a satisfactory proportion of the variance in the dependent variable and yields

realistic output, then the resource manager is equipped with a planning tool with which he or she can change the assumptions concerning the future conditions of the independent variables in the equation and test the effects on the level of recreators in each region. This, in fact, is the type of modeling system that the research team will eventually attempt to construct in order to fulfill the Department of Natural Resources' need for a tool to evaluate recreation investments.\*

However, the implementation of multiple regression for long range projections requires that all independent variables which load significantly in the equations be projected as far into the future as the dependent variable is to be forecasted. While projections of population for each region by age and sex are available from the State Demographer, resource measures (i.e. number of boat ramps, vertical feet of ski lifts, etc.) are available only for 1978. While this may be sufficient for

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\* In fact, preliminary regressions to estimate the 1978 level of downhill skiing occasions in each region have been tested. Independent variables evaluated include vertical transport feet of ski lifts per region and relevant age/sex population concentrations per region. Equations with these two independent variables explained over 99 percent of the inter-regional variation in downhill skiing occasions and passed all tests of significance and goodness of fit. An attempt was also made to load a measure of regional per capita income into the equation. However, this variable did not pass the tests of significance. The equation still needs a few modifications before we are satisfied with the results.

investment modeling, it limits the use of regression for long range projections. Therefore, we have resorted to the age and sex cohort method for making long range projections of regional recreation activity in Minnesota.

#### The Age/Sex Cohort Method

The State Demographer's Office in Minnesota has published long range projections of the Minnesota population by sex and age (5 year groupings: i.e. 10-14, 15-19, etc.). We have categorized the recreation survey respondents into the same sex and age groups.

From the recreation survey sample data, we were able to calculate the average number of recreation occurrences per person for each age and sex group. This was done for each recreation activity. We then developed a computer program to execute the mechanics of the forecast.

The program first multiplies the per capita recreation participation factors for each age/sex group times the State Demographer's age/sex population projections for each of the thirteen development regions. This process calculates the point estimate of the expected number of recreation occasions for each activity which will originate in each region. These data are presented in Appendix A and will be discussed again later.

The next step was to allocate the total number of occasions for each activity that originated in each region to all other regions according to the 1978 inter-region recreation flows as determined from the survey. This process yielded the point estimate of the number of recreation occasions for each activity that will take place in each destination region. These results are presented in Appendix B.

This procedure was reiterated for the years 1980, 1985, 1990 and 1995 to produce the long range projections.

#### Assumptions and Limitations

There are a few assumptions which are inherent in this application of the age/sex cohort method of projection that should be addressed. The first is that per capita participation rates in each age/sex group are held constant over time. Obviously, this is a limiting assumption. We can realistically expect these factors to change over time as different age/sex groups move into and out of the market, as the recreation activity becomes more or less popular, or for any of many other reasons that a market can change. Unfortunately, no reliable information is currently available to measure these shifts and this limitation would be present regardless of the model used.

However, one questionnaire in the survey did inquire into both past changes in individual participation levels and future intentions of participation. This information, while not detailed enough for modeling purposes, should provide the manager with some useful information regarding future trends. Of course, it should be kept in mind that stated intentions of future behavioral changes are often not borne out in reality. Nonetheless, the results from this questionnaire will be analyzed and presented in one of the report series.

This limitation provides food for thought concerning future recreation studies. For instance, recreation participation surveys conducted over five-year intervals could provide planners with data on how these cohort participation rates change over time.

A second assumption is that the pattern of inter-regional recreation flows will remain constant over time. This is primarily a consequence of the limited data available concerning resource development at the regional level in the future. While this is a limitation of the age/sex cohort method, the regression models proposed for development later this year will permit the planner to make assumptions concerning changes in regional resource development (i.e. more or less ski lifts, trails, etc.) and test its effect on projected recreation flow patterns.

Finally, the projections are subject to interpretation limits. Confidence limits are not available on the projections because none exist for the State Demographer's population projections. Nor can we quantify the degree of error associated with our assumptions of future participation rates and inter-regional flows. Therefore, the point estimates provided should be interpreted with the fact in mind that the percentage errors about the estimates will grow larger the further into the future the projections are made. This phenomena exists regardless of the projection method employed.

Regardless of the limitations, the age/sex cohort method does provide a baseline projection which the resource manager can massage with intuitive reasoning. This is one purpose of making long range projections.

#### An Example Interpretation of the Tables

The tables in Appendix A contain the regional and state total long range projections of recreation occasions originating in each development region. Appendix B presents the tables of long range projections of recreation occasions occurring in each destination region.

Let's refer to Table 2, Appendix B, for an example. This table presents the long range projections of total cross country skiing occasions that might be expected to occur in each region given the framework of the projection methodology. From this table, we can see that in 1978, there were approximately 4.29 million resident skiing occasions in the state of Minnesota. This might climb 0.5% to 4.31 million in 1980 followed by another increase of 4.3% to 4.49 million occasions in 1985. Now, let's take a look at what might happen in Region 1. In 1978, there were approximately 32.5 thousand Minnesota resident cross country skiing occasions in Region 1. Due to the changing demographic profile, this may decline 1.1% to 32.2 thousand in 1980, but then an increase of 8.3% to a new high of 34.8 thousand may occur in 1985.

The tables in Appendix A can be read in a similar manner.

#### Summary

The cohort method is useful for developing long range projections given the current availability of data. Meanwhile, we are continuing to experiment with more dynamic planning models. Over the course of the year, we hope to provide the Minnesota Department of Natural Resources with the more powerful planning tools needed to plan and evaluate state funded recreation investments.

APPENDIX A

Projections of Winter Recreation Occasions Originating  
in each Development Region (Origin),  
1978 - 1995

TABLE 1A

Projections of Winter Camping Occasions Originating in Each Minnesota Region,  
1978 - 1995

REGION	<u>1978</u>	<u>1980</u>	<u>% Δ</u> <u>78-80</u>	<u>1985</u>	<u>% Δ</u> <u>80-85</u>	<u>1990</u>	<u>% Δ</u> <u>85-90</u>	<u>1995</u>	<u>% Δ</u> <u>90-95</u>
1	4644	4633	-0.2	4963	7.1	5651	13.9	5822	3.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	26563	27020	1.7	31284	15.8	31146	-0.4	27137	-12.9
4	3181	3151	-0.9	2822	-10.5	2755	-2.4	3161	14.8
5	5867	5969	1.7	5698	-4.5	5712	0.3	7472	30.8
6E	6345	6253	-1.4	6191	-1.0	6987	12.9	7173	2.7
6W	2773	2805	1.2	3764	34.2	3957	5.1	3422	-13.5
7E	8371	9072	8.4	10212	12.6	9553	-6.4	9068	-5.7
7W	14996	15885	5.9	17719	11.5	16745	-5.5	14830	-11.4
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	10748	10678	-0.6	9680	-9.4	8754	-9.6	8719	-0.4
11	80553	80891	0.4	82320	1.8	91456	11.1	104488	14.2
STATE TOTAL	164041	166357	1.4	174651	5.0	182717	4.6	191232	4.7

TABLE 2A

Projections of Total<sup>1</sup>Cross Country Skiing Occasions Originating in Each Minnesota Region,  
1978 - 1995

REGION	<u>1978</u>	<u>1980</u>	<u>% Δ</u> <u>78-80</u>	<u>1985</u>	<u>% Δ</u> <u>80-85</u>	<u>1990</u>	<u>% Δ</u> <u>85-90</u>	<u>1995</u>	<u>% Δ</u> <u>90-95</u>
1	39009	38586	-1.1	41772	8.3	42737	2.3	47602	11.4
2	83707	81919	-2.1	86548	5.7	84868	-1.9	85631	0.9
3	642828	616245	-4.1	619719	0.6	700621	13.1	712889	1.8
4	157453	156449	-0.6	159218	1.8	165774	4.1	168205	1.5
5	78228	80782	3.3	75990	-5.9	71061	-6.5	72672	2.3
6E	62541	61943	-1.0	58943	-4.8	60442	2.5	60275	-0.3
6W	17744	17721	-0.1	17041	-3.8	14814	-13.1	11735	-20.8
7E	46421	49622	6.9	54179	9.2	63390	17.0	64313	1.5
7W	233263	241497	3.5	257676	6.7	265359	3.0	274695	3.5
8	27013	25092	-7.1	20917	-16.6	21398	2.3	22595	5.6
9	68225	66404	-2.7	67493	1.6	72939	8.1	74074	1.6
10	150468	154631	2.8	161151	4.2	149991	-6.9	140366	-6.4
11	2828814	2869075	1.4	3037563	5.9	3226419	6.2	3396306	5.3
STATE TOTAL	4435714	4459967	0.5	4658209	4.4	4939812	6.0	5131358	3.9

<sup>1</sup> Includes unknown types of cross-country skiing

TABLE 3A

Projections of Cross Country Skiing (Trails) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	25577	26328	2.9	24721	-6.1	24772	0.2	24146	-2.5
2	38609	39889	3.3	42564	6.7	44699	5.0	46772	4.6
3	230408	228531	-0.8	246481	7.9	246215	0.1	230071	-6.8
4	51689	53956	4.4	49955	-7.4	46313	-7.3	45258	-2.3
5	52352	53570	2.3	60361	12.7	67699	12.1	63435	-5.6
6E	18443	18968	2.8	19364	2.1	19169	-1.0	21953	14.5
6W	7113	7577	6.5	7534	-0.6	6251	-17.0	5175	-17.2
7E	8257	8524	3.2	10246	20.2	11860	15.8	13510	13.9
7W	87017	92987	6.9	105187	13.1	106593	1.3	103202	-3.2
8	9823	10407	5.9	9714	-6.7	10263	5.7	9942	-3.1
9	30019	29489	-1.8	24573	-16.7	21631	-12.0	24082	11.3
10	90032	93329	3.7	90493	-3.0	85464	-5.6	82031	-4.0
11	1335563	1371476	2.7	1450825	5.8	1528925	5.4	1602032	4.8
STATE TOTAL	1984902	2035031	2.5	2142039	5.3	2220456	3.7	2272108	2.3

TABLE 4A

Projections of Cross Country Skiing (Free)<sup>1/</sup> Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	12503	11890	-4.9	10179	-14.4	10250	0.7	11265	9.9
2	40668	40348	-0.8	42954	6.5	47002	9.4	49506	5.3
3	406039	388336	-4.4	383274	-1.3	404496	5.5	421818	4.3
4	84293	86138	2.2	91440	6.2	97943	7.1	100546	2.7
5	16247	17276	6.3	16828	-2.6	16837	0.0	16239	-3.6
6E	36236	36142	-0.3	35731	-1.1	36507	2.2	42911	17.5
6W	7304	7071	-3.2	6354	-10.1	6568	3.4	7847	19.5
7E	34531	36891	6.8	40203	9.0	43912	9.2	47505	8.2
7W	121322	125105	3.1	140614	12.4	160425	14.1	172793	7.7
8	9823	10430	6.2	9781	-6.2	9290	-5.0	9564	3.0
9	38206	39584	3.6	39975	1.0	35362	-11.5	32631	-7.7
10	53271	52232	-1.9	50274	-3.7	47697	-5.1	47819	0.3
11	1276093	1298831	1.8	1347198	3.7	1416403	5.1	1456534	2.8
STATE TOTAL	2136536	2150274	0.6	2214805	3.0	2332691	5.3	2416979	3.6

<sup>1/</sup> Free style cross-country skiing involves skiing off-trails

TABLE 5A

Projections of Cross Country Skiing (Combined)<sup>1/</sup> Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	929	899	-3.2	697	-22.5	501	-28.1	618	23.4
2	4431	4405	-0.6	4233	-3.9	3246	-23.5	2963	-8.5
3	6381	6674	4.6	6135	-6.1	5129	-16.4	4642	-9.5
4	18290	18499	1.1	19973	8.0	25980	30.1	27703	6.6
5	5717	5650	-1.2	4891	-13.4	4176	-14.6	4176	0.0
6E	7862	7720	-1.8	7294	-5.5	7132	-2.2	9413	32.0
6W	3327	3107	-6.6	3777	21.5	4608	22.0	4471	-3.0
7E	1835	2035	10.9	2852	40.2	3309	16.0	4313	30.3
7W	24925	25395	1.9	30652	20.7	36575	19.3	40896	11.8
8	7367	8147	10.6	8486	4.2	8020	-5.5	6854	-14.5
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	7165	8304	15.9	9241	11.3	9009	-2.5	7412	-17.7
11	217159	226055	4.1	261535	15.7	286227	9.4	309960	8.3
STATE TOTAL	305388	316889	3.8	359765	13.5	393906	9.5	423426	7.5

<sup>1/</sup> Combined style cross-country skiing involves skiing both on and off-trail on the same occasion

TABLE 6A

Projections of Downhill Skiing Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	50155	50325	0.3	48019	-4.6	44581	-7.2	41147	-7.7
2	46610	45964	-1.4	45170	-1.7	43994	-2.6	44218	0.5
3	316102	304472	-3.7	270216	-11.3	256876	-4.9	257789	0.4
4	81112	78710	-3.0	68032	-13.6	70799	4.1	78767	11.3
5	41070	39668	-3.4	36689	-7.5	36721	0.1	36262	-4.2
6E	37162	38983	4.9	37149	-4.7	35248	-5.1	34551	-2.0
6W	15526	15104	-2.7	13277	-12.1	12064	-9.1	13075	8.4
7E	59358	61857	4.2	65211	5.4	71318	9.4	78239	9.7
7W	99970	103832	3.9	110293	6.2	116772	5.9	118866	1.8
8	24557	26171	6.6	26488	1.2	23234	-12.3	19880	-14.4
9	50681	49684	-2.0	45393	-8.6	42720	-5.9	43948	2.9
10	229285	232653	1.5	231944	-0.3	226995	-2.1	223476	-1.6
11	2596634	2643893	1.8	2602207	-1.6	2557605	-1.7	2614331	2.2
STATE TOTAL	3648222	3691316	1.2	3600888	-2.5	3538925	-1.7	3606568	1.9

TABLE 7A

Projections of Total <sup>1/</sup> Snowshoeing Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	9288	10348	11.4	16194	-1.5	8511	-16.5	7072	-16.9
2	42905	45309	5.8	52039	14.9	52510	0.9	53262	1.5
3	185942	183256	-1.4	172930	-5.6	183665	6.2	189917	3.4
4	30218	30463	0.8	32773	7.6	43743	33.5	46230	5.7
5	11734	13128	11.9	13890	5.8	12597	-9.3	11100	-11.9
6E	6345	6634	4.6	6393	-3.6	6312	-1.3	6815	8.0
6W	3882	3657	-5.8	4247	16.1	6125	44.2	6174	0.9
7E	15220	15817	3.9	16853	6.5	19348	14.8	20639	6.7
7W	44987	43709	-2.8	47727	9.2	53825	12.8	54487	1.2
8	11051	9851	-10.9	7062	-28.3	8789	24.5	9739	10.8
9	13645	12642	-7.3	12515	-1.0	14008	11.9	14329	2.3
10	64486	63518	-1.5	56979	-10.3	53953	-5.3	60879	12.8
11	104244	102000	-2.2	107110	5.0	117061	9.3	117649	0.5
STATE TOTAL	543847	540332	-0.6	540715	0.1	580447	7.3	598316	3.1

<sup>1/</sup> Includes unknown types of snowshoeing

TABLE 8A

Projections of Snowshoeing (Trail) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	10885	11327	4.1	13344	17.8	15498	16.1	15863	2.4
3	44030	46101	4.7	61132	32.6	72892	19.2	68531	-6.0
4	8482	8704	2.6	9093	4.5	10759	18.3	10702	-0.5
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	1586	1451	-8.5	1154	-20.5	1416	22.7	1600	13.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	1403	1338	-4.7	1050	-21.5	743	-29.2	923	24.1
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	0	0	0.0	0	0.0	0	0.0	0	0.0
11	55281	54841	-0.8	61653	12.4	63554	3.1	64854	2.0
STATE TOTAL	121667	123761	1.7	147426	19.1	164862	11.8	162473	-1.4

TABLE 9A

1/  
Projections of Snowshoeing (Free) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	3715	3860	3.9	5145	33.3	6887	33.9	6491	0.1
2	31445	31697	0.8	32064	1.2	34434	7.4	35375	5.6
3	118488	115816	-2.3	122920	6.1	134075	9.1	154771	15.4
4	4241	5112	20.5	5320	4.1	5050	-5.1	3883	-23.1
5	11734	11101	-5.4	15502	39.6	17252	11.3	17069	-1.1
6E	4759	4824	1.4	4426	-8.3	3577	-19.2	3178	-11.2
6W	3882	3746	-3.5	3662	-2.2	3687	0.7	3224	-12.6
7E	9639	10145	5.2	11528	13.6	11404	-1.1	14304	25.4
7W	44987	44507	-1.1	56286	26.5	66721	18.5	71078	6.5
8	5438	6050	11.2	5861	-3.1	4817	-17.8	3968	-19.7
9	13645	13766	0.9	14851	7.9	15374	3.6	14661	-4.7
10	38692	37745	-2.4	37457	-0.8	36367	-2.9	34696	-4.6
11	39487	40576	2.8	50241	23.8	53309	6.1	58046	8.9
STATE TOTAL	330152	328946	-0.4	365263	11.0	392961	7.6	422043	7.4

1/ Free style snowshoeing involves snowshoeing off of trails

TABLE 10A

1/  
Projections of Snowshoeing (Combined) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	15455	16278	5.3	15241	-6.4	11969	-21.5	9257	-22.7
4	11133	10611	-4.7	11359	7.1	15130	33.2	15635	3.3
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	4820	4743	-1.6	7945	67.5	9542	20.1	10328	8.2
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	4210	4050	-3.8	3401	-16.0	3026	-11.0	3182	5.2
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	25795	25733	-0.2	21311	-17.2	17956	-15.7	20863	16.2
11	0	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	61413	61414	0.0	59257	-3.5	57622	-2.8	59266	2.9

1/ Combined style snowshoeing involves snowshoeing on trails and off trails on the same occasion

TABLE 11A

Projections of Total Snowshoeing Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	218265	199902	-8.4	200881	0.5	209390	4.2	205746	-1.7
2	136024	126493	-7.0	141186	11.0	159322	12.8	167223	5.0
3	1585820	1471761	-7.2	1495522	1.6	1669378	11.6	1666105	-0.2
4	419875	400684	-4.6	462114	15.3	511098	10.6	499182	-2.5
5	220993	199821	-9.6	199907	0.0	221644	10.9	238175	7.5
6E	220254	205114	-6.9	222151	8.3	242562	9.2	249713	2.9
6W	85947	77373	-10.0	79757	3.1	82609	3.6	83032	0.5
7E	213840	207160	-3.1	231994	12.0	272772	17.6	304665	11.7
7W	706455	687900	-2.6	722206	5.0	792953	9.8	847249	6.8
8	182950	168680	-7.8	154910	-8.2	158291	2.2	152414	-3.7
9	368414	348901	-5.3	370154	6.1	398125	7.6	396248	0.0
10	598290	572575	-4.3	605661	5.8	675508	11.5	689588	2.1
11	7761471	7469551	-3.8	7994198	7.0	8447552	5.7	8536036	1.0
STATE TOTAL	12718598	12135915	-4.6	12880641	6.1	13841224	7.5	14036376	1.4

TABLE 12A

Projections of Figure Skating Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	6188	5662	-8.5	4812	-15.0	4810	-0.0	5339	11.0
2	16077	16199	0.8	17880	10.4	17525	-2.0	17133	-2.2
3	186596	174677	-6.4	162855	-6.8	167104	2.6	168794	1.0
4	43336	41791	-3.6	44075	5.5	48267	9.5	48644	0.8
5	20994	19407	-7.6	18110	-6.7	21616	19.4	22902	5.9
6E	9603	9502	-1.1	9091	-4.3	8414	-7.4	8389	-0.3
6W	9605	8936	-7.0	8290	-7.2	8442	1.8	7860	-6.9
7E	34286	32677	-4.7	33857	3.0	40449	19.5	46107	14.0
7W	85736	84734	-1.2	86193	1.7	90664	5.2	92411	1.9
8	6640	6286	-5.3	8096	28.8	8905	10.0	8325	-6.5
9	31138	30351	-2.5	32493	7.1	32485	-0.0	31191	-4.0
10	80987	76512	-5.5	67270	-12.1	74485	10.7	79394	6.6
11	464312	454140	-2.2	446511	-1.7	465277	4.2	481696	3.5
STATE TOTAL	995498	960874	-3.5	939533	-2.2	988445	5.2	1018186	3.0

TABLE 13A

Projections of Hockey Skating Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	105875	101587	-4.0	89307	-12.1	87635	-1.9	88602	1.1
2	54442	53335	-2.0	51084	-3.1	53388	3.3	53994	1.1
3	452967	414528	-8.5	376048	-9.3	390622	3.9	402018	2.9
4	91673	84353	-8.0	72413	-14.2	81689	12.8	90551	10.8
5	16013	14192	-11.4	12413	-12.5	14985	20.7	16414	9.5
6E	29214	27257	-6.7	22575	-17.2	24549	8.7	27993	14.0
6W	10160	9187	-9.6	7783	-15.3	8242	5.9	8539	3.6
7E	43115	41560	-3.6	41546	-0.0	48228	16.1	54820	13.7
7W	190864	185700	-2.7	182330	-1.8	202790	11.2	217107	7.1
8	11951	11887	-0.5	9882	-16.9	7846	-20.6	8600	9.7
9	55090	52878	-4.0	47238	-10.7	46969	-0.6	50365	7.2
10	160614	153421	-4.5	134304	-12.5	137999	2.8	155409	12.6
11	2936369	2884350	-1.8	2801664	-2.9	2786503	-0.5	2899483	4.1
STATE TOTAL	4158347	4034235	-3.0	3849188	-4.6	3891446	1.1	4073898	4.7

TABLE 14A

Projections of Free Style Skating Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	106202	98026	-7.7	102183	4.2	111048	8.7	111408	0.3
2	65505	63660	-2.8	68103	7.0	71940	5.6	70721	-1.7
3	946257	882403	-6.7	831962	-5.7	872269	4.8	889383	2.0
4	284866	267959	-5.9	270174	0.8	291611	7.9	301475	3.4
5	183987	170980	-7.1	157386	-8.0	169292	7.6	183038	8.1
6E	181437	171125	-5.7	159598	-6.7	183412	14.9	201239	9.7
6W	65628	60228	-8.2	52179	-13.4	55511	6.4	57421	3.4
7E	136439	132926	-2.6	140753	5.9	161196	14.5	178720	10.9
7W	428188	423080	-1.2	437032	3.3	483639	10.7	511543	5.8
8	164359	150298	-8.6	124375	-17.2	135480	8.9	144443	6.6
9	282187	272766	-3.3	277477	1.7	289972	4.5	292953	1.0
10	356688	342037	-4.1	341320	-0.2	357308	4.7	363842	1.8
11	4360790	4270101	-2.1	4379686	2.6	4608780	5.2	4756490	3.2
STATE TOTAL	7562533	7305588	-3.4	7342229	0.5	7791456	6.1	8062675	3.5

TABLE 15A

1/  
Projections of Total Snowmobiling Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	651080	627090	-3.7	650205	3.7	688783	5.9	684896	-0.6
2	381439	377237	-1.1	419124	11.1	472639	12.8	496376	5.0
3	1476912	1397322	-5.4	1398595	0.1	1449627	3.6	1416029	-2.3
4	889053	857176	-3.6	853808	-0.4	887856	4.0	927178	4.4
5	740229	751094	1.5	784447	4.4	800867	2.1	782292	-2.3
6E	443227	441626	-0.4	474780	7.5	500907	5.5	509002	1.6
6W	162467	153573	-5.5	146623	-5.8	154246	6.7	157989	2.4
7E	407894	409725	0.4	460915	12.5	531829	15.4	577944	8.7
7W	786431	779207	-0.9	839820	7.8	914618	8.9	997930	9.1
8	363844	351375	-3.3	345314	-1.7	356671	3.3	344313	-3.5
9	795307	768787	-3.3	760858	-1.0	800004	5.1	843088	5.4
10	1114180	1125077	1.0	1187551	5.6	1178756	-0.7	1112089	-5.7
11	3042042 11253765	3043636 11082925	0.1	3122513 10857373	2.6	3255226 11272029	4.3	3397300 12246426	4.4
STATE TOTAL			-1.5	*****	3.2		4.8		2.1

1/ Includes unknown types of snowmobiling

TABLE 16A

Projections of Snowmobiling (Trail) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	69735	67698	-2.9	67866	0.2	73666	8.5	74795	1.5
2	92193	94544	2.6	103166	9.1	105607	2.4	105839	0.2
3	674250	657661	-2.5	681394	3.6	753494	10.6	755872	0.3
4	238278	236429	-0.8	227930	-3.6	250657	10.0	267788	6.8
5	191520	187677	-2.0	195565	4.2	215131	10.0	236193	9.8
6E	78454	78238	-0.3	81706	4.4	90678	11.0	102396	12.9
6W	11734	11519	-1.8	12702	10.3	12872	1.3	11265	-12.5
7E	81120	84210	3.8	96265	14.3	104730	8.8	116512	11.2
7W	149017	151929	2.0	161147	6.1	181781	12.8	208797	14.9
8	67532	66911	-0.9	64693	-3.3	63224	-2.3	58619	-7.3
9	128437	128459	0.0	133253	3.7	141861	6.5	145327	2.4
10	396109	399865	0.9	388407	-2.9	375385	-3.4	386380	2.9
11	538231	552131	2.6	571736	3.6	587460	2.8	614735	4.6
STATE TOTAL	2716610	2717270	0.0	2785833	2.5	2956548	6.1	3084518	4.3

TABLE 17A

1/  
Projections of Snowmobiling (Free) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	420817	415709	-1.2	398534	-4.1	400076	0.4	419979	5.0
2	215001	211654	-1.6	222383	5.1	241330	8.5	254390	7.1
3	484588	464964	-4.0	440034	-5.4	453385	3.0	471922	4.1
4	391731	386725	-1.3	378784	-2.1	391628	3.4	415711	6.1
5	412060	403165	-2.2	368340	-8.6	362431	-1.5	406203	11.9
6E	257593	251667	-2.3	246135	-2.2	270368	9.6	295439	9.3
6W	128360	124673	-2.9	109487	-12.2	111809	2.1	117619	5.2
7E	232500	234029	0.7	249614	6.7	288318	15.5	319767	10.9
7W	474105	479457	1.1	493092	2.8	536879	8.9	585905	9.1
8	252323	243454	-3.5	210606	-13.4	219402	4.1	231539	5.5
9	520312	507497	-2.5	484777	-4.5	514782	6.2	568358	10.4
10	500386	501637	0.3	525078	4.7	546533	4.1	551060	0.8
11	1817341	1833648	0.9	1836211	0.1	1872408	2.0	1993796	6.5
STATE TOTAL	6107117	6058279	-0.8	5963274	-1.6	6209849	4.1	6635727	6.9

1/ Free style snowmobiling involves snowmobiling off trails

TABLE 18A

1/  
Projections of Snowmobiling (Combined) Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	154955	150381	-3.0	149438	-0.6	146166	-2.2	148211	1.4
2	73768	74304	0.7	78646	5.8	81385	3.5	88651	8.9
3	318073	308797	-2.9	273129	-11.6	266612	-2.4	274944	3.1
4	257455	253171	-1.7	256829	1.4	264668	3.1	275453	4.1
5	136648	132720	-2.9	132925	0.2	134118	0.9	146893	9.5
6E	107180	105666	-1.4	95585	-9.5	96548	1.0	110868	14.8
6W	22374	22510	0.6	24989	11.0	25344	1.4	22645	-10.6
7E	93512	95346	2.0	102271	7.3	126420	23.6	147803	16.9
7W	158310	156001	-1.5	155329	-0.4	175519	13.0	191373	9.0
8	43589	42907	-1.6	41876	-2.4	41364	-1.2	50308	21.6
9	142660	142450	-0.1	134660	-5.5	136897	1.7	142273	3.9
10	214103	212071	-0.9	229520	8.2	263664	14.9	280402	6.3
11	686471	708528	3.2	707366	-0.2	738131	4.3	789309	6.9
STATE TOTAL	2409098	2404852	-0.2	2382563	-0.9	2496837	4.8	2669133	6.9

1/ Combined style snowmobiling involves snowmobiling on trails and off trails on the same occasion

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TABLE 19A

Projections of Dog Sledding Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	3715	3576	-3.7	2925	-18.2	2663	-9.0	2569	-3.5
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	34532	34142	-1.1	35676	4.5	38507	7.9	38544	0.1
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	978	920	-5.9	1032	12.2	1518	47.0	1590	4.7
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	6665	6787	1.8	8967	32.1	10562	17.8	11253	6.5
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	1949	1915	-1.8	1551	-19.0	1407	-9.3	1635	16.2
10	0	0	0.0	0	0.0	0	0.0	0	0.0
11	4738	4755	0.4	3990	-16.1	3446	-13.6	3880	12.6
STATE TOTAL	52577	52095	-0.9	54141	3.9	58103	7.3	59471	2.4

TABLE 20A

Projections of Ice Fishing Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	132817	136096	2.5	138573	1.8	141756	2.3	137566	-3.0
2	110817	112938	1.9	122142	8.1	132386	8.4	146402	10.6
3	709236	721034	1.7	741270	2.8	742242	0.1	728740	-1.8
4	340353	340473	0.0	337120	-1.0	334387	-0.8	336506	0.6
5	402872	418029	3.8	442508	5.9	447428	1.1	457192	2.2
6E	167683	169652	1.2	176186	3.9	186775	6.0	198798	6.4
6W	58777	60063	2.2	63005	4.9	64231	1.9	62219	-3.1
7E	206230	213100	3.3	246567	15.7	286181	16.1	322421	12.7
7W	619814	646033	4.2	696315	7.8	758053	8.9	824371	8.7
8	116646	116467	-0.2	124171	6.6	129344	4.2	121920	-5.7
9	300190	303884	1.2	308937	1.7	309464	0.2	312763	1.1
10	204207	206245	1.0	211186	2.4	217322	2.9	226825	5.3
11	1786370	1837161	2.8	1925510	4.8	1985637	3.1	2086287	5.1
STATE TOTAL	5156012	5281175	2.4	5533490	4.8	5735207	3.6	5964010	4.0

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TABLE 21A

Projections of Open Water Fishing Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	951	958	0.7	745	-22.3	655	-12.0	748	21.8
3	0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	761	751	-1.4	776	3.4	1045	34.6	2262	116.5
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	25078	25543	1.9	26713	4.6	24952	-6.6	23291	-6.7
11	9477	9908	4.5	11263	13.7	11386	1.1	10408	-8.6
STATE TOTAL	36267	37160	2.5	39497	6.3	38038	-3.7	36758	-3.4

TABLE 22A

Projections of Total Hunting Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	107739	92688	-14.0	115449	24.6	129640	12.3	126523	-2.4
2	26159	24353	-6.9	30362	24.7	32982	8.6	32151	-2.5
3	265632	240863	-9.3	284969	18.3	303897	6.6	286520	-5.7
4	132006	123881	-6.2	151517	22.3	164705	8.7	158555	-3.7
5	78228	67488	-13.7	85575	26.8	97706	14.2	97730	0.0
6E	57103	0	0.0	0	0.0	0	0.0	0	0.0
6W	37151	31482	-15.3	40095	27.4	45447	13.3	43671	-3.9
7E	48704	0	0.0	0	0.0	0	0.0	0	0.0
7W	123296	114575	-7.1	142781	24.6	163702	14.7	168964	3.2
8	69988	59875	-14.4	75493	26.1	83631	10.8	80083	-4.2
9	148146	141609	-4.4	165041	16.5	175377	6.3	169458	-3.4
10	243615	225582	-7.4	263271	16.7	286510	8.8	284432	-0.7
11	165843	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	1503610	1122415	-25.4	1354553	20.7	1483597	9.5	1448087	-2.4

TABLE 23A

Projections of Upland Bird Hunting Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	1902	1936	1.6	2021	4.4	2004	-0.8	2458	22.6
3	2656	2583	-2.8	2466	-4.5	2152	-12.7	2056	-4.4
4	23857	24263	1.7	25629	5.6	23639	-7.8	29727	25.8
5	5867	6910	17.6	7596	9.9	7373	-2.9	6262	-15.1
6E	15409	15954	3.5	14551	-8.8	12134	-16.6	12617	4.0
6W	555	492	-11.4	340	-30.8	427	25.5	486	13.6
7E	761	823	8.1	914	11.0	808	-11.5	730	-9.7
7W	9997	10685	6.9	12441	16.4	13785	10.8	13616	-1.2
8	2456	2446	-0.4	2086	-14.7	1579	-24.3	1345	-14.8
9	1949	2183	12.0	2332	6.8	2266	-2.9	1830	-19.2
10	3583	3607	0.7	5353	48.4	5910	10.4	5632	-1.3
11	14215	14695	3.4	15914	8.3	17355	9.1	16524	-4.8
STATE TOTAL	83207	86577	4.1	91643	5.9	89433	-2.4	93484	4.5

TABLE 24A

Projections of Big Game Hunting Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	13003	12935	-0.5	13262	2.5	13845	4.4	13998	1.1
2	1902	2021	6.3	1902	-5.9	1854	-2.5	1674	-9.7
3	18594	18012	-3.1	16656	-7.5	15307	-8.1	14869	-2.9
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	1956	2043	4.5	1932	-5.5	1489	-22.9	1083	-27.3
6E	2719	2889	6.2	2894	0.2	2666	-7.9	2583	-3.1
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	14996	15454	3.1	17825	15.3	19961	12.0	22311	11.8
8	2456	2500	1.8	2214	-11.5	1721	-22.3	1207	-29.8
9	1949	2101	7.8	2953	40.5	3183	7.8	3052	-4.1
10	10748	11382	5.9	11610	2.0	9978	-14.1	8351	-16.3
11	18954	18884	-0.4	16417	-2.5	21276	15.5	23090	8.5
STATE TOTAL	87277	88222	1.1	86665	1.6	91280	1.8	92218	1.0

TABLE 25A

Projections of Waterfowl Hunting Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	978	1054	7.8	1047	-0.7	1707	63.0	1932	13.2
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	7165	7755	8.2	7988	3.0	11648	45.8	12895	10.7
11	0	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	8143	8809	8.2	9035	2.6	13355	47.8	14827	11.0

TABLE 26A

Projections of Miscellaneous Hunting Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	94736	94632	-0.1	89267	-5.7	86633	-3.0	87285	0.8
2	22354	23201	3.8	25162	8.5	25014	-0.6	25549	2.1
3	244381	242749	-0.7	243339	0.2	259985	6.8	257220	-1.1
4	108150	109046	0.8	109189	0.1	114216	4.6	117638	3.0
5	69427	74507	7.3	77097	3.5	74459	-3.4	72140	-3.1
6E	38975	40571	4.1	39699	-2.1	38813	-2.2	36230	-6.7
6W	36597	35380	-3.3	32268	-8.8	32909	2.0	38851	18.1
7E	47943	51412	7.2	62742	22.0	71810	14.5	83219	15.9
7W	98304	98768	0.5	104484	5.8	119629	14.5	129085	7.9
8	65076	67047	3.0	64114	-4.4	63028	-1.7	61260	-2.8
9	144247	143125	-0.8	138709	-3.1	136418	-1.7	141973	4.1
10	222120	227732	2.5	233698	2.6	246678	5.6	259725	5.3
11	132675	138052	4.1	137579	-0.3	137183	-0.3	140786	2.6
STATE TOTAL	1324985	1346220	1.6	1357346	0.8	1406775	3.6	1450962	3.1

TABLE 27A

Projections of Trapping Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	40867	41952	2.7	40115	-4.4	44039	11.3	50831	13.9
2	27110	28154	3.9	30493	8.3	32042	5.1	34445	7.5
3	138128	132093	-4.4	128428	-2.8	142967	11.3	150411	5.2
4	60437	64230	6.3	63125	-1.7	73849	17.0	74371	0.7
5	49870	47808	-4.1	38034	-20.4	36262	-4.7	46997	29.6
6E	44413	46784	5.3	44094	-5.8	37549	-14.8	34516	-8.1
6W	19407	17907	-7.7	13910	-22.3	16583	19.2	19280	16.3
7E	13698	13428	-2.0	13523	0.7	15897	16.9	19187	21.4
7W	56650	58249	2.8	54149	-7.0	50384	-7.0	55631	10.4
8	23329	22078	-5.4	17437	-21.0	15692	-10.0	16576	5.6
9	11696	11798	0.9	11198	-5.1	9298	-17.0	9167	-1.4
10	42991	43442	1.0	42519	-2.1	43112	1.4	40914	-5.1
11	75814	77270	1.9	70528	-8.7	64366	-8.7	69554	8.0
STATE TOTAL	604410	605193	0.1	567552	-6.2	502571	2.6	621881	6.7

TABLE 28A

Projections of Ice Boating Originating in Each Minnesota Region  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0	0.0	0	0.0	0	0.0	0	0.0
4	1590	1916	20.5	1995	4.1	1893	-5.1	1456	-23.1
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	3327	3220	-3.2	2961	-8.1	2447	-17.4	2289	-6.4
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	1666	1750	5.0	2018	15.3	1863	-7.7	1613	-13.4
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	3583	4153	15.9	4621	11.3	4505	-2.5	3706	-17.7
11	4738	5000	5.5	5820	16.4	5913	1.6	4971	-15.9
STATE TOTAL	14904	16039	7.6	17415	8.6	16621	-4.6	14035	-15.6

TABLE 29A

Projections of Sledding Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	243342	224115	-7.9	210420	-6.1	225324	7.1	230838	2.4
2	168366	158651	-5.8	169751	7.0	186723	10.0	189858	1.7
3	1054557	969920	-8.0	945809	-2.5	1018366	7.7	1012513	-0.6
4	453274	427227	-5.7	430549	2.9	481202	9.5	488775	1.6
5	314866	291037	-7.6	290337	-0.2	317540	9.4	338514	6.6
6E	150461	142097	-5.6	147954	3.8	167547	13.6	176252	5.2
6W	144723	133484	-7.8	134286	0.6	142698	6.3	139392	-2.3
7E	181117	177005	-2.3	194982	10.2	227133	16.5	248527	9.4
7W	798094	774820	-2.9	810928	4.7	834368	15.2	1009500	8.0
8	192773	177342	-8.0	180108	1.6	199293	10.7	198530	-0.4
9	389857	375281	-3.7	380122	1.3	395973	4.2	396003	0.0
10	834740	798160	-4.4	797913	-0.0	888919	11.0	919466	3.4
11	4473033	4317213	-3.5	4504783	4.3	4813010	6.8	4914708	2.1
STATE TOTAL	9399203	8966353	-4.6	9206444	2.7	9998115	8.6	10262916	2.6

TABLE 30A

Projections of Snowtubing Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	6502	6132	-5.7	5815	-5.2	6409	10.2	6357	-0.8
2	4281	4428	3.4	4549	2.7	5270	15.8	6069	15.2
3	37188	37523	0.9	39472	5.2	37503	-5.0	34146	-8.9
4	47713	45821	-4.0	45046	-1.7	47285	5.0	48755	3.1
5	15646	15322	-2.1	15858	3.5	17325	9.3	19371	11.8
6E	9970	10065	1.0	9445	-6.2	9361	-0.9	10847	15.9
6W	10535	10167	-3.5	10032	-1.3	10323	2.9	10256	-0.7
7E	25874	25403	-1.8	28199	11.0	31639	12.2	33763	6.7
7W	28325	28396	0.3	29947	5.5	34412	14.9	37937	10.2
8	52798	47676	-9.7	38431	-19.4	44823	16.6	48604	8.4
9	37036	35688	-3.6	32671	-8.5	32110	-1.7	33828	5.3
10	53739	50136	-6.7	44792	-10.7	49055	9.5	52809	7.7
11	412239	404879	-1.8	409463	1.1	420935	2.8	428250	1.7
STATE TOTAL	741846	721635	-2.7	713720	-1.1	746449	4.6	770994	3.3

TABLE 31A

Projections of Orienteering Originating in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	37188	35342	-5.0	35273	-0.2	44490	26.1	46535	4.6
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	1956	2013	2.9	1804	-10.4	2470	36.9	2861	15.8
6E	932	853	-8.5	678	-20.5	832	22.7	940	13.0
6W	555	704	26.9	790	12.2	639	-19.2	483	-24.4
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	3899	3549	-9.0	3150	-11.2	3662	16.3	3892	6.3
10	0	0	0.0	0	0.0	0	0.0	0	0.0
11	23692	24120	1.8	22947	-4.9	21358	-6.9	21288	-0.3
STATE TOTAL	68222	66581	-2.4	64642	-2.9	73452	13.6	75996	3.5



APPENDIX B

Projections of Winter Recreation Occasions Occurring in  
each Development Region (Destination),

1978 - 1995

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TABLE 1B

Projections of Winter Camping Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	929	927	-0.2	993	7.1	1131	13.9	1165	3.0
2	5483	5423	-1.1	5502	1.4	6226	13.2	6399	2.8
3	64751	66046	2.0	71323	8.0	73079	2.5	72964	-0.2
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	3911	3979	1.7	3798	-4.5	3808	0.3	4981	30.8
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	18927	19543	3.3	20833	6.6	21371	2.6	21989	2.9
7W	6665	7000	5.9	7875	11.5	7492	-5.5	6591	-11.4
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	554	560	1.2	752	34.2	791	5.1	684	-13.5
10	7165	7118	-0.6	6453	-9.4	5836	-9.6	5812	-0.4
11	26851	26964	0.4	27440	1.8	30485	11.1	34829	14.2
STATE TOTAL	135236	137620	1.8	144968	5.3	150168	3.6	155415	3.5

TABLE 2B

<sup>1/</sup>  
Projections of Total Cross Country Skiing Occasions in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	32508	32155	-1.1	34810	8.3	35615	2.3	39669	11.4
2	117370	115570	-1.5	120835	4.6	120914	0.1	122587	1.4
3	731290	706922	-3.3	715225	1.2	799666	11.8	816727	2.1
4	154561	154208	-0.2	157239	2.0	163505	4.0	166783	2.0
5	161523	165508	2.5	162754	-1.7	160475	-1.4	166034	3.5
6E	55435	54917	-0.9	52273	-4.8	53374	2.1	52966	-0.8
6W	16245	15884	-2.2	15044	-5.3	14550	-3.3	13727	-5.7
7E	73853	77190	4.5	83087	7.6	92987	11.9	95542	2.7
7W	194972	201461	3.3	214716	6.6	221907	3.3	229977	3.6
8	31854	30475	-4.3	27775	-8.9	28852	3.9	30420	5.5
9	125819	124383	-1.1	128405	3.2	137815	7.3	141932	3.0
10	175451	179705	2.4	187541	4.4	178701	-4.7	170774	-4.4
11	2415352	2449794	1.4	2593233	5.9	2752795	6.2	2895987	5.2
STATE TOTAL	4286233	4308171	0.5	4492938	4.3	4761155	6.0	4943131	3.8

<sup>1/</sup> Includes unknown types of cross-country skiing

TABLE 3B

Projections of Cross Country Skiing (Trails) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	20005	20592	2.9	19336	-6.1	19375	0.2	18886	-2.5
2	72769	75597	3.9	78070	3.3	79429	1.7	81118	2.1
3	265093	265278	0.1	285707	7.7	288820	1.1	275659	-4.6
4	41473	43266	4.3	43602	0.8	42947	-1.5	42838	-0.3
5	54210	55486	2.4	62099	11.9	69362	11.7	65573	-5.5
6E	18844	19519	3.6	19820	1.5	18981	-4.2	20687	9.0
6W	5783	6149	6.3	5986	-2.6	5411	-9.6	4770	-11.8
7E	18254	19233	5.4	22307	16.0	23951	7.4	25035	4.5
7W	51510	55009	6.8	62128	12.9	62938	1.3	61094	-2.9
8	12150	12691	4.5	12558	-1.0	13252	5.5	13343	0.7
9	45642	45892	0.5	43650	-4.9	42789	-2.0	46006	7.5
10	119523	123340	3.2	123913	0.5	122459	-1.2	121910	-0.4
11	1147481	1178689	2.7	1247510	5.8	1314195	5.3	1376302	4.7
STATE TOTAL	1872737	1920741	2.6	2026687	5.5	2103911	3.8	2153222	2.3

TABLE 4B

Projections of Cross Country Skiing (Free)<sup>1/</sup> Occasions Occurring in Each Minnesota Region  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	12503	11890	-4.9	10179	-14.4	10250	0.7	11265	9.9
2	39241	38932	-0.8	41447	6.5	45352	9.4	47769	5.3
3	443375	426985	-3.7	424132	-0.7	447790	5.6	466511	4.2
4	97249	99347	2.2	104830	5.5	111740	6.6	114750	2.7
5	103917	106091	2.1	108995	2.7	113837	4.4	117454	3.2
6E	28729	28632	-0.3	28238	-1.4	28859	2.2	33936	17.6
6W	6099	5904	-3.2	5306	-10.1	5485	3.4	6553	19.5
7E	48608	51035	5.0	54698	7.2	59001	7.9	62765	6.4
7W	126461	130193	3.0	145070	11.4	164252	13.2	176302	7.3
8	12337	12844	4.1	12633	-1.6	12621	-0.1	12986	2.0
9	80177	82065	2.4	84407	2.9	84352	-0.1	84282	-0.1
10	53271	52232	-1.9	50274	-3.7	47697	-5.1	47819	0.3
11	1048148	1066937	1.8	1106870	3.7	1163612	5.1	1196561	2.8
STATE TOTAL	2100115	2113088	0.6	2177079	3.0	2294849	5.4	2378955	3.7

<sup>1/</sup> Free style cross-country skiing involves skiing off trails

TABLE 5B

Projections of Cross Country Skiing (Combined)<sup>1/</sup> Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	5359	5308	-0.9	4971	-6.4	3779	-24.0	3561	-5.2
3	22822	23271	2.0	25199	8.3	28481	13.0	30428	6.8
4	11928	12064	1.1	13026	8.0	16943	30.1	18067	6.6
5	1805	1784	-1.2	1544	-13.4	1318	-14.6	1318	0.0
6E	7862	7720	-1.8	7294	-5.5	7132	-2.2	9413	32.0
6W	2772	2589	-6.6	3147	21.5	3839	22.0	3725	-3.0
7E	6991	7392	5.7	9012	21.9	10035	11.4	11540	15.0
7W	16101	16404	1.9	19800	20.7	23627	19.3	26418	11.8
8	7367	8147	10.6	8486	4.2	8020	-5.5	6854	-14.5
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	2656	2778	4.6	2554	-8.1	2135	-16.4	1932	-9.5
11	219722	229380	4.4	265101	15.6	289273	9.1	311233	7.6
STATE TOTAL	365385	316837	3.8	360133	13.7	394584	9.6	424510	7.6

<sup>1/</sup> Combined style cross-country skiing involves skiing both on and off trail on the same occasion

TABLE 6B

Projections of Downhill Skiing Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	19505	19571	0.3	18674	-4.6	17337	-7.2	16002	-7.7
2	58634	57857	-1.3	56217	-2.8	54388	-3.3	54116	-0.5
3	564348	558227	-1.1	521286	-6.6	506398	-2.9	515245	1.7
4	61298	60139	-1.9	53674	-10.8	54838	2.2	59521	8.5
5	23841	23235	-2.5	21707	-6.6	21891	0.8	22954	4.9
6E	3041	3214	5.7	3154	-1.9	2881	-8.6	2654	-7.9
6W	12699	12723	0.2	11952	-6.1	11214	-6.2	11536	2.9
7E	157070	160680	2.3	160778	0.1	162835	1.3	169963	4.4
7W	129857	134382	3.5	137970	2.7	141878	2.8	143690	1.3
8	7922	8400	6.0	8442	0.5	7417	-12.1	6428	-13.3
9	50945	50860	-0.2	47588	-6.4	44640	-6.2	44828	0.4
10	239125	242962	1.6	240930	-0.8	235951	-2.1	235526	-0.2
11	1331941	1355823	1.8	1334319	-1.6	1311031	-1.7	1338810	2.1
STATE TOTAL	2660226	2688073	1.0	2616689	-2.7	2572699	-1.7	2621274	1.9

TABLE 7B

Projections of Total <sup>1/</sup>Snowshoeing Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	13542	14154	4.5	13648	-3.6	12928	-5.3	12198	-5.6
2	57719	60419	4.7	65873	9.0	68900	4.6	69501	0.9
3	174743	172176	-1.5	163099	-5.3	173413	6.3	179122	3.3
4	13199	13319	0.9	14349	7.7	19050	32.8	20120	5.6
5	23628	25145	6.4	26808	6.6	29631	10.5	29140	-1.7
6E	6345	6634	4.6	6393	-3.6	6312	-1.3	6815	8.0
6W	5831	5461	-6.3	6014	10.1	8061	34.0	8160	1.2
7E	14459	15026	3.9	16010	6.5	18381	14.8	19607	6.7
7W	46214	44888	-2.9	48958	9.1	55226	12.8	55918	1.3
8	9823	8756	-10.9	6277	-28.3	7812	24.5	8657	10.8
9	11696	10837	-7.3	10728	-1.0	12007	11.9	12282	2.3
10	64486	63518	-1.5	56979	-10.3	53953	-5.3	60879	12.8
11	94768	92728	-2.2	97374	5.0	106420	9.3	106954	0.5
STATE TOTAL	536453	533061	-0.6	532509	-0.1	572093	7.4	589353	3.0

<sup>1/</sup> Includes unknown types of snowshoeing

TABLE 8B

Projections of Snowshoeing (Trail) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	7969	8344	4.7	11064	32.6	13193	19.2	12403	-6.0
2	10885	11327	4.1	13344	17.8	15498	16.1	15863	2.4
3	36061	37757	4.7	50068	32.6	59699	19.2	56128	-6.0
4	8482	8704	2.6	9093	4.5	10759	18.3	10702	-0.5
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	1586	1451	-8.5	1154	-20.5	1416	22.7	1600	13.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	1403	1338	-4.7	1050	-21.5	743	-29.2	923	24.1
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	0	0	0.0	0	0.0	0	0.0	0	0.0
11	55281	54841	-0.8	61653	12.4	63554	3.1	64854	2.0
STATE TOTAL	121667	123761	1.7	147426	19.1	164862	11.8	162473	-1.4

TABLE 9B

1/  
Projections of Snowshoeing (Free) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	35160	35561	1.1	37250	4.7	41406	11.2	43345	4.7
3	118488	115816	-2.3	122920	4.1	134075	9.1	154771	15.4
4	4241	5112	20.5	5320	4.1	5050	-5.1	3883	-23.1
5	11734	11101	-5.4	15502	39.6	17252	11.3	17009	-1.1
6E	4759	4424	-7.0	4426	-0.3	3577	-19.2	3178	-11.2
6W	5831	5720	-1.9	5809	1.0	5415	-6.8	5361	-1.0
7E	9639	10145	5.2	11528	13.6	11404	-1.1	14304	25.4
7W	46214	46071	-0.3	57329	24.4	66845	16.6	70549	5.5
8	4210	4684	11.2	4537	-3.1	3729	-17.8	2994	-19.7
9	11696	11800	0.9	12729	7.9	13182	3.6	12566	-4.7
10	38692	37745	-2.4	37457	-0.8	36367	-2.9	34696	-4.6
11	39487	40576	2.8	50241	23.8	53309	6.1	58046	8.9
STATE TOTAL	330151	329155	-0.3	365048	10.9	392112	7.4	420761	7.3

1/ Free style snowshoeing involves snowshoeing off of trails

TABLE 10B

1/  
Projections of Snowshoeing (Combined) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	15455	16278	5.3	15241	-6.4	11969	-21.5	9257	-22.7
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	11133	10611	-4.7	11359	2.1	15130	33.2	15635	3.3
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	4820	4743	-1.6	7945	67.5	9542	20.1	10328	8.2
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	4210	4050	-3.8	3401	-16.0	3026	-11.0	3182	5.2
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	25795	25733	-0.2	21311	-17.2	17956	-15.7	20863	16.2
11	0	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	61413	61414	0.0	59257	-3.5	57622	-2.8	59266	2.9

1/ Combined style snowshoeing involves snowshoeing on and off trails on the same occasion

TABLE 11B

Projections of Total Ice Skating Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	212168	194520	-8.3	195625	0.6	204109	4.3	200493	-1.6
2	155769	144758	-7.1	159800	10.4	179603	12.4	187431	4.4
3	1573326	1460831	-7.2	1485374	1.7	1656871	11.5	1653976	-0.2
4	441675	422107	-4.4	482617	14.3	533497	10.5	524442	-1.7
5	245228	223353	-8.9	225225	0.8	248086	10.2	264440	6.6
6E	197571	183925	-6.9	199105	8.3	217307	9.1	223647	2.9
6W	88763	80512	-9.3	83339	3.5	86563	3.9	87068	0.6
7E	257517	248862	-3.4	276168	11.0	319375	15.6	351517	10.1
7W	700369	681429	-2.7	715856	5.1	785239	9.7	837772	6.7
8	223560	210555	-5.8	209513	-0.5	218539	4.3	216665	-0.9
9	390070	369596	-5.2	392273	6.1	421674	7.5	422018	0.1
10	626349	599601	-4.3	634640	5.8	705143	11.1	719356	2.0
11	7586927	7301280	-3.8	7813724	7.0	8259444	5.7	8347785	1.1
STATE TOTAL	12699292	12121329	-4.6	12873259	6.2	13835450	7.5	14037011	1.5

TABLE 12B

Projections of Figure Skating Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	5259	4812	-8.5	4089	-15.0	4088	-0.0	4538	11.0
2	26227	25718	-1.9	26797	4.2	26662	-0.5	26354	-1.2
3	185386	174157	-6.1	163096	-6.4	167577	2.7	169667	1.2
4	44790	43186	-3.6	45492	5.3	49815	9.5	50225	0.8
5	20016	18503	-7.6	17266	-6.7	20609	19.4	21835	5.9
6E	7790	7708	-1.1	7375	-4.3	6826	-7.4	6805	-0.3
6W	9605	8936	-7.0	8290	-7.2	8442	1.8	7860	-6.9
7E	34286	32677	-4.7	33857	3.6	40449	19.5	46107	14.0
7W	85842	84881	-1.2	86218	1.6	90442	4.9	92145	1.9
8	6639	6285	-5.3	8094	28.8	8904	10.0	8324	-6.5
9	31138	30351	-2.5	32493	7.1	32485	-0.0	31191	-4.0
10	80987	76512	-5.5	67270	-12.1	74485	10.7	79394	6.6
11	454835	444871	-2.2	437397	-1.7	455781	4.2	471864	3.5
STATE TOTAL	992840	958596	-3.4	937736	-2.2	986565	5.2	1016309	3.0

TABLE 13B

Projections of Hockey Skating Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	104564	100387	-4.0	88680	-11.7	87555	-1.3	88792	1.4
2	58135	56892	-2.1	54870	-3.6	56546	3.1	57187	1.1
3	444339	407030	-8.4	369619	-9.2	383694	3.8	394952	2.9
4	92624	85284	-7.9	73315	-14.0	82621	12.7	91494	10.7
5	16013	14192	-11.4	12413	-12.5	14985	20.7	16414	9.5
6E	29214	27257	-6.7	22575	-17.2	24549	8.7	27993	14.0
6W	9605	8685	-9.6	7358	-15.3	7792	5.9	8072	3.6
7E	60235	58359	-3.1	57890	-0.8	64635	11.7	71992	11.4
7W	190011	184906	-2.7	181397	-1.9	200742	10.7	214703	7.0
8	35687	35229	-1.3	32256	-8.4	29743	-7.8	31468	5.8
9	55090	52878	-4.0	47238	-10.7	46969	-0.6	50365	7.2
10	156124	149041	-4.5	130536	-12.4	134148	2.8	150883	12.5
11	2906707	2854184	-1.8	2771025	-2.9	2757567	-0.5	2870159	4.1
STATE TOTAL	4158348	4034324	-3.0	3849171	-4.6	3891547	1.1	4074475	4.7

TABLE 14B

Projections of Free Style Skating Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	102346	94467	-7.7	98473	4.2	107016	8.7	107363	0.3
2	71407	69195	-3.1	73118	5.7	77810	6.4	77300	-0.7
3	943601	879926	-6.7	829627	-5.7	869820	4.8	886886	2.0
4	304262	287160	-5.6	289960	1.0	313585	8.1	324794	3.6
5	209200	196070	-6.3	184281	-6.0	197578	7.2	211683	7.1
6E	160567	151415	-5.7	141152	-6.8	162142	14.9	177846	9.7
6W	69553	64210	-7.7	56556	-11.9	60272	6.6	62484	3.7
7E	162996	158717	-2.6	166103	4.7	186075	12.0	202676	8.9
7W	424476	418760	-1.3	431313	3.0	476898	10.6	504368	5.8
8	181234	167158	-7.8	142670	-14.6	154712	8.4	164264	6.2
9	303843	293861	-3.3	298733	1.7	312784	4.7	316924	1.3
10	387571	372564	-3.9	373007	0.1	390726	4.8	398526	2.0
11	4224831	4136786	-2.1	4242772	2.6	4465356	5.2	4609065	3.2
STATE TOTAL	7545887	7290290	-3.4	7327765	0.5	7774775	6.1	8044179	3.5

TABLE 15B

1/  
Projections of Total Snowmobiling Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	625644	603038	-3.6	625179	3.7	662114	5.9	659026	-0.5
2	407742	402621	-1.3	444066	10.3	497593	12.1	520914	4.7
3	1636965	1565366	-4.4	1575795	0.7	1636841	3.9	1621202	-1.0
4	930840	898869	-3.4	897786	-0.1	935332	4.2	976334	4.4
5	919896	928889	1.0	967064	4.1	995591	2.9	993742	-0.2
6E	380805	378346	-0.6	403735	6.7	425674	5.4	433014	1.7
6W	156687	148250	-5.4	139856	-5.7	149065	6.6	152688	2.4
7E	565448	566719	0.2	616897	9.2	692591	11.9	742894	7.3
7W	869258	862863	-0.7	919418	6.6	989551	7.6	1064050	7.5
8	326330	315528	-3.3	310309	-1.7	320640	3.3	309833	-3.4
9	789628	764417	-3.2	758858	-0.7	797512	5.1	838283	5.1
10	1135806	1146032	0.9	1207466	5.4	1203203	-0.4	1144612	-4.9
11	2299074	2300287	0.1	2361924	2.7	2464659	4.3	2572900	4.4
STATE TOTAL	11044123	10881255	-1.5	11230353	3.2	11770366	4.8	12029392	2.2

1/ Includes unknown types of snowmobiling

TABLE 16B

Projections of Snowmobiling (Trail) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	69576	67878	-2.4	68252	0.6	73714	8.0	75047	1.8
2	101256	102895	1.6	110022	6.9	114124	3.7	116417	2.0
3	664828	650292	-2.2	673909	3.6	742146	10.1	746193	0.5
4	255816	254423	-0.5	248097	-2.5	270450	9.0	286350	5.9
5	225212	222182	-1.3	231973	4.4	254679	9.8	280243	10.0
6E	45103	45026	-0.2	46909	4.2	51308	9.4	56082	9.3
6W	10596	10398	-1.9	11356	9.2	11673	2.8	10679	-8.5
7E	141531	145659	2.9	158807	9.0	168898	6.4	183285	8.5
7W	150925	153938	2.0	163016	5.9	182805	12.1	208840	14.2
8	55253	54745	-0.9	52930	-3.3	51729	-2.3	47961	-7.3
9	110894	110913	0.0	115053	3.7	122484	6.5	125477	2.4
10	398337	402262	1.0	391598	-2.7	379517	-3.1	391021	3.0
11	368076	377638	2.6	391564	3.7	402663	2.8	421752	4.7
STATE TOTAL	2597403	2598249	0.0	2663487	2.5	2826187	6.1	2949348	4.4

TABLE 17B

1/

Projections of Snowmobiling (Free) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	414738	409703	-1.2	392777	-4.1	394296	0.4	413912	5.0
2	218691	215405	-1.5	225780	4.0	244641	8.4	261922	7.1
3	557906	539590	-3.3	515600	-4.4	531141	3.0	555789	4.6
4	384879	379949	-1.3	372062	-2.1	384620	3.4	408340	6.2
5	497084	489734	-1.5	457566	-6.6	455718	-0.4	504196	10.6
6E	225545	220253	-2.3	214481	-2.6	235134	9.6	256694	9.2
6W	131167	127419	-2.9	112251	-11.9	114809	2.3	121017	5.4
7E	253706	254983	0.5	268881	5.5	305407	13.6	336760	10.3
7W	532441	537287	0.9	550061	2.4	594699	8.1	646507	8.7
8	247732	239086	-3.5	207541	-13.2	216202	4.2	228380	5.6
9	540719	527640	-2.4	504868	-4.3	536770	6.3	592090	10.3
10	523367	524966	0.3	547483	4.3	569439	4.0	577282	1.4
11	1555161	1568879	0.9	1572163	0.2	1605422	2.1	1709986	6.5
STATE TOTAL	6083136	6034896	-0.8	5941512	-1.5	6188300	4.2	6612877	6.9

1/ Free style snowmobiling involves snowmobiling off trails

TABLE 18B

1/

Projections of Snowmobiling (combined) Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	140854	136696	-3.0	135839	-0.6	132865	-2.2	134724	1.4
2	87034	87179	0.2	91044	4.4	93473	2.7	100750	7.8
3	406618	400396	-1.5	365114	-8.8	363187	-0.5	378656	4.3
4	290145	286354	-1.3	289790	1.2	299043	3.2	311938	4.3
5	197600	195610	-1.0	195724	0.1	199814	2.1	217098	8.6
6E	105233	103747	-1.4	93848	-9.5	94794	1.0	108854	14.8
6W	14924	15015	0.6	16668	11.0	16905	1.4	15105	-10.6
7E	168545	172468	2.3	178613	3.6	205613	15.1	232214	12.9
7W	185893	184435	-0.8	184188	-0.1	205205	11.4	222145	8.3
8	21487	21151	-1.6	20643	-2.4	20390	-1.2	24799	21.6
9	134433	134136	-0.2	127011	-5.3	128928	1.5	135160	4.8
10	214103	212071	-0.9	229520	8.2	263664	14.9	280402	6.3
11	375837	387913	3.2	387277	-0.2	404120	4.3	432140	6.9
STATE TOTAL	2342706	2337170	-0.2	2315278	-0.9	2428003	4.9	2593984	6.8

1/ Combined snowmobiling includes snowmobiling on and off trails in the same occasion

TABLE 19B

Projections of Dog Sledding Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	3715	3576	-3.7	2925	-18.2	2663	-9.0	2569	-3.5
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	34532	34142	-1.1	35676	4.5	38507	7.9	38544	0.1
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	978	920	-5.9	1032	12.2	1518	47.0	1590	4.7
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	6665	6787	1.8	8967	32.1	10562	17.8	11253	6.5
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	1949	1915	-1.8	1551	-19.0	1407	-9.3	1635	16.2
10	0	0	0.0	0	0.0	0	0.0	0	0.0
11	4738	4755	0.4	3990	-16.1	3446	-13.6	3880	12.6
STATE TOTAL	52577	52095	-0.9	54141	3.9	58103	7.3	59471	2.4

TABLE 20B

Projections of Ice Fishing Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	39372	40341	2.5	41106	1.9	42083	2.4	40915	-2.8
2	343460	351010	2.2	367746	4.8	383166	4.2	398275	3.9
3	656051	667729	1.8	688786	3.2	693403	0.7	687030	-0.9
4	383410	384638	0.3	383632	-0.3	382061	-0.4	384993	0.8
5	488298	505526	3.5	534648	5.8	546352	2.2	564083	3.2
6E	166265	168625	1.4	175302	4.0	184638	5.3	194881	5.5
6W	53021	53969	1.8	56616	4.9	57825	2.1	55963	-3.2
7E	795951	819416	2.9	878554	7.2	934214	6.3	998976	6.9
7W	617770	641738	3.9	687588	7.1	741557	7.8	801032	8.0
8	93466	93457	-0.0	100000	7.0	104714	4.7	99886	-4.8
9	243003	245958	1.2	250212	1.7	251207	0.4	254692	1.4
10	142394	144035	1.2	147739	2.6	151945	2.8	159783	5.2
11	1052399	1081884	2.8	1133433	4.8	1168374	3.1	1225675	4.9
STATE TOTAL	5074860	5198326	2.4	5445360	4.8	5641539	3.6	5865975	4.0

TABLE 21B

Projections of Open Water Fishing Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	951	958	0.7	745	-22.3	655	-12.0	798	21.6
3	0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	29816	30497	2.3	32347	6.1	30649	-5.2	28498	-7.0
11	4738	4953	4.5	5631	13.7	5692	1.1	5203	-8.6
STATE TOTAL	35505	36408	2.5	38723	6.4	36997	-4.5	34500	-6.7

TABLE 22B

Projections of Total Hunting Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	99774	86147	-13.7	106952	24.1	119600	11.8	116365	-2.7
2	33122	30604	-7.6	36123	24.6	41549	9.0	40487	-2.6
3	280727	254650	-9.3	301751	18.5	322486	6.9	304867	-5.5
4	134649	126274	-6.2	154518	22.4	168026	8.7	161423	-3.7
5	82138	71470	-13.0	90438	26.5	103309	14.2	103721	0.4
6E	55616	53162	-4.4	61959	16.5	65839	6.3	63617	-3.4
6W	40797	34692	-15.0	44120	27.2	49940	13.2	47991	-3.9
7E	66500	60304	-9.3	71341	18.3	76080	6.6	71729	-5.7
7W	127659	118598	-7.1	147804	24.6	169458	14.7	174887	3.2
8	53764	46040	-14.4	58041	26.1	64283	10.8	61569	-4.2
9	143546	137174	-4.4	159903	16.6	169935	6.3	164196	-3.4
10	236450	218947	-7.4	255528	16.7	278084	8.8	276066	-0.7
11	90980	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	1445722	1238062	-14.4	1490479	20.4	1628588	9.3	1587321	-2.5

TABLE 23B

Projections of Upland Bird Hunting Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	1427	1452	1.6	1516	4.4	1504	-0.8	1644	22.6
3	15465	15923	3.0	17158	7.8	18223	6.2	17503	-4.0
4	23857	24263	1.7	25629	5.6	23639	-7.8	29727	25.8
5	5867	6910	17.8	7546	9.9	7373	-2.9	6262	-15.1
6E	15409	15954	3.5	16551	3.8	12134	-16.6	12617	4.0
6W	554	491	-11.4	340	-30.8	427	25.5	485	13.6
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	7426	7953	7.1	9185	15.5	9837	7.1	9602	-2.4
8	1703	1704	0.1	1522	-10.7	1239	-18.6	1195	-3.6
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	3583	3607	0.7	5353	48.4	5910	10.4	5832	-1.3
11	0	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	75291	78257	3.9	82950	5.9	80286	-3.1	85067	6.0

TABLE 24B

Projections of Big Game Hunting Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	6171	6222	0.8	5870	-5.7	5270	-10.2	4553	-13.6
2	5618	5737	2.1	5687	-0.9	5785	1.7	5618	-2.9
3	18594	18012	-3.1	16656	-7.5	15307	-8.1	14869	-2.9
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	1956	2043	4.5	1932	-5.5	1489	-22.9	1083	-27.3
6E	2719	2889	6.2	2894	0.2	2666	-7.9	2583	-3.1
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	14995	15453	3.1	17824	15.3	19960	12.0	22310	11.8
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	1949	2101	7.8	2953	40.5	3183	7.8	3052	-4.1
10	10748	11382	5.9	11610	2.0	9978	-14.1	8351	-16.3
11	0	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	62750	63839	1.7	65426	2.5	63637	-2.7	62418	-1.9

TABLE 25B

Projections of Waterfowl Hunting Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	978	1054	7.8	1047	-0.7	1797	63.0	1932	13.2
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	7165	7755	8.2	7988	3.0	11648	45.8	12895	10.7
11	0	0	0.0	0	0.0	0	0.0	0	0.0
STATE TOTAL	8143	8809	8.2	9035	2.6	13355	47.8	14827	11.0

TABLE 26B

Projections of Miscellaneous Hunting Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	93603	93483	-0.1	88368	-5.5	86069	-2.6	86656	0.7
2	26078	26926	3.3	28736	6.7	28609	-0.4	29208	2.1
3	246668	245389	-0.5	246221	0.3	262709	6.7	260101	-1.0
4	110793	112010	1.1	112232	0.2	116911	4.2	120227	2.8
5	73337	78290	6.8	81026	3.5	79261	-2.2	77788	-1.9
6E	37489	38848	3.6	37980	-2.2	37153	-2.2	35045	-5.7
6W	40243	39132	-2.8	36000	-8.0	36679	1.9	42505	15.9
7E	66500	70408	5.9	80264	14.0	88325	10.0	98986	12.0
7W	105238	106257	1.0	111559	5.0	125573	12.6	134596	7.2
8	52061	53638	3.0	51291	-4.4	50422	-1.7	49008	-2.8
9	141596	140552	-0.7	136196	-3.1	133946	-1.7	139298	4.0
10	214954	220385	2.5	226158	2.6	238720	5.6	251346	5.3
11	90980	94691	4.1	94543	-0.2	94412	-0.1	97038	2.8
STATE TOTAL	1299540	1320009	1.6	1330574	0.8	1378789	3.6	1421703	3.1

TABLE 27B

Projections of Trapping Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	40867	41952	2.7	40115	-4.4	44639	11.3	50431	13.9
2	34908	36441	4.4	38641	6.0	41569	7.6	44043	6.0
3	142867	137015	-4.1	132837	-3.0	146720	10.5	154508	5.3
4	52638	55941	6.3	54979	-1.7	64319	17.0	64774	0.7
5	49870	47808	-4.1	38034	-20.4	36262	-4.7	46997	29.6
6E	44413	46784	5.3	44094	-5.2	37549	-14.8	34516	-8.1
6W	19407	17907	-7.7	13910	-22.3	16583	19.2	19280	16.3
7E	18436	18274	-0.9	17905	-2.0	19694	10.0	23317	18.4
7W	33323	34264	2.8	31852	-7.0	29637	-7.0	32724	10.4
8	23329	22078	-5.4	17437	-21.0	15692	-10.0	16570	5.6
9	16434	16627	1.2	15806	-6.1	13321	-14.6	13510	1.4
10	66317	67436	1.7	64797	-3.9	63795	-1.5	63837	0.1
11	61599	62782	1.9	57304	-8.7	52314	-8.7	56512	8.0
STATE TOTAL	604408	605309	0.1	567511	-6.2	582094	2.6	621426	6.8

TABLE 28B

Projections of Ice Boating Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0	0.0	0	0.0	0	0.0	0	0.0
4	3808	4107	7.6	4035	-1.8	3608	-10.6	3023	-16.2
5	0	0	0.0	0	0.0	0	0.0	0	0.0
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	0	0	0.0	0	0.0	0	0.0	0	0.0
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	1109	1073	-3.2	987	-8.1	816	-17.4	763	-6.4
9	0	0	0.0	0	0.0	0	0.0	0	0.0
10	3583	4153	15.9	4621	11.3	4505	-2.5	3706	-17.7
11	6405	6749	5.4	7836	16.1	7753	-1.1	6570	-15.3
STATE TOTAL	14905	16082	7.9	17479	8.7	16681	-4.6	14062	-15.7

TABLE 29B

Projections of Sledding Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	241507	222454	-7.9	204024	-6.0	223868	7.1	229335	2.4
2	244794	230542	-5.4	243255	5.5	266883	9.7	272303	2.0
3	1041979	958396	-8.0	934665	-2.5	1006439	7.7	1000750	-0.6
4	393335	371086	-5.7	381997	2.9	419068	9.7	426975	1.9
5	299854	277600	-7.4	277476	-0.0	303926	9.5	323862	6.6
6E	153160	144685	-5.5	149839	3.6	169343	13.0	177402	4.8
6W	148412	137146	-7.6	138012	0.6	146526	6.2	143283	-2.2
7E	180206	175978	-2.3	193503	10.0	225356	16.4	246510	9.4
7W	772341	749793	-2.9	764727	4.7	904163	15.2	976874	8.0
8	217221	201426	-7.3	205391	2.0	225782	9.9	225763	-0.0
9	372271	358255	-3.8	363063	1.3	378919	4.4	379427	0.1
10	864730	827105	-4.4	828521	0.2	921040	11.2	952000	3.4
11	4398243	4244809	-3.5	4428994	4.3	4732525	6.9	4832661	2.1
STATE TOTAL	9328053	8899274	-4.6	9138566	2.7	9923838	8.6	10187145	2.7

TABLE 30B

Projections of Snowtubing Occasions Occurring in Each Minnesota Region,  
1978 - 1995

REGION	1978	1980	% Δ 78-80	1985	% Δ 80-85	1990	% Δ 85-90	1995	% Δ 90-95
1	6502	6132	-5.7	5815	-5.2	6409	10.2	6357	-0.8
2	4280	4427	3.4	4548	2.7	5269	15.8	6068	15.2
3	37188	37523	0.9	39472	5.2	37503	-5.0	34146	-8.9
4	48949	47648	-2.7	47930	0.6	51891	8.3	54796	5.6
5	16334	16036	-1.8	16632	3.7	18276	9.9	20401	11.6
6E	5438	5490	1.0	5152	-6.2	5106	-0.9	5917	15.9
6W	6654	6422	-3.5	6336	-1.3	6520	2.9	6478	-0.7
7E	22530	22122	-1.8	24018	8.6	26428	10.0	27920	5.6
7W	13185	13185	0.0	13991	6.1	16031	14.6	17605	9.6
8	68128	62872	-7.7	54080	-14.0	60528	11.9	64395	6.4
9	33771	32748	-3.0	30083	-8.1	29602	-1.6	31629	6.8
10	53739	50136	-6.7	44792	-10.7	49055	9.5	52809	7.7
11	409854	402444	-1.8	407130	1.2	418953	2.9	426747	1.9
STATE TOTAL	726552	707185	-2.7	699979	-1.0	731572	4.5	755269	3.2

TABLE 31B

Projections of Orienteering Occasions Occurring in Each Minnesota Region,  
1978 1995

REGION	1978	1980	% $\Delta$ 78-80	1985	% $\Delta$ 80-85	1990	% $\Delta$ 85-90	1995	% $\Delta$ 90-95
1	0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0	0.0	0	0.0	0	0.0	0	0.0
3	37739	35846	-5.0	35672	-0.5	44980	26.1	47089	4.7
4	0	0	0.0	0	0.0	0	0.0	0	0.0
5	2034	2083	2.4	1859	-10.8	2537	36.5	2937	15.7
6E	0	0	0.0	0	0.0	0	0.0	0	0.0
6W	592	740	25.1	821	11.0	673	-18.0	520	-22.8
7E	0	0	0.0	0	0.0	0	0.0	0	0.0
7W	0	0	0.0	0	0.0	0	0.0	0	0.0
8	0	0	0.0	0	0.0	0	0.0	0	0.0
9	3974	3618	-9.0	3204	-11.4	3729	16.4	3967	6.4
10	0	0	0.0	0	0.0	0	0.0	0	0.0
11	23881	24298	1.7	23097	-4.9	21527	-6.8	21472	-0.3
STATE TOTAL	68220	66586	-2.4	64654	-2.9	73447	13.6	75984	3.5

