

# 2004 Outdoor Recreation Facility Survey of Minnesota Cities, Counties, and School Districts

## Part 1: Facility Adequacy



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## SUMMARY

### INTRODUCTION

The most recent State Comprehensive Outdoor Recreation Plan identified the need to better understand the changing nature of outdoor recreation in Minnesota. To meet this need, three efforts are underway, and one is planned for future funding. The first effort is the collection of primary information on the outdoor recreation patterns of adult Minnesotans. The second effort is an analysis of existing information sources to delineate recent trends in recreation participation (e.g., trends in fishing licenses, watercraft registration, and park attendance). The third effort—which is the topic of this document—is to determine the recreation facility needs of cities, counties, and school districts in the state from providers of those facilities. The fourth effort—which is planned for future funding—is to determine the recreation facility and program needs of the general Minnesota population directly from that population.

To collect data on Minnesota public and private outdoor recreation facilities open to the general public, a mail survey was conducted beginning in July 2004. The mail survey targeted the most appropriate and knowledgeable respondent in each city, county and school district. The mail-survey sample of 1000 was allocated to three public outdoor recreation facility providers—cities/townships (cities), counties, school districts—with surveys sent to 603 cities, 87 counties, and 310 school districts. The survey covered all cities with populations over 350, some larger townships, and a sampling of cities with populations under 350; all 87 counties; and all school districts with enrollments over 500 and a sampling of school districts with enrollments under 500. The return rates varied from 83 percent for counties to 85 percent for cities. The return rates far exceeded expectations for an effort such as this.

This report on the findings of the 2004 Outdoor Recreation Facility Adequacy Survey focuses on facility needs—now and within the next five years. A separate report—based on additional information collected in the same survey—focuses on problems facing outdoor recreation facility providers.

A separate survey was developed for cities, for counties, and for school districts. While the majority of each survey contained the same materials, the number and ordering of facilities varied. The city and county surveys included 46 facilities listed under six facility categories—Outdoor Sport Courts & Fields, Water-based Facilities, Day Use Facilities, Trails, Overnight Facilities, and Hunting Facilities (Table S1). The school district survey only included 30 facilities. It did not include the six Water-based Facilities, the four Overnight Facilities, the five Hunting Facilities, or the ‘rifle-pistol ranges’ facility from the Outdoor Sport Courts & Fields category.

Table S1  
List of Facilities by Facility Category

***OUTDOOR SPORT COURTS & FIELDS***

- Tennis courts
- Basketball courts
- Volleyball courts
- Baseball fields
- Softball fields
- Football fields
- Soccer fields
- Golf courses
- Archery ranges
- Rifle-pistol ranges
- Running tracks
- Ice rinks
- Downhill ski areas
- Snow boarding areas
- Sledding hills
- Skateboard parks

***TRAILS***

- Paved trails for walking, hiking, skating, biking
- Unpaved trails for walking, hiking, biking
- Mountain bike trails
- Horseback trails
- Nature/interpretive trails
- Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)
- Cross-country ski trails
- Snowmobile trails

***WATER-BASED FACILITIES***

- Fishing piers
- Shore fishing/ice fishing areas
- Boat launching ramps
- Marinas
- Outdoor swimming pools
- Swimming beaches

***DAY USE FACILITIES***

- Picnic shelters
- Picnic grounds
- Playgrounds
- Nature/Interpretive centers
- Natural park areas/open spaces
- Wildlife/nature observation areas
- Dog parks

***OVERNIGHT FACILITIES***

- Modern campgrounds with electric hookups
- Primitive campgrounds
- Dispersed camping sites
- Camper cabins

***HUNTING FACILITIES***

- Big game hunting areas
- Small game hunting areas
- Waterfowl hunting areas
- Hunter walking trails
- Accessible hunting blinds, stands, areas for people with disabilities

## SURVEY RESULTS

Survey respondents were asked to rate the adequacy of supply of each facility for their local population: city respondents were asked about the “adequacy of near-home (within a half-hour drive of home) facility supply to community residents”; county respondents were asked about the “adequacy of facility supply to county residents”, and school district respondents were asked about the “adequacy of facility supply to school district residents.” It is important to note that respondents were *not* only asked to rate adequacy for facilities they currently provide. Rather, they were asked to think broadly of the facility needs in their local communities, whether or not they are specifically involved with the provision of those facilities.

The surveys asked the respondents to rate the adequacy of supply of each facility as “Facility shortage exists now”, “Facility shortage expected to emerge in next 5 years; no shortage now”, or “No facility shortage expected over next 5 years”. When comparing rankings of facilities needed now with rankings of facilities needed now plus facilities needed within five years, results were largely the same. For this reason, and to simplify this summary, only the rankings for facilities needed now are discussed in the summary

### Facility Needs by Type of Provider

The ranking of facility needs varies from cities to counties to school districts (Table S2). However, all three types of provider ranked facilities in the Trails category as their highest need. The category with the lowest ranked facility needs varied by type of provider with cities ranking Water-based Facilities lowest, counties ranking Outdoor Sport Courts & Fields lowest, and school districts ranking Day Use Facilities lowest.

When the rankings of facility needs of the three types of providers are combined (“mean rank” of Table S2), facilities in the Trails category occupy the top four facilities, with facilities in the Trails category make up six of the top ten facilities. The only facilities in the Trails category not ranked in the top ten facilities were cross-country ski trails, which was ranked in the top third, and snowmobile trails, which was ranked near the bottom. The lower ten facilities were more varied. However, facilities in the Outdoor Sport Courts & Fields category make up five of the ten lower ranked facilities.

Some of the top-ranked facilities are traditional responsibilities of one or a combination of providers, while others are not traditionally provided by cities, counties, or school districts. For example, the top-ranked facility (paved trails for walking, hiking, skating, biking) is regularly provided by cities and counties, but to a lesser extent by school districts (Table S3). In contrast, the next two highest-ranked facilities (mountain bike trails, and motorized, off-highway vehicle trails) are not regularly provided by cities, counties or school districts. Other entities (such as state and federal government, and the private sector) provide outdoor recreation facilities, of course, and all of these will need to be considered when making decisions on which providers should shoulder what responsibility for meeting identified needs.

**Table S2**  
**Ranking of Facilities Needed Now by Type of Provider**  
(\* 0.0 indicates school districts were not asked about this facility)

<b>Facility</b>	<b>City</b>	<b>County</b>	<b>School</b>	<b>Mean Rank</b>
Paved trails for walking, hiking, skating, biking	1	2	3	2.0
Mountain bike trails	6	3	9	6.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	2	1	15	6.0
Unpaved trails for walking, hiking, biking	7	6	6	6.3
Skateboard parks	4	10	7	7.0
Nature/interpretive trails	13	4	8	8.3
Accessible hunting blinds, stands, areas for people with disabilities	8	11	0.0*	9.5
Horseback trails	10	7	12	9.7
Soccer fields	3	28	1	10.7
Camper cabins	17	5	0.0	11.0
Dog parks	5	12	17	11.3
Modern campgrounds with electric hookups	16	8	0.0	12.0
Outdoor swimming pools	9	17	0.0	13.0
Cross-country ski trails	18	15	10	14.3
Nature/Interprtative centers	15	14	16	15.0
Fishing piers	28	9	0.0	18.5
Volleyball courts	23	31	4	19.3
Snow boarding areas	11	29	19	19.7
Archery ranges	14	22	24	20.0
Dispersed camping sites	27	13	0.0	20.0
Downhill ski areas	12	27	23	20.7
Sledding hills	21	30	18	23.0
Basketball courts	36	32	2	23.3
Ice rinks	24	41	5	23.3
Primitive campgrounds	29	18	0.0	23.5
Big game hunting areas	25	23	0.0	24.0
Swimming beaches	30	19	0.0	24.5
Small game hunting areas	31	20	0.0	25.5
Wildlife/nature observation areas	22	34	21	25.7
Natural park areas/open spaces	35	24	22	27.0
Hunter walking trails	19	36	0.0	27.5
Softball fields	40	33	14	29.0
Marinas	20	38	0.0	29.0
Playgrounds	41	21	27	29.7
Baseball fields	37	40	13	30.0
Shore fishing/ice fishing areas	44	16	0.0	30.0
Tennis courts	38	42	11	30.3
Picnic shelters	43	26	28	32.3
Rifle-pistol ranges	26	39	0.0	32.5
Running tracks	34	46	20	33.3
Boat launching ramps	42	25	0.0	33.5
Waterfowl hunting areas	33	35	0.0	34.0
Football fields	32	45	26	34.3
Snowmobile trails	39	43	25	35.7
Picnic grounds	45	37	30	37.3
Golf courses	46	44	29	39.7

Table S3  
 Ranking of Facilities Provided by Type of Provider  
 From Most Often Provided to Least Often Provided  
 (\* 0.0 indicates school districts were not asked about this facility)

Facility	City	County	School	Mean Rank
Playgrounds	1	5	2	2.7
Picnic shelters	2	1	16	6.3
Picnic grounds	3	2	19	8.0
Natural park areas/open spaces	13	3	10	8.7
Paved trails for walking, hiking, skating, biking	10	6	15	10.3
Boat launching ramps	14	7	0.0*	10.5
Softball fields	4	25	5	11.3
Shore fishing/ice fishing areas	11	12	0.0	11.5
Volleyball courts	9	18	9	12.0
Unpaved trails for walking, hiking, biking	15	4	20	13.0
Baseball fields	6	31	3	13.3
Swimming beaches	21	8	0.0	14.5
Basketball courts	5	34	6	15.0
Fishing piers	17	13	0.0	15.0
Tennis courts	7	32	7	15.3
Modern campgrounds with electric hookups	23	10	0.0	16.5
Wildlife/nature observation areas	26	14	11	17.0
Ice rinks	8	33	12	17.7
Football fields	12	41	1	18.0
Primitive campgrounds	27	9	0.0	18.0
Cross-country ski trails	28	11	17	18.7
Nature/interpretive trails	29	15	14	19.3
Snowmobile trails	19	17	23	19.7
Soccer fields	16	39	8	21.0
Sledding hills	18	28	18	21.3
Nature/Interpretive centers	30	21	13	21.3
Running tracks	25	42	4	23.7
Golf courses	20	35	22	25.7
Horseback trails	37	16	26	26.3
Small game hunting areas	31	23	0.0	27.0
Archery ranges	32	29	21	27.3
Dispersed camping sites	38	19	0.0	28.5
Big game hunting areas	35	22	0.0	28.5
Mountain bike trails	39	20	27	28.7
Skateboard parks	24	40	24	29.3
Outdoor swimming pools	22	37	0.0	29.5
Waterfowl hunting areas	33	26	0.0	29.5
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	40	24	25	29.7
Hunter walking trails	43	27	0.0	35.0
Dog parks	42	36	29	35.7
Camper cabins	45	30	0.0	37.5
Snow boarding areas	41	44	30	38.3
Downhill ski areas	44	45	28	39.0
Marinas	36	43	0.0	39.5
Rifle-pistol ranges	34	46	0.0	40.0
Accessible hunting blinds, stands, areas for people with disabilities	46	38	0.0	42.0

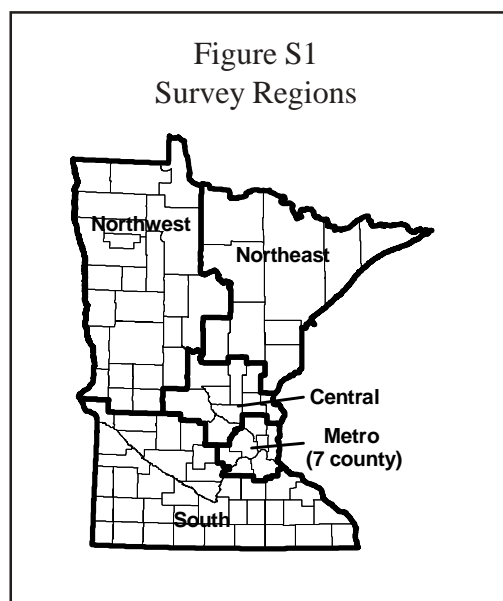


## Analysis of Facility Need

To examine how facility needs varied across the state and by standard demographic breakdowns, city and county data were analyzed by region, population density change 1990 to 2000, 2000 population, and 2000 median household income. School district data were looked at by region, enrollment change 1993-94 to 2003-04, 2003-04 enrollment, and percent enrollment eligible for subsidized lunches.

The balance of this summary focuses on facility needs by region. The summary only includes the highlights of findings from additional analyses by demographic breakdowns. For a full discussion of the findings from the demographic analyses, refer to the body of the report.

Regions used for this analysis are the four DNR regions with the Central DNR region broken into the seven county Twin Cities metropolitan region (Metro) and the balance as the Central region (Figure S1). The Metro region contains half of the Minnesota population and is covered by the regional governmental agency (Metropolitan Council) that has outdoor recreation functions.



## Facility Needs of Cities

When looked at by region there was some commonality among Northwest, South, and Central regions (Table S4). The Metro region differed most from the other regions. The Northeast region was somewhat in between.

The combined (“mean”) ranking of the five regions has facilities in the Trails category as the top two facilities, with facilities in the Trails category making up six of the top ten facilities. The only facilities in the Trails category not ranked in the top ten facilities were cross-country ski trails, which was ranked near the top third, and snowmobile trails, which was ranked with the bottom ten facilities. The bottom ten facilities were more varied with facilities in the Day Use Facilities category and facilities in the Outdoor Sport Courts & Fields category accounting for seven of the ten lower ranked facilities.

When these rankings of facilities are examined by population density change 1990 to 2000, 2000 population, and 2000 median household income, results are similar to those shown for the regions: facilities in the Trails category dominate the top ten facilities, while facilities in the Day Use category and the Outdoor Sports Courts & Fields category dominate the bottom ten facilities. However, as population and income increased the perceived need for Trails decreased. Cities with populations over 100,000 saw less of a need for facilities than smaller cities.

Table S4  
Ranking of Facilities Needed Now by Cities by Region

Facility	Northwest	Northeast	South	Central	Metro	Mean Rank
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	1	3	3	2	8	3.4
Paved trails for walking, hiking, skating, biking	2	7	1	5	6	4.2
Skateboard parks	10	5	6	1	2	4.8
Soccer fields	8	4	2	11	1	5.2
Dog parks	17	2	4	6	3	6.4
Mountain bike trails	3	8	5	7	9	6.4
Unpaved trails for walking, hiking, biking	4	6	9	3	15	7.4
Accessible hunting blinds, stands, areas for people with disabilities	7	9	13	4	22	11.0
Outdoor swimming pools	13	1	27	14	4	11.8
Nature/interpretive trails	6	11	22	10	20	13.8
Horseback trails	5	15	11	12	26	13.8
Snow boarding areas	9	10	8	19	24	14.0
Downhill ski areas	11	18	7	18	23	15.4
Archery ranges	18	12	14	15	27	17.2
Nature/Interprtative centers	14	22	17	8	29	18.0
Cross-country ski trails	15	33	16	20	17	20.2
Hunter walking trails	25	34	19	9	16	20.6
Marinas	12	28	15	24	30	21.8
Volleyball courts	29	13	31	27	10	22.0
Modern campgrounds with electric hookups	22	16	10	30	35	22.6
Camper cabins	16	43	12	13	32	23.2
Sledding hills	20	17	18	25	37	23.4
Wildlife/nature observation areas	21	23	28	17	33	24.4
Big game hunting areas	28	45	24	16	13	25.2
Ice rinks	26	29	23	31	19	25.6
Rifle-pistol ranges	23	21	30	32	25	26.2
Fishing piers	35	24	20	26	34	27.8
Small game hunting areas	30	44	33	23	12	28.4
Dispersed camping sites	24	41	21	21	36	28.6
Swimming beaches	36	19	25	22	42	28.8
Basketball courts	38	27	37	29	18	29.8
Waterfowl hunting areas	31	46	32	28	14	30.2
Football fields	40	36	36	36	5	30.6
Primitive campgrounds	19	35	26	35	41	31.2
Running tracks	33	14	29	37	46	31.8
Baseball fields	39	38	45	34	7	32.6
Snowmobile trails	37	26	41	39	21	32.8
Softball fields	42	25	44	43	11	33.0
Natural park areas/open spaces	27	37	39	33	31	33.4
Picnic shelters	45	20	43	42	28	35.6
Tennis courts	32	39	34	40	39	36.8
Playgrounds	34	30	35	41	44	36.8
Boat launching ramps	41	31	38	38	38	37.2
Picnic grounds	46	32	46	46	40	42.0
Shore fishing/ice fishing areas	44	40	40	44	43	42.2
Golf courses	43	42	42	45	45	43.4

## Facility Needs of Counties

When looked at by region there was little correlation among the regions (Table S5). This differs from the results for cities, which showed some correlation among the five regions. In general the Northeast saw the smallest need for facilities. When looking at facilities needed now, none of the five reporting Northeast counties saw a current need for 27 of the facilities (facilities ranked 20 or higher in Table S5). This compares with the seven Metro counties that saw no current need for 18 of the facilities (facilities ranked 28 or higher) and the seven Central counties that saw no current need for 10 of the facilities (facilities ranked 36 or higher). At least some of the 18 counties in the Northwest and the 27 counties in the South saw a current need for each facility.

The combined (“mean”) ranking of the five regions has facilities in the Trails category as the top three facilities, with facilities in the Trails category making up six of the top ten facilities. The only facilities in the Trails category not ranked in the top ten facilities were cross-country ski trails, which was ranked near the middle, and snowmobile trails, which was ranked near the bottom. The three lowest ranked facilities were in the Outdoor Sport Courts & Fields category with facilities in the Outdoor Sport Courts & Fields category making up seven of the bottom ten ranked facilities.

When these rankings of facilities are examined by population density change 1990 to 2000, 2000 population, and 2000 median household income, results are similar to those shown for the regions: facilities in the Trails category dominate the top ten facilities, while facilities in the Outdoor Sports Courts & Fields category dominate the bottom ten facilities. Counties with the highest population density change and counties with the highest population saw the smallest need for facilities.

Table S5  
Ranking of Facilities Needed Now by Counties by Region

Facility	Northwest	Northeast	South	Central	Metro	Mean Rank
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	1	1	1	1	5	1.8
Paved trails for walking, hiking, skating, biking	2	5	3	2	1	2.6
Mountain bike trails	12	2	2	3	11	6.0
Camper cabins	7	9	4	12	2	6.8
Nature/interpretive trails	4	8	6	6	12	7.2
Modern campgrounds with electric hookups	8	3	7	13	6	7.4
Unpaved trails for walking, hiking, biking	3	10	12	8	13	9.2
Fishing piers	9	21	13	9	3	11.0
Horseback trails	5	20	5	4	29	12.6
Accessible hunting blinds, stands, areas for people with disabilities	10	11	16	14	21	14.4
Skateboard parks	6	4	36	23	7	15.2
Dog parks	20	22	8	24	8	16.4
Shore fishing/ice fishing areas	29	24	17	7	15	18.4
Nature/Interpretive centers	13	25	18	15	22	18.6
Dispersed camping sites	38	23	9	10	14	18.8
Natural park areas/open spaces	21	14	30	20	17	20.4
Small game hunting areas	31	30	19	17	9	21.2
Playgrounds	30	12	15	26	24	21.4
Archery ranges	15	13	29	18	32	21.4
Cross-country ski trails	14	26	14	25	30	21.8
Outdoor swimming pools	11	27	37	11	23	21.8
Swimming beaches	17	28	28	5	31	21.8
Downhill ski areas	22	6	31	37	18	22.8
Boat launching ramps	32	31	20	19	16	23.6
Primitive campgrounds	39	29	10	16	25	23.8
Big game hunting areas	40	33	21	21	10	25.0
Softball fields	25	15	25	29	35	25.8
Snow boarding areas	26	7	38	39	19	25.8
Soccer fields	16	16	42	30	27	26.2
Sledding hills	34	17	39	40	4	26.8
Picnic shelters	33	32	11	27	33	27.2
Basketball courts	23	34	22	28	34	28.2
Wildlife/nature observation areas	35	18	32	22	36	28.6
Volleyball courts	24	35	23	38	26	29.2
Waterfowl hunting areas	41	36	26	31	20	30.8
Hunter walking trails	18	38	33	41	38	33.6
Picnic grounds	42	37	24	32	37	34.4
Rifle-pistol ranges	19	40	43	34	40	35.2
Ice rinks	28	19	44	43	43	35.4
Baseball fields	27	39	40	33	39	35.6
Marinas	36	41	34	35	41	37.4
Tennis courts	43	42	27	42	42	39.2
Snowmobile trails	45	44	45	36	28	39.6
Golf courses	44	43	35	44	44	42.0
Running tracks	37	46	46	46	46	44.2
Football fields	46	45	41	45	45	44.4

## Facility Needs of School Districts

When looked at by region there was some correlation among the Northwest, South, and Central regions (Table S6). This was similar to the results for cities, which showed some correlation among the same regions. In general the Metro region saw the smallest need for facilities. When looking at facilities needed now, less than 10 percent of the 39 reporting Metro school districts saw a current need for 10 of the 30 facilities (facilities ranked 20 or higher in Table S6).

The combined (“mean”) ranking of the five regions has facilities in the Outdoor Sport Courts & Fields category as the top three facilities, with facilities in the Outdoor Sport Courts & Fields category making up six of the top ten facilities. The remaining top facilities were Trails. The bottom ten facilities were primarily in the Day Use Facilities category and in the Outdoor Sport Courts & Fields category.

When these rankings of facilities are examined by enrollment change, enrollment, and percent enrollment eligible for subsidized lunch, results are similar to those shown for the regions: facilities in the Outdoor Sports Courts & Fields category and the Trails category dominate the top ten facilities, while facilities in the Day Use category and the Outdoor Sports Courts & Fields category dominate the bottom ten facilities. School districts with declining enrollment (63 percent of responding school districts), smaller student populations, and a larger percent of students eligible for subsidized lunch ranked facilities in the Trails category higher. School districts with increasing enrollment, larger student populations, and a smaller percent of students eligible for subsidized lunch ranked facilities in the Outdoor Sport Courts & Fields category higher.

Table S6  
Ranking of Facilities Needed Now by School Districts by Region

Facility	Northwest	Northeast	South	Central	Metro	Mean Rank
Soccer fields	2	2	3	6	1	2.8
Basketball courts	5	7	7	2	3	4.8
Volleyball courts	6	8	5	8	5	6.4
Paved trails for walking, hiking, skating, biking	3	15	1	7	8	6.8
Skateboard parks	8	1	11	3	11	6.8
Ice rinks	1	23	12	1	7	8.8
Nature/interpretive trails	7	16	4	5	16	9.6
Mountain bike trails	9	12	6	9	17	10.6
Tennis courts	10	4	14	18	9	11.0
Unpaved trails for walking, hiking, biking	4	24	2	12	15	11.4
Horseback trails	12	5	9	10	26	12.4
Cross-country ski trails	11	25	8	4	18	13.2
Softball fields	15	13	25	14	4	14.2
Nature/Interprative centers	16	9	15	15	19	14.8
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	18	17	10	19	12	15.2
Dog parks	23	10	13	20	13	15.8
Sledding hills	13	11	21	16	20	16.2
Snow boarding areas	19	14	16	11	21	16.2
Baseball fields	21	26	24	13	2	17.2
Running tracks	14	3	22	27	22	17.6
Wildlife/nature observation areas	24	18	18	21	10	18.2
Natural park areas/open spaces	22	20	17	24	14	19.4
Archery ranges	17	6	23	22	30	19.6
Downhill ski areas	20	19	19	17	27	20.4
Football fields	30	21	28	23	6	21.6
Snowmobile trails	26	27	20	25	28	25.2
Playgrounds	25	22	26	30	29	26.4
Picnic shelters	27	28	29	26	23	26.6
Golf courses	29	30	27	28	24	27.6
Picnic grounds	28	29	30	29	25	28.2

## INTRODUCTION

The most recent State Comprehensive Outdoor Recreation Plan identified the need to better understand the changing nature of outdoor recreation in Minnesota (Reference 1). To meet this need, three efforts are underway, and one is planned for future funding. The first effort is the collection of primary information on the outdoor recreation patterns of adult Minnesotans (Reference 2). The second effort is an analysis of existing information sources to delineate recent trends in recreation participation (e.g., trends in fishing licenses, watercraft registration, and park attendance). One report—on wildlife-related recreation (fishing, hunting, wildlife observation) and recreational boating—has been completed (Reference 3). The third effort—which is the topic of this document—is to determine the recreation facility needs of cities, counties, and school districts in the state from providers of those facilities. The fourth effort—which is planned for future funding—is to determine the recreation facility and program needs of the general Minnesota population directly from that population.

Funding for all these efforts is from the Land and Water Conservation Fund, as allocated by the Legislative Commission on Minnesota Resources.

The scoping and planning of these four efforts was done by a work team, which continues to meet on an ad hoc basis as the efforts progress:

### Current members:

Dorian Grilley, Parks & Trails Council of Minnesota  
Tim Kelly, Minnesota Department of Natural Resources  
Emmett Mullin, Minnesota Department of Natural Resources  
Jon Nauman, Three Rivers Park District  
Wayne Sames, Minnesota Department of Natural Resources  
Ron Sushak, Minnesota Department of Natural Resources  
Jonathan Vlaming, Metropolitan Council

### Past members:

John Schneider, Metropolitan State University  
Colleen Tollefson, Office of Tourism

This report on the findings of the 2004 Outdoor Recreation Facility Adequacy Survey focuses on facility needs—now and within the next five years. A separate report—based on additional information collected in the same survey—focuses on problems facing outdoor recreation providers (Reference 4).

After a brief discussion of methodology, the findings on facility needs will be organized as follows:

- Facility needs by type of provider
- Facility needs of cities
- Facility needs of counties
- Facility needs of school districts

To examine how facility needs varied across the state and by standard demographic breakdowns, city and county data were analyzed by region, population density change 1990 to 2000, 2000 population, and 2000 median household income. School district data were looked at by region, enrollment change 1993-94 to 2003-04, 2003-04 enrollment, and percent enrollment eligible for subsidized lunches.

## METHODOLOGY

A detailed methodological report is available for this survey (Reference 5). A brief summary is provided below.

To collect data on Minnesota public and private outdoor recreation facilities open to the general public, a mail survey was conducted beginning in July 2004. The mail survey targeted the most appropriate and knowledgeable respondent in each city, county and school district. The mail-survey sample of 1000 was allocated to three public outdoor recreation facility providers—cities/townships (cities), counties, school districts—with surveys sent to 603 cities, 87 counties, and 310 school districts.

The cities were selected from a list of 820 cities obtained from the League of Minnesota Cities. The cities in the list account for 88 percent of Minnesota's population. All 549 cities with populations of 350 or more were selected. A random sample of 54 cities was taken from the 304 smaller cities. The 603 cities sampled represent 79 percent of Minnesota's population. All 87 of Minnesota's counties were surveyed. The school districts were selected from a list of 344 school districts obtained from the Minnesota Department of Education. Charter schools and nonpublic schools were excluded. The 344 districts represent 98 percent of Minnesota's K12 population. All 260 school districts with student populations of 500 or more were selected. A random sample of 50 school districts was taken from the 84 smaller districts. The 310 school districts sampled represent 96 percent of Minnesota's K12 population.

The mail survey achieved over 80 percent return rate after three mailings. The return rate varied from 83 percent for counties and school districts to 85 percent for cities. The return rate far exceeded expectations for an effort such as this.

A separate survey was developed for cities, for counties, and for school districts. While the majority of each survey contained the same materials, the number and ordering of facilities varied. The city and county surveys included 46 facilities listed under six facility categories—Outdoor Sport Courts & Fields (16 facilities), Water-based Facilities (6 facilities), Day Use Facilities (7 facilities), Trails (8 facilities), Overnight Facilities (4 facilities), Hunting Facilities (5 facilities). The school district survey only included 30 facilities. It did not include the six Water-based Facilities, the four Overnight Facilities, the five Hunting Facilities, or the 'rifle-pistol ranges' facility from the Outdoor Sport Courts & Fields category.



## RESULTS

Survey respondents were asked to rate the adequacy of supply of each facility for their local population: city respondents were asked about the “adequacy of near-home (within a half-hour drive of home) facility supply to community residents”; county respondents were asked about the “adequacy of facility supply to county residents”, and school district respondents were asked about the “adequacy of facility supply to school district residents.” It is important to note that respondents were *not* only asked to rate adequacy for facilities they currently provide. Rather, they were asked to think broadly of the facility needs in their local communities, whether or not they are specifically involved with the provision of those facilities.

The surveys asked the respondents to rate the adequacy of supply of each facility as “Facility shortage exists now”, “Facility shortage expected to emerge in next 5 years; no shortage now”, or “No facility shortage expected over next 5 years”.

When comparing results among the three facility providers, one should note that school districts were asked about 16 fewer facilities than cities and counties. Correlations between cities and counties use all 46 facilities. Correlations between cities and school districts and between counties and school districts only use the 30 facilities listed in the school district survey.

### Facility Needs by Type of Provider

There was little correlation in ranking of facility needs among cities, counties and school districts (Table 1). There was some commonality among the top 5 and bottom 5 facilities. There was more commonality between cities and counties and between cities and school districts than between counties & school districts.

Table 1  
Correlation Coefficients of Facilities Needed Now  
by Type of Provider

Provider	County	School
City	0.563	0.542
County		0.348

All three providers ranked paved trails for walking, hiking, skating, biking in their top five (Table 2). Cities and school districts ranked soccer fields in their top five. Cities and counties ranked motorized, off-highway vehicle trails (ATV,4X4,motorcycle) in the top five. Cities also ranked skateboard parks and dog parks in their top five. Counties also ranked mountain bike trails, nature/interpretive centers, and camper cabins in their top five. School districts included basketball courts, volleyball courts, and ice rinks in their top five.

Table 2  
Facilities Needed Now by Type of Provider  
(percent indicating need)

<b>Facility</b>	<b>City</b>	<b>County</b>	<b>School</b>
Paved trails for walking, hiking, skating, biking	44.6	56.7	42.1
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	60.0	28.2
Soccer fields	42.5	16.7	50.5
Skateboard parks	41.7	28.3	35.6
Dog parks	39.9	26.7	26.7
Mountain bike trails	38.8	46.7	32.7
Unpaved trails for walking, hiking, biking	36.2	38.3	36.6
Accessible hunting blinds, stands, areas for people with disabilities	33.3	28.3	0.0
Outdoor swimming pools	33.1	21.7	0.0
Horseback trails	32.5	38.3	30.7
Snow boarding areas	32.3	16.7	25.7
Downhill ski areas	31.8	18.3	23.3
Nature/interpretive trails	30.2	40.0	34.7
Archery ranges	29.7	20.0	22.8
Nature/Interprative centers	28.6	23.3	28.2
Modern campgrounds with electric hookups	28.1	38.3	0.0
Camper cabins	27.6	40.0	0.0
Cross-country ski trails	27.0	23.3	31.7
Hunter walking trails	26.8	13.3	0.0
Marinas	26.5	11.7	0.0
Sledding hills	25.5	16.7	26.2
Wildlife/nature observation areas	24.1	15.0	23.8
Volleyball courts	23.9	16.7	39.1
Ice rinks	23.9	10.0	37.6
Big game hunting areas	23.6	20.0	0.0
Rifle-pistol ranges	23.4	11.7	0.0
Dispersed camping sites	22.8	25.0	0.0
Fishing piers	22.6	35.0	0.0
Primitive campgrounds	21.8	21.7	0.0
Swimming beaches	21.0	21.7	0.0
Small game hunting areas	20.2	21.7	0.0
Football fields	19.9	6.7	18.8
Waterfowl hunting areas	19.7	15.0	0.0
Running tracks	19.2	5.0	24.3
Natural park areas/open spaces	17.8	20.0	23.3
Basketball courts	17.6	16.7	43.1
Baseball fields	17.6	11.7	30.2
Tennis courts	17.1	10.0	31.7
Snowmobile trails	16.3	8.3	19.3
Softball fields	15.7	16.7	29.2
Playgrounds	15.5	21.7	13.4
Boat launching ramps	14.7	20.0	0.0
Picnic shelters	14.4	20.0	12.4
Shore fishing/ice fishing areas	11.3	23.3	0.0
Picnic grounds	10.2	13.3	9.9
Golf courses	9.7	8.3	11.4

All three providers ranked golf courses in their bottom five. Cities and school districts ranked picnic grounds and picnic shelters lower. Counties and school districts ranked football fields lower. Cities included boat launching ramps and shore fishing/ice fishing areas in their bottom five. Counties included running tracks, snowmobile trails, tennis courts, and ice rinks in their bottom five. School districts included playgrounds in their bottom five.

When looked at by facility category, there was little correlation among providers. However, there was some commonality for higher and lower ranked facilities within each category (Table 3).

All three providers ranked the Trails category higher than the other categories. Cities ranked Water-based Facilities and Day Use Facilities in a tie for lowest ranked category. Counties ranked Outdoor Sport Courts & Fields as their lowest category. School districts ranked Day Use Facilities lowest.

Within Outdoor Sport Courts & Fields the higher ranked facilities were soccer fields (cities & school districts) and skateboard parks (cities & counties). Counties also ranked archery ranges higher. School districts ranked basketball courts higher. All providers ranked golf courses lower. Cities ranked softball fields lower. Counties ranked running tracks lower. School districts ranked football fields lower.

There was little commonality in ranking Water-based Facilities. Cities ranked outdoor swimming pools and marinas higher. Counties ranked fishing piers and shore fishing/ice fishing areas higher. Cities ranked shore fishing/ice fishing areas lower. Counties ranked marinas lower. Both ranked boat launching ramps lower. School districts did not rank Water-based Facilities.

There was good agreement for Day Use Facilities. All three providers ranked dog parks and nature/interpretive centers higher. All three providers ranked picnic grounds and picnic shelters lower.

For Trail Facilities, all three providers ranked paved trails for walking, hiking, skating, biking higher. Cities and counties ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) trails higher. School districts ranked unpaved trails for walking, hiking, biking higher. All three providers ranked snowmobile trails lower. Cities and counties ranked cross-county ski trails lower. School districts ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) trails lower.

For Overnight Facilities, both cities and counties ranked modern campgrounds with electric hookups and camper cabins higher. They ranked primitive campgrounds and dispersed camping sites lower. School districts did not rank these facilities.

There was limited agreement on Hunting Facilities. Both cities and counties ranked accessible hunting blinds, stands, areas for people with disabilities higher and waterfowl hunting areas lower. Cities ranked hunter walking trails higher while counties ranked them lower. Counties ranked small game hunting areas higher while cities ranked them lower. School districts did not rank these facilities.

Table 3  
Facilities Needed Now by Facility Category by Type of Provider  
(percent indicating need)

Facility	City	County	School
<b>Outdoor Sport Courts &amp; Fields</b>			
Soccer fields	42.5	16.7	50.5
Skateboard parks	41.7	28.3	35.6
Snow boarding areas	32.3	16.7	25.7
Volleyball courts	23.9	16.7	39.1
Downhill ski areas	31.8	18.3	23.3
Ice rinks	23.9	10.0	37.6
Archery ranges	29.7	20.0	22.8
Basketball courts	17.6	16.7	43.1
Sledding hills	25.5	16.7	26.2
Tennis courts	17.1	10.0	31.7
Baseball fields	17.6	11.7	30.2
Softball fields	15.7	16.7	29.2
Running tracks	19.2	5.0	24.3
Football fields	19.9	6.7	18.8
Rifle-pistol ranges	23.4	11.7	0.0
Golf courses	9.7	8.3	11.4
<b>Water-based Facilities</b>			
Outdoor swimming pools	33.1	21.7	0.0
Marinas	26.5	11.7	0.0
Fishing piers	22.6	35.0	0.0
Swimming beaches	21.0	21.7	0.0
Boat launching ramps	14.7	20.0	0.0
Shore fishing/ice fishing areas	11.3	23.3	0.0
<b>Day Use Facilities</b>			
Dog parks	39.9	26.7	26.7
Nature/Interprative centers	28.6	23.3	28.2
Wildlife/nature observation areas	24.1	15.0	23.8
Natural park areas/open spaces	17.8	20.0	23.3
Playgrounds	15.5	21.7	13.4
Picnic shelters	14.4	20.0	12.4
Picnic grounds	10.2	13.3	9.9
<b>Trails</b>			
Paved trails for walking, hiking, skating, biking	44.6	56.7	42.1
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	60.0	28.2
Mountain bike trails	38.8	46.7	32.7
Unpaved trails for walking, hiking, biking	36.2	38.3	36.6
Horseback trails	32.5	38.3	30.7
Nature/interpretive trails	30.2	40.0	34.7
Cross-country ski trails	27.0	23.3	31.7
Snowmobile trails	16.3	8.3	19.3
<b>Overnight Facilities</b>			
Modern campgrounds with electric hookups	28.1	38.3	0.0
Camper cabins	27.6	40.0	0.0
Dispersed camping sites	22.8	25.0	0.0
Primitive campgrounds	21.8	21.7	0.0
<b>Hunting Facilities</b>			
Accessible hunting blinds, stands, areas for people with disabilities	33.3	28.3	0.0
Hunter walking trails	26.8	13.3	0.0
Big game hunting areas	23.6	20.0	0.0
Small game hunting areas	20.2	21.7	0.0
Waterfowl hunting areas	19.7	15.0	0.0

When looking at facility needs now along with facilities needed within five years, the correlation by type of provider is fairly good (cities = 0.788, counties = 0.854, school districts = 0.975). However, the correlation among provides is slightly less when looking at facility needs now along with facilities needed within five years, than when only looking at facility needs now (Table 4).

Table 4  
Correlation Coefficient of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by Type of Provider

Provider	County	School
City	0.508	0.552
County		0.190

As with the facility needs now rankings, all three provides ranked paved trails for walking, hiking, skating, biking higher (Table 5). Cities and counties ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) trails and unpaved trails for walking, hiking, biking higher. Cities and school districts ranked soccer fields higher. Cities also ranked skateboard parks higher. Counties ranked mountain bike trails, nature/interpretive centers, and modern campgrounds with electric hookups higher. School districts ranked ice rinks, basketball courts, and volleyball courts higher.

As with the facility needs now rankings, all three providers ranked golf courses lower. Cities and counties ranked running tracks lower. Cities ranked shore fishing/ice fishing areas, boat launching ramps, and waterfowl hunting areas lower. Counties ranked marinas, football fields, and baseball fields lower. School districts ranked snowmobile trails, picnic grounds, archery ranges, and picnic shelters lower.

As with facility needs now, there was little commonality among facility provider types when looking at facilities by facility categories (Table 6). However, each type of provider was consistent in ranking higher and lower facilities by category.

A comparison of facility needs now with facilities currently provided appears in the discussion for each type of facility provider.

Table 5  
Facilities Needed Now Plus Facilities Needed Within Five Years by Type of Provider  
(percent indicating need)

<b>Facility</b>	<b>City</b>	<b>County</b>	<b>School</b>
Paved trails for walking, hiking, skating, biking	59.2	70.3	53.3
Soccer fields	56.1	20.3	63.7
Unpaved trails for walking, hiking, biking	48.4	57.8	45.3
Skateboard parks	48.2	39.1	39.2
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	70.3	35.4
Dog parks	46.3	37.5	28.3
Outdoor swimming pools	45.1	26.6	0.0
Mountain bike trails	44.6	53.1	34.9
Nature/interpretive trails	41.1	53.1	41.0
Ice rinks	40.6	20.3	47.2
Modern campgrounds with electric hookups	39.9	59.4	0.0
Cross-country ski trails	39.1	50.0	40.6
Horseback trails	37.0	50.0	33.0
Nature/Interprtative centers	36.0	39.1	34.4
Picnic shelters	34.8	45.3	25.0
Volleyball courts	33.7	28.1	46.2
Accessible hunting blinds, stands, areas for people with disabilities	33.4	40.6	0.0
Snow boarding areas	33.2	20.3	27.8
Playgrounds	32.9	42.2	32.1
Camper cabins	32.7	43.8	0.0
Archery ranges	32.5	32.8	23.6
Primitive campgrounds	32.5	43.8	0.0
Baseball fields	31.7	15.6	38.7
Fishing piers	31.7	46.9	0.0
Wildlife/nature observation areas	31.7	39.1	32.5
Downhill ski areas	31.3	20.3	24.1
Basketball courts	31.0	28.1	51.4
Hunter walking trails	30.8	26.6	0.0
Natural park areas/open spaces	30.5	45.3	32.1
Softball fields	30.3	20.3	42.5
Sledding hills	29.8	21.9	28.3
Marinas	28.4	18.8	0.0
Swimming beaches	28.2	39.1	0.0
Dispersed camping sites	28.2	45.3	0.0
Tennis courts	27.7	20.3	42.0
Football fields	27.2	9.4	30.2
Big game hunting areas	27.2	31.3	0.0
Small game hunting areas	27.2	29.7	0.0
Rifle-pistol ranges	27.0	23.4	0.0
Picnic grounds	26.7	39.1	22.2
Snowmobile trails	26.5	29.7	24.1
Waterfowl hunting areas	25.8	25.0	0.0
Running tracks	23.2	7.8	29.7
Boat launching ramps	22.0	29.7	0.0
Shore fishing/ice fishing areas	17.7	31.3	0.0
Golf courses	15.0	12.5	17.0

Table 6  
Facilities Needed Now Plus Facilities Needed Within Five Years by Category by Type of Provider

<b>Facility</b>	<b>City</b>	<b>County</b>	<b>School</b>
<b>Outdoor Sport Courts &amp; Fields</b>			
Soccer fields	56.1	20.3	63.7
Skateboard parks	48.2	39.1	39.2
Ice rinks	40.6	20.3	47.2
Volleyball courts	33.7	28.1	46.2
Snow boarding areas	33.2	20.3	27.8
Archery ranges	32.5	32.8	23.6
Baseball fields	31.7	15.6	38.7
Downhill ski areas	31.3	20.3	24.1
Basketball courts	31.0	28.1	51.4
Softball fields	30.3	20.3	42.5
Sledding hills	29.8	21.9	28.3
Tennis courts	27.7	20.3	42.0
Football fields	27.2	9.4	30.2
Rifle-pistol ranges	27.0	23.4	0.0
Running tracks	23.2	7.8	29.7
Golf courses	15.0	12.5	17.0
<b>Water-based Facilities</b>			
Outdoor swimming pools	45.1	26.6	0.0
Fishing piers	31.7	46.9	0.0
Marinas	28.4	18.8	0.0
Swimming beaches	28.2	39.1	0.0
Boat launching ramps	22.0	29.7	0.0
Shore fishing/ice fishing areas	17.7	31.3	0.0
<b>Day Use Facilities</b>			
Dog parks	46.3	37.5	28.3
Nature/Interprative centers	36.0	39.1	34.4
Picnic shelters	34.8	45.3	25.0
Playgrounds	32.9	42.2	32.1
Wildlife/nature observation areas	31.7	39.1	32.5
Natural park areas/open spaces	30.5	45.3	32.1
Picnic grounds	26.7	39.1	22.2
<b>Trails</b>			
Paved trails for walking, hiking, skating, biking	59.2	70.3	53.3
Unpaved trails for walking, hiking, biking	48.4	57.8	45.3
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	70.3	35.4
Mountain bike trails	44.6	53.1	34.9
Nature/interpretive trails	41.1	53.1	41.0
Cross-country ski trails	39.1	50.0	40.6
Horseback trails	37.0	50.0	33.0
Snowmobile trails	26.5	29.7	24.1
<b>Overnight Facilities</b>			
Modern campgrounds with electric hookups	39.9	59.4	0.0
Camper cabins	32.7	43.8	0.0
Primitive campgrounds	32.5	43.8	0.0
Dispersed camping sites	28.2	45.3	0.0
<b>Hunting Facilities</b>			
Accessible hunting blinds, stands, areas for people with disabilities	33.4	40.6	0.0
Hunter walking trails	30.8	26.6	0.0
Big game hunting areas	27.2	31.3	0.0
Small game hunting areas	27.2	29.7	0.0
Waterfowl hunting areas	25.8	25.0	0.0

When looking at outdoor recreation facility needs, it's informative to look at the current status of outdoor recreation facility supply. Counties and school districts were asked to indicate if they provided each facility prior to rating the adequacy of facility supply. Cities were asked if their residents had near-home access to each facility prior to rating the adequacy of facility supply. Later in the survey, cities were asked if they provided each facility for their residents.

There was very little correlation in the ranking of facilities provided by cities, counties, and school districts (Table 7). Cities were more similar to school districts.

Table 7  
Correlation coefficients of Facilities Provided  
by Type of Provider

Provider	County	School
City	0.371	0.701
County		0.006

As expected, the rankings of facilities provided follow that traditionally associated with each type of provider (Table 8). All three providers included playgrounds in their top five facilities. Cities and counties included picnic shelters and picnic grounds in their top five. (Picnic shelters and picnic grounds were ranked fairly low by school districts.) Cities also included softball fields and basketball fields in their top five while counties included natural park areas/open spaces and unpaved trails for walking, hiking, biking in their top five. School districts included other Outdoor Sport Courts & Fields in their top five—softball fields, baseball fields, football fields, and running tracks.

All three providers listed downhill ski areas as a facility they did not provide. Few cities provided accessible hunting blinds, stands, areas for people with disabilities; camper cabins; hunter walking trails; or dog parks. Few counties provided rifle-pistol ranges, football fields, running tracks, marinas, or snow boarding areas. Very few school districts provided dog parks, snow boarding areas, mountain bike trails or horseback trails.

When looked at by facility category, cities were most likely to provide Day Use Facilities followed by Outdoor Sport Courts & Fields. Cities were least likely to provide Hunting Facilities followed by Overnight Facilities. Counties were most likely to provide Day Use Facilities followed by Trails. Counties were least likely to provide Outdoor Sport Courts & Fields followed by Hunting Facilities. School districts were most likely to provide Outdoor Sport Courts & Fields and least likely to provide Trails.



Table 8  
Facilities Provided by Type of Provider  
(percent providing facility)

<b>Facility</b>	<b>City</b>	<b>County</b>	<b>School</b>
Playgrounds	94.5	59.4	84.6
Picnic shelters	91.5	79.7	7.1
Picnic grounds	89.1	79.7	5.9
Softball fields	84.6	15.6	78.7
Basketball courts	77.1	6.3	73.1
Baseball fields	74.9	9.4	84.6
Tennis courts	66.4	7.8	65.6
Ice rinks	62.3	7.8	14.6
Volleyball courts	59.5	31.3	43.5
Paved trails for walking, hiking, skating, biking	50.8	57.8	7.5
Shore fishing/ice fishing areas	43.9	45.3	0.0
Football fields	40.1	1.6	91.3
Natural park areas/open space	37.5	73.4	15.8
Boat launching ramps	36.4	51.6	0.0
Unpaved trails for walking, hiking, biking	35.4	65.6	5.9
Soccer fields	33.8	3.1	45.8
Fishing piers	33.8	45.3	0.0
Sledding hills	28.3	12.5	6.3
Snowmobile trails	28.1	32.8	2.0
Golf courses	26.5	6.3	2.4
Swimming beaches	26.5	51.6	0.0
Outdoor swimming pools	23.1	4.7	0.0
Modern campgrounds with electric hookups	22.7	48.4	0.0
Skateboard parks	22.5	3.1	2.0
Running tracks	20.2	1.6	79.1
Wildlife/nature observation areas	20.0	45.3	15.0
Primitive campgrounds	17.8	51.6	0.0
Cross-country ski trails	16.6	48.4	6.7
Nature/interpretive trails	12.8	42.2	9.1
Nature/interpretive centers	10.1	26.6	11.9
Small game hunting areas	10.1	17.2	0.0
Archery ranges	9.3	10.9	2.8
Waterfowl hunting areas	9.1	15.6	0.0
Rifle-pistol ranges	7.9	0.0	0.0
Big game hunting areas	7.7	18.8	0.0
Marinas	5.3	1.6	0.0
Horseback trails	5.3	40.6	0.8
Dispersed camping sites	5.3	31.3	0.0
Mountain bike trails	5.1	29.7	0.8
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	4.7	17.2	1.2
Snow boarding areas	3.8	1.6	0.4
Dog parks	3.6	6.3	0.4
Hunter walking trails	3.0	14.1	0.0
Downhill ski areas	2.8	1.6	0.8
Camper cabins	1.8	10.9	0.0
Accessible hunting blinds, stands, areas for people with disabilities	1.0	4.7	0.0

## Facility Needs of Cities

The most appropriate and knowledgeable city officials were asked to rate the “adequacy of near-home (within a half-hour drive of home) facility supply to community residents”. It is important to note that respondents were *not* only asked to rate adequacy for facilities they currently provide. Rather, they were asked to think broadly of the facility needs in their local communities, whether or not they are specifically involved with the provision of those facilities.

To examine how facility needs varied across the state and by standard demographic breakdowns, city data were analyzed by region, population density change 1990 to 2000, 2000 population, and 2000 median household income.

### Analysis by Region

Regions used for this analysis are the four DNR regions with the Central DNR region broken into the seven county Twin Cities metropolitan region (Metro) and the balance as the Central region (Figure 1). The Metro region contains half of the Minnesota population and is covered by the regional governmental agency (Metropolitan Council) that has outdoor recreation functions.

When looked at by region there was some commonality among Northwest, South, and Central regions (Table 9). The Metro region differed most from the other regions. The Northeast region was somewhat in between.

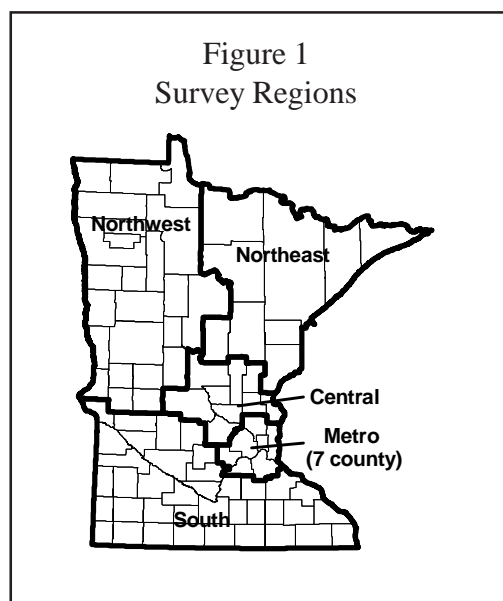


Table 9  
Correlation Coefficients of Facilities Needed Now by Cities  
by Region

Region	Northeast	South	Central	Metro
Northwest	0.568	0.893	0.842	0.350
Northeast		0.556	0.519	0.354
South			0.815	0.310
Central				0.511

There was some commonality among regions in the higher and lower ranked facilities (Table 10). Higher ranked facilities for three or more regions included: paved trails for walking, hiking, skating, biking—Northwest, South, Central; motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)—Northwest, Northeast, South, Central; soccer fields—Northeast, South, Metro; skateboard parks—Northeast, Central, Metro; dog parks—Northeast, South, Central, Metro; mountain bike trails—Northwest, South, Central; and unpaved trails for walking, hiking, biking—Northwest, Northeast, Central.

Table 10  
Facilities Needed Now by Cities by Region  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Northwest</b>	<b>Northeast</b>	<b>South</b>	<b>Central</b>	<b>Metro</b>
Paved trails for walking, hiking, skating, biking	44.6	54.4	37.2	51.5	46.5	29.7
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	60.3	39.5	45.6	53.5	27.5
Soccer fields	42.5	41.2	39.5	47.1	39.5	39.6
Skateboard parks	41.7	41.2	39.5	40.4	58.1	37.4
Dog parks	39.9	35.3	44.2	43.4	46.5	33.0
Mountain bike trails	38.8	51.5	37.2	41.2	46.5	23.1
Unpaved trails for walking, hiking, biking	36.2	47.1	39.5	36.8	48.8	19.8
Accessible hunting blinds, stands, areas for people with disabilities	33.3	42.6	32.6	34.6	48.8	17.6
Outdoor swimming pools	33.1	36.8	53.5	24.3	39.5	30.8
Horseback trails	32.5	45.6	30.2	35.3	39.5	16.5
Snow boarding areas	32.3	41.2	32.6	38.2	30.2	17.6
Downhill ski areas	31.8	38.2	27.9	39.0	32.6	17.6
Nature/interpretive trails	30.2	42.6	32.6	27.2	41.9	18.7
Archery ranges	29.7	33.8	32.6	33.1	37.2	16.5
Nature/Interprtative centers	28.6	36.8	23.3	29.4	46.5	15.4
Modern campgrounds with electric hookups	28.1	30.9	30.2	36.0	25.6	14.3
Camper cabins	27.6	36.8	4.7	35.3	39.5	14.3
Cross-country ski trails	27.0	36.8	14.0	30.1	30.2	19.8
Hunter walking trails	26.8	29.4	14.0	28.7	44.2	19.8
Marinas	26.5	38.2	16.3	30.9	27.9	15.4
Sledding hills	25.5	30.9	30.2	28.7	27.9	13.2
Wildlife/nature observation areas	24.1	30.9	23.3	24.3	34.9	14.3
Volleyball courts	23.9	23.5	32.6	20.6	27.9	23.1
Ice rinks	23.9	27.9	16.3	26.5	25.6	19.8
Big game hunting areas	23.6	27.9	2.3	26.5	34.9	20.9
Rifle-pistol ranges	23.4	29.4	25.6	22.8	25.6	17.6
Dispersed camping sites	22.8	29.4	9.3	27.9	30.2	13.2
Fishing piers	22.6	19.1	23.3	27.9	27.9	14.3
Primitive campgrounds	21.8	32.4	14.0	25.0	23.3	12.1
Swimming beaches	21.0	17.6	27.9	25.0	30.2	9.9
Small game hunting areas	20.2	22.1	4.7	19.9	30.2	22.0
Football fields	19.9	11.8	14.0	17.6	23.3	30.8
Waterfowl hunting areas	19.7	22.1	2.3	20.6	27.9	20.9
Running tracks	19.2	20.6	32.6	22.8	20.9	5.5
Natural park areas/open spaces	17.8	27.9	14.0	13.2	25.6	15.4
Basketball courts	17.6	13.2	18.6	14.7	27.9	19.8
Baseball fields	17.6	11.8	14.0	11.0	25.6	29.7
Tennis courts	17.1	20.6	14.0	19.1	16.3	13.2
Snowmobile trails	16.3	16.2	20.9	12.5	18.6	18.7
Softball fields	15.7	10.3	23.3	11.0	16.3	23.1
Playgrounds	15.5	20.6	16.3	17.6	16.3	7.7
Boat launching ramps	14.7	11.8	16.3	14.7	20.9	13.2
Picnic shelters	14.4	8.8	27.9	11.0	16.3	16.5
Shore fishing/ice fishing areas	11.3	8.8	11.6	13.2	14.0	8.8
Picnic grounds	10.2	5.9	16.3	8.1	11.6	13.2
Golf courses	9.7	8.8	9.3	11.8	11.6	6.6

Lower ranked facilities for three or more regions included: golf courses—Northwest, Northeast, South, Central, Metro; picnic grounds—Northwest, South, Central; shore fishing/ice fishing areas—Northwest, Central, Metro; picnic shelters—Northwest, South, Central; and softball fields— Northwest, South, Central.

When looked at by facility category, correlations between regions varied widely. However, there was some commonality for higher and lower ranked facilities within each facility category—top two and bottom two facilities (Table 11).

For Outdoor Sport Courts & Fields, all five regions ranked soccer fields and skateboard parks in their top two. All of the regions except South ranked golf courses in their bottom two.

For Water-based Facilities, all regions except South ranked swimming pools in their top two. All five regions ranked shore fishing/ice fishing areas in their bottom two.

For Day Use Facilities, all five regions ranked dog parks in their top two. All five regions ranked picnic grounds in their bottom two.

For Trails, all five regions ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) in their top two. All five regions ranked snowmobile trails in their bottom two.

For Overnight Facilities, the regions showed little similarity in rankings.

For Hunting Facilities, there was good agreement for all regions except Metro in ranking accessible hunting blinds, stands, areas for people with disabilities and hunter walking trails in the top two. All regions except Metro ranked waterfowl hunting areas in their bottom two. Metro reversed these ranking.

Table 11  
Facilities Needed Now by Cities by Category by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	42.5	41.2	39.5	47.1	39.5	39.6
Skateboard parks	41.7	41.2	39.5	40.4	58.1	37.4
Snow boarding areas	32.3	41.2	32.6	38.2	30.2	17.6
Downhill ski areas	31.8	38.2	27.9	39.0	32.6	17.6
Archery ranges	29.7	33.8	32.6	33.1	37.2	16.5
Sledding hills	25.5	30.9	30.2	28.7	27.9	13.2
Volleyball courts	23.9	23.5	32.6	20.6	27.9	23.1
Ice rinks	23.9	27.9	16.3	26.5	25.6	19.8
Rifle-pistol ranges	23.4	29.4	25.6	22.8	25.6	17.6
Football fields	19.9	11.8	14.0	17.6	23.3	30.8
Running tracks	19.2	20.6	32.6	22.8	20.9	5.5
Basketball courts	17.6	13.2	18.6	14.7	27.9	19.8
Baseball fields	17.6	11.8	14.0	11.0	25.6	29.7
Tennis courts	17.1	20.6	14.0	19.1	16.3	13.2
Softball fields	15.7	10.3	23.3	11.0	16.3	23.1
Golf courses	9.7	8.8	9.3	11.8	11.6	6.6
<b>Water-based Facilities</b>						
Outdoor swimming pools	33.1	36.8	53.5	24.3	39.5	30.8
Marinas	26.5	38.2	16.3	30.9	27.9	15.4
Fishing piers	22.6	19.1	23.3	27.9	27.9	14.3
Swimming beaches	21.0	17.6	27.9	25.0	30.2	9.9
Boat launching ramps	14.7	11.8	16.3	14.7	20.9	13.2
Shore fishing/ice fishing areas	11.3	8.8	11.6	13.2	14.0	8.8
<b>Day Use Facilities</b>						
Dog parks	39.9	35.3	44.2	43.4	46.5	33.0
Nature/Interprtative centers	28.6	36.8	23.3	29.4	46.5	15.4
Wildlife/nature observation areas	24.1	30.9	23.3	24.3	34.9	14.3
Natural park areas/open spaces	17.8	27.9	14.0	13.2	25.6	15.4
Playgrounds	15.5	20.6	16.3	17.6	16.3	7.7
Picnic shelters	14.4	8.8	27.9	11.0	16.3	16.5
Picnic grounds	10.2	5.9	16.3	8.1	11.6	13.2
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	44.6	54.4	37.2	51.5	46.5	29.7
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	60.3	39.5	45.6	53.5	27.5
Mountain bike trails	38.8	51.5	37.2	41.2	46.5	23.1
Unpaved trails for walking, hiking, biking	36.2	47.1	39.5	36.8	48.8	19.8
Horseback trails	32.5	45.6	30.2	35.3	39.5	16.5
Nature/interpretive trails	30.2	42.6	32.6	27.2	41.9	18.7
Cross-country ski trails	27.0	36.8	14.0	30.1	30.2	19.8
Snowmobile trails	16.3	16.2	20.9	12.5	18.6	18.7
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	28.1	30.9	30.2	36.0	25.6	14.3
Camper cabins	27.6	36.8	4.7	35.3	39.5	14.3
Dispersed camping sites	22.8	29.4	9.3	27.9	30.2	13.2
Primitive campgrounds	21.8	32.4	14.0	25.0	23.3	12.1
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	33.3	42.6	32.6	34.6	48.8	17.6
Hunter walking trails	26.8	29.4	14.0	28.7	44.2	19.8
Big game hunting areas	23.6	27.9	2.3	26.5	34.9	20.9
Small game hunting areas	20.2	22.1	4.7	19.9	30.2	22.0
Waterfowl hunting areas	19.7	22.1	2.3	20.6	27.9	20.9

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by region is fairly good, except for the Central and the Metro regions—Northwest = 0.943, Northeast = 0.859, South = 0.869, Central = 0.664, Metro = 0.769. As with facilities needed now, there was some commonality among the Northwest, South, and Central regions in ranking facilities needed now plus facilities needed within five years (Table 12). The Metro region differed most from the other regions. The Northeast was somewhat in between.

Table 12  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five years  
by Cities by Region

Region	Northeast	South	Central	Metro
Northwest	0.516	0.918	0.728	0.209
Northeast		0.573	0.662	0.441
South			0.748	0.247
Central				0.584

There was some commonality among regions in the higher and lower ranked facilities (Table 13). Paved trails for walking, hiking, skating, biking and soccer fields were ranked in the top five by all regions. Other facilities ranked in the top five by three or more regions included unpaved trails for walking, hiking, biking; skateboard parks; and motorized off-highway vehicle trails (ATV, 4X4, motorcycle). Golf courses and shore fishing/ice fishing areas were ranked in the bottom five by all regions. Other facilities ranked in the bottom five by three or more regions included boat launching ramps and football fields.

When looked at by facility category, there was good agreement among regions in the higher and lower ranked facilities within each facility category (Table 14).

Table 13  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
Paved trails for walking, hiking, skating, biking	59.2	66.2	43.8	64.9	56.3	54.1
Soccer fields	56.1	51.4	43.8	56.3	54.2	66.3
Unpaved trails for walking, hiking, biking	48.4	58.1	43.8	50.3	52.1	38.8
Skateboard parks	48.2	44.6	45.8	43.7	70.8	48.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	60.8	50.0	48.3	54.2	28.6
Dog parks	46.3	40.5	41.7	44.4	47.9	55.1
Outdoor swimming pools	45.1	45.9	50.0	42.4	58.3	39.8
Mountain bike trails	44.6	51.4	39.6	49.7	50.0	31.6
Nature/interpretive trails	41.1	48.6	39.6	37.7	52.1	35.7
Ice rinks	40.6	43.2	29.2	44.4	47.9	34.7
Modern campgrounds with electric hookups	39.9	39.2	43.8	51.0	43.8	19.4
Cross-country ski trails	39.1	47.3	29.2	39.7	45.8	33.7
Horseback trails	37.0	48.6	33.3	37.7	47.9	23.5
Nature/Interprative centers	36.0	39.2	33.3	35.8	52.1	27.6
Picnic shelters	34.8	27.0	41.7	31.1	43.8	38.8
Volleyball courts	33.7	28.4	43.8	31.8	41.7	31.6
Accessible hunting blinds, stands, areas for people with disabilities	33.4	44.6	31.3	36.4	43.8	16.3
Snow boarding areas	33.2	43.2	33.3	38.4	35.4	16.3
Playgrounds	32.9	33.8	39.6	34.4	45.8	20.4
Camper cabins	32.7	40.5	14.6	41.7	43.8	16.3
Archery ranges	32.5	36.5	33.3	35.8	39.6	20.4
Primitive campgrounds	32.5	37.8	29.2	37.7	41.7	17.3
Baseball fields	31.7	18.9	27.1	26.5	39.6	48.0
Fishing piers	31.7	28.4	29.2	34.4	37.5	28.6
Wildlife/nature observation areas	31.7	35.1	22.9	31.1	43.8	28.6
Downhill ski areas	31.3	37.8	31.3	37.7	31.3	16.3
Basketball courts	31.0	21.6	33.3	27.2	43.8	36.7
Hunter walking trails	30.8	32.4	25.0	33.8	45.8	20.4
Natural park areas/open spaces	30.5	32.4	22.9	27.2	45.8	30.6
Softball fields	30.3	16.2	31.3	26.5	39.6	41.8
Sledding hills	29.8	39.2	29.2	33.8	31.3	16.3
Marinas	28.4	37.8	18.8	31.8	31.3	19.4
Swimming beaches	28.2	21.6	37.5	31.1	41.7	17.3
Dispersed camping sites	28.2	33.8	18.8	34.4	35.4	15.3
Tennis courts	27.7	25.7	33.3	29.1	37.5	19.4
Football fields	27.2	17.6	22.9	22.5	27.1	43.9
Big game hunting areas	27.2	28.4	12.5	31.8	37.5	21.4
Small game hunting areas	27.2	27.0	12.5	31.1	35.4	24.5
Rifle-pistol ranges	27.0	31.1	31.3	25.8	33.3	20.4
Picnic grounds	26.7	23.0	31.3	23.2	37.5	27.6
Snowmobile trails	26.5	24.3	31.3	25.2	27.1	27.6
Waterfowl hunting areas	25.8	27.0	16.7	27.2	33.3	23.5
Running tracks	23.2	27.0	31.3	26.5	31.3	7.1
Boat launching ramps	22.0	18.9	22.9	21.9	25.0	22.4
Shore fishing/ice fishing areas	17.7	17.6	16.7	18.5	18.8	16.3
Golf courses	15.0	12.2	10.4	19.9	16.7	11.2

Table 14  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Category by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	56.1	51.4	43.8	56.3	54.2	66.3
Skateboard parks	48.2	44.6	45.8	43.7	70.8	48.0
Ice rinks	40.6	43.2	29.2	44.4	47.9	34.7
Volleyball courts	33.7	28.4	43.8	31.8	41.7	31.6
Snow boarding areas	33.2	43.2	33.3	38.4	35.4	16.3
Archery ranges	32.5	36.5	33.3	35.8	39.6	20.4
Baseball fields	31.7	18.9	27.1	26.5	39.6	48.0
Downhill ski areas	31.3	37.8	31.3	37.7	31.3	16.3
Basketball courts	31.0	21.6	33.3	27.2	43.8	36.7
Softball fields	30.3	16.2	31.3	26.5	39.6	41.8
Sledding hills	29.8	39.2	29.2	33.8	31.3	16.3
Tennis courts	27.7	25.7	33.3	29.1	37.5	19.4
Football fields	27.2	17.6	22.9	22.5	27.1	43.9
Rifle-pistol ranges	27.0	31.1	31.3	25.8	33.3	20.4
Running tracks	23.2	27.0	31.3	26.5	31.3	7.1
Golf courses	15.0	12.2	10.4	19.9	16.7	11.2
<b>Water-based Facilities</b>						
Outdoor swimming pools	45.1	45.9	50.0	42.4	58.3	39.8
Fishing piers	31.7	28.4	29.2	34.4	37.5	28.6
Marinas	28.4	37.8	18.8	31.8	31.3	19.4
Swimming beaches	28.2	21.6	37.5	31.1	41.7	17.3
Boat launching ramps	22.0	18.9	22.9	21.9	25.0	22.4
Shore fishing/ice fishing areas	17.7	17.6	16.7	18.5	18.8	16.3
<b>Day Use Facilities</b>						
Dog parks	46.3	40.5	41.7	44.4	47.9	55.1
Nature/Interprative centers	36.0	39.2	33.3	35.8	52.1	27.6
Picnic shelters	34.8	27.0	41.7	31.1	43.8	38.8
Playgrounds	32.9	33.8	39.6	34.4	45.8	20.4
Wildlife/nature observation areas	31.7	35.1	22.9	31.1	43.8	28.6
Natural park areas/open spaces	30.5	32.4	22.9	27.2	45.8	30.6
Picnic grounds	26.7	23.0	31.3	23.2	37.5	27.6
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	59.2	66.2	43.8	64.9	56.3	54.1
Unpaved trails for walking, hiking, biking	48.4	58.1	43.8	50.3	52.1	38.8
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	60.8	50.0	48.3	54.2	28.6
Mountain bike trails	44.6	51.4	39.6	49.7	50.0	31.6
Nature/interpretive trails	41.1	48.6	39.6	37.7	52.1	35.7
Cross-country ski trails	39.1	47.3	29.2	39.7	45.8	33.7
Horseback trails	37.0	48.6	33.3	37.7	47.9	23.5
Snowmobile trails	26.5	24.3	31.3	25.2	27.1	27.6
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	39.9	39.2	43.8	51.0	43.8	19.4
Camper cabins	32.7	40.5	14.6	41.7	43.8	16.3
Primitive campgrounds	32.5	37.8	29.2	37.7	41.7	17.3
Dispersed camping sites	28.2	33.8	18.8	34.4	35.4	15.3
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	33.4	44.6	31.3	36.4	43.8	16.3
Hunter walking trails	30.8	32.4	25.0	33.8	45.8	20.4
Big game hunting areas	27.2	28.4	12.5	31.8	37.5	21.4
Small game hunting areas	27.2	27.0	12.5	31.1	35.4	24.5
Waterfowl hunting areas	25.8	27.0	16.7	27.2	33.3	23.5



### Analysis by Population Density Change

Density change is the population change from 1990 to 2000 per square mile. Negative numbers indicate a reduction in population. The higher the number the larger the population increase per square mile. The trend in Minnesota (as elsewhere in the nation) is to an increasing urban population. Over the last 100 years, almost all new additions to the Minnesota population have been urban additions.

There was a fairly strong correlation among cities when the data were looked at by population density change (Table 15). This demographic grouping showed the highest correlation of all the demographic groupings examined.

Table 15  
Correlation Coefficients of Facilities Needed Now by Cities  
by Density Change

Density change	0.1 - 20.0	20.1 - 50.0	50.1 +
Negative - 0.0	0.893	0.869	0.893
0.1 - 20.0		0.860	0.841
20.1 - 50.0			0.820

There was good agreement among density change classes in the higher and lower ranked facilities (Table 16).

As with the overall rankings, there was a lot of commonality among density change classes within facility category (Table 17).

Table 16  
Facilities Needed Now by Cities by Density Change  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>neg - 0.0</b>	<b>0.1 - 20.0</b>	<b>20.1 - 50.0</b>	<b>50.1 - high</b>
Paved trails for walking, hiking, skating, biking	44.6	45.2	53.5	34.5	45.5
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	40.4	51.2	46.6	43.8
Soccer fields	42.5	38.5	32.6	43.1	47.2
Skateboard parks	41.7	41.3	39.5	43.1	42.0
Dog parks	39.9	34.6	39.5	43.1	42.0
Mountain bike trails	38.8	37.5	37.2	41.4	39.2
Unpaved trails for walking, hiking, biking	36.2	33.7	48.8	29.3	36.9
Accessible hunting blinds, stands, areas for people with disabilities	33.3	25.0	41.9	31.0	36.9
Outdoor swimming pools	33.1	32.7	39.5	29.3	33.0
Horseback trails	32.5	32.7	37.2	36.2	30.1
Snow boarding areas	32.3	30.8	34.9	39.7	30.1
Downhill ski areas	31.8	29.8	34.9	37.9	30.1
Nature/interpretive trails	30.2	29.8	34.9	25.9	30.7
Archery ranges	29.7	29.8	27.9	34.5	28.4
Nature/Interpretive centers	28.6	27.9	27.9	27.6	29.5
Modern campgrounds with electric hookups	28.1	28.8	27.9	32.8	26.1
Camper cabins	27.6	24.0	20.9	32.8	29.5
Cross-country ski trails	27.0	25.0	30.2	27.6	27.3
Hunter walking trails	26.8	21.2	27.9	24.1	30.7
Marinas	26.5	26.0	25.6	24.1	27.8
Sledding hills	25.5	24.0	30.2	31.0	23.3
Wildlife/nature observation areas	24.1	26.0	25.6	20.7	23.9
Volleyball courts	23.9	23.1	27.9	27.6	22.2
Ice rinks	23.9	21.2	23.3	19.0	27.3
Big game hunting areas	23.6	21.2	25.6	20.7	25.6
Rifle-pistol ranges	23.4	21.2	30.2	25.9	22.2
Dispersed camping sites	22.8	23.1	18.6	22.4	23.9
Fishing piers	22.6	22.1	20.9	17.2	25.0
Primitive campgrounds	21.8	20.2	18.6	25.9	22.2
Swimming beaches	21.0	17.3	25.6	24.1	21.0
Small game hunting areas	20.2	22.1	18.6	12.1	22.2
Football fields	19.9	15.4	16.3	15.5	25.0
Waterfowl hunting areas	19.7	19.2	23.3	13.8	21.0
Running tracks	19.2	16.3	25.6	29.3	15.9
Natural park areas/open spaces	17.8	20.2	20.9	19.0	15.3
Basketball courts	17.6	15.4	14.0	13.8	21.0
Baseball fields	17.6	11.5	14.0	15.5	22.7
Tennis courts	17.1	16.3	16.3	17.2	17.6
Snowmobile trails	16.3	16.3	20.9	17.2	14.8
Softball fields	15.7	9.6	11.6	15.5	20.5
Playgrounds	15.5	11.5	9.3	17.2	18.8
Boat launching ramps	14.7	14.4	20.9	8.6	15.3
Picnic shelters	14.4	17.3	14.0	8.6	14.8
Shore fishing/ice fishing areas	11.3	12.5	11.6	8.6	11.4
Picnic grounds	10.2	9.6	11.6	8.6	10.8
Golf courses	9.7	10.6	7.0	6.9	10.8

Table 17  
Facilities Needed Now by Cities by Category by Density Change  
(percent indicating need)

Facility	Total	neg - 0.0	0.1 - 20.0	20.1 - 50.0	50.1 - high
<b>Outdoor Sport Courts &amp; Fields</b>					
Soccer fields	42.5	38.5	32.6	43.1	47.2
Skateboard parks	41.7	41.3	39.5	43.1	42.0
Snow boarding areas	32.3	30.8	34.9	39.7	30.1
Downhill ski areas	31.8	29.8	34.9	37.9	30.1
Archery ranges	29.7	29.8	27.9	34.5	28.4
Sledding hills	25.5	24.0	30.2	31.0	23.3
Volleyball courts	23.9	23.1	27.9	27.6	22.2
Ice rinks	23.9	21.2	23.3	19.0	27.3
Rifle-pistol ranges	23.4	21.2	30.2	25.9	22.2
Football fields	19.9	15.4	16.3	15.5	25.0
Running tracks	19.2	16.3	25.6	29.3	15.9
Basketball courts	17.6	15.4	14.0	13.8	21.0
Baseball fields	17.6	11.5	14.0	15.5	22.7
Tennis courts	17.1	16.3	16.3	17.2	17.6
Softball fields	15.7	9.6	11.6	15.5	20.5
Golf courses	9.7	10.6	7.0	6.9	10.8
<b>Water-based Facilities</b>					
Outdoor swimming pools	33.1	32.7	39.5	29.3	33.0
Marinas	26.5	26.0	25.6	24.1	27.8
Fishing piers	22.6	22.1	20.9	17.2	25.0
Swimming beaches	21.0	17.3	25.6	24.1	21.0
Boat launching ramps	14.7	14.4	20.9	8.6	15.3
Shore fishing/ice fishing areas	11.3	12.5	11.6	8.6	11.4
<b>Day Use Facilities</b>					
Dog parks	39.9	34.6	39.5	43.1	42.0
Nature/Interpretive centers	28.6	27.9	27.9	27.6	29.5
Wildlife/nature observation areas	24.1	26.0	25.6	20.7	23.9
Natural park areas/open spaces	17.8	20.2	20.9	19.0	15.3
Playgrounds	15.5	11.5	9.3	17.2	18.8
Picnic shelters	14.4	17.3	14.0	8.6	14.8
Picnic grounds	10.2	9.6	11.6	8.6	10.8
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	44.6	45.2	53.5	34.5	45.5
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	40.4	51.2	46.6	43.8
Mountain bike trails	38.8	37.5	37.2	41.4	39.2
Unpaved trails for walking, hiking, biking	36.2	33.7	48.8	29.3	36.9
Horseback trails	32.5	32.7	37.2	36.2	30.1
Nature/interpretive trails	30.2	29.8	34.9	25.9	30.7
Cross-country ski trails	27.0	25.0	30.2	27.6	27.3
Snowmobile trails	16.3	16.3	20.9	17.2	14.8
<b>Overnight Facilities</b>					
Modern campgrounds with electric hookups	28.1	28.8	27.9	32.8	26.1
Camper cabins	27.6	24.0	20.9	32.8	29.5
Dispersed camping sites	22.8	23.1	18.6	22.4	23.9
Primitive campgrounds	21.8	20.2	18.6	25.9	22.2
<b>Hunting Facilities</b>					
Accessible hunting blinds, stands, areas for people with disabilities	33.3	25.0	41.9	31.0	36.9
Hunter walking trails	26.8	21.2	27.9	24.1	30.7
Big game hunting areas	23.6	21.2	25.6	20.7	25.6
Small game hunting areas	20.2	22.1	18.6	12.1	22.2
Waterfowl hunting areas	19.7	19.2	23.3	13.8	21.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by density change classes is fairly good, except for the highest density change class—negative-0.0 = 0.861, 0.1-20.0 = 0.757, 20.1-50.0 = 0.943, 50.1+ = 0.661. Unlike the correlations among density change classes for facilities needed now (0.8 or better), the correlation among density change classes for facilities needed now plus facilities needed within five years was not as good (Table 18).

Table 18  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five years  
by Cities by Density Change

Density change	0.1 - 20.0	20.1 - 50.0	50.1 +
Negative - 0.0	0.668	0.681	0.701
0.1 - 20.0		0.694	0.646
20.1 - 50.0			0.592

There was some commonality among density change classes in the higher ranked facilities (Table 19). There was more variability in the lower ranked facilities.

As with the overall rankings, there was some commonality among density change classes within facility category (Table 20). There was more variability among density change classes within facility categories when facilities needed within five years were included with facilities needed now.

Table 19  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Density Change  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>neg - 0.0</b>	<b>0.1 - 20.0</b>	<b>20.1 - 50.0</b>	<b>50.1 - high</b>
Paved trails for walking, hiking, skating, biking	59.2	60.5	56.3	56.7	59.9
Soccer fields	56.1	45.6	39.6	53.3	67.0
Unpaved trails for walking, hiking, biking	48.4	44.7	58.3	35.0	52.3
Skateboard parks	48.2	42.1	50.0	48.3	51.3
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	40.4	50.0	51.7	48.2
Dog parks	46.3	37.7	43.8	43.3	52.8
Outdoor swimming pools	45.1	39.5	45.8	40.0	49.7
Mountain bike trails	44.6	39.5	43.8	43.3	48.2
Nature/interpretive trails	41.1	36.8	43.8	33.3	45.2
Ice rinks	40.6	34.2	39.6	31.7	47.2
Modern campgrounds with electric hookups	39.9	37.7	33.3	48.3	40.1
Cross-country ski trails	39.1	33.3	43.8	35.0	42.6
Horseback trails	37.0	33.3	43.8	40.0	36.5
Nature/Interprtative centers	36.0	32.5	35.4	33.3	39.1
Picnic shelters	34.8	34.2	33.3	23.3	39.1
Volleyball courts	33.7	29.8	35.4	35.0	35.0
Accessible hunting blinds, stands, areas for people with disabilities	33.4	24.6	41.7	36.7	35.5
Snow boarding areas	33.2	29.8	35.4	43.3	31.5
Playgrounds	32.9	21.9	43.8	31.7	37.1
Camper cabins	32.7	29.8	25.0	40.0	34.0
Archery ranges	32.5	32.5	29.2	36.7	32.0
Primitive campgrounds	32.5	28.9	22.9	35.0	36.0
Baseball fields	31.7	21.9	22.9	28.3	40.6
Fishing piers	31.7	29.8	22.9	30.0	35.5
Wildlife/nature observation areas	31.7	31.6	25.0	25.0	35.5
Downhill ski areas	31.3	28.1	33.3	41.7	29.4
Basketball courts	31.0	22.8	31.3	23.3	38.1
Hunter walking trails	30.8	23.7	31.3	35.0	33.5
Natural park areas/open spaces	30.5	28.1	27.1	25.0	34.5
Softball fields	30.3	21.9	25.0	23.3	38.6
Sledding hills	29.8	27.2	35.4	36.7	27.9
Marinas	28.4	28.1	22.9	26.7	30.5
Swimming beaches	28.2	25.4	29.2	28.3	29.4
Dispersed camping sites	28.2	25.4	20.8	33.3	29.9
Tennis courts	27.7	21.9	25.0	28.3	31.5
Football fields	27.2	18.4	20.8	21.7	35.5
Big game hunting areas	27.2	25.4	27.1	28.3	27.9
Small game hunting areas	27.2	29.8	25.0	20.0	28.4
Rifle-pistol ranges	27.0	25.4	27.1	30.0	26.9
Picnic grounds	26.7	22.8	29.2	21.7	29.9
Snowmobile trails	26.5	27.2	31.3	23.3	25.9
Waterfowl hunting areas	25.8	25.4	29.2	20.0	26.9
Running tracks	23.2	18.4	33.3	30.0	21.3
Boat launching ramps	22.0	25.4	22.9	13.3	22.3
Shore fishing/ice fishing areas	17.7	20.2	14.6	13.3	18.3
Golf courses	15.0	13.2	10.4	13.3	17.8

Table 20  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Category by Density Change  
(percent indicating need)

Facility	Total	neg - 0.0	0.1 - 20.0	20.1 - 50.0	50.1 - high
<b>Outdoor Sport Courts &amp; Fields</b>					
Soccer fields	56.1	45.6	39.6	53.3	67.0
Skateboard parks	48.2	42.1	50.0	48.3	51.3
Ice rinks	40.6	34.2	39.6	31.7	47.2
Volleyball courts	33.7	29.8	35.4	35.0	35.0
Snow boarding areas	33.2	29.8	35.4	43.3	31.5
Archery ranges	32.5	32.5	29.2	36.7	32.0
Baseball fields	31.7	21.9	22.9	28.3	40.6
Downhill ski areas	31.3	28.1	33.3	41.7	29.4
Basketball courts	31.0	22.8	31.3	23.3	38.1
Softball fields	30.3	21.9	25.0	23.3	38.6
Sledding hills	29.8	27.2	35.4	36.7	27.9
Tennis courts	27.7	21.9	25.0	28.3	31.5
Football fields	27.2	18.4	20.8	21.7	35.5
Rifle-pistol ranges	27.0	25.4	27.1	30.0	26.9
Running tracks	23.2	18.4	33.3	30.0	21.3
Golf courses	15.0	13.2	10.4	13.3	17.8
<b>Water-based Facilities</b>					
Outdoor swimming pools	45.1	39.5	45.8	40.0	49.7
Fishing piers	31.7	29.8	22.9	30.0	35.5
Marinas	28.4	28.1	22.9	26.7	30.5
Swimming beaches	28.2	25.4	29.2	28.3	29.4
Boat launching ramps	22.0	25.4	22.9	13.3	22.3
Shore fishing/ice fishing areas	17.7	20.2	14.6	13.3	18.3
<b>Day Use Facilities</b>					
Dog parks	46.3	37.7	43.8	43.3	52.8
Nature/Interprative centers	36.0	32.5	35.4	33.3	39.1
Picnic shelters	34.8	34.2	33.3	23.3	39.1
Playgrounds	32.9	21.9	43.8	31.7	37.1
Wildlife/nature observation areas	31.7	31.6	25.0	25.0	35.5
Natural park areas/open spaces	30.5	28.1	27.1	25.0	34.5
Picnic grounds	26.7	22.8	29.2	21.7	29.9
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	59.2	60.5	56.3	56.7	59.9
Unpaved trails for walking, hiking, biking	48.4	44.7	58.3	35.0	52.3
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	40.4	50.0	51.7	48.2
Mountain bike trails	44.6	39.5	43.8	43.3	48.2
Nature/interpretive trails	41.1	36.8	43.8	33.3	45.2
Cross-country ski trails	39.1	33.3	43.8	35.0	42.6
Horseback trails	37.0	33.3	43.8	40.0	36.5
Snowmobile trails	26.5	27.2	31.3	23.3	25.9
<b>Overnight Facilities</b>					
Modern campgrounds with electric hookups	39.9	37.7	33.3	48.3	40.1
Camper cabins	32.7	29.8	25.0	40.0	34.0
Primitive campgrounds	32.5	28.9	22.9	35.0	36.0
Dispersed camping sites	28.2	25.4	20.8	33.3	29.9
<b>Hunting Facilities</b>					
Accessible hunting blinds, stands, areas for people with disabilities	33.4	24.6	41.7	36.7	35.5
Hunter walking trails	30.8	23.7	31.3	35.0	33.5
Big game hunting areas	27.2	25.4	27.1	28.3	27.9
Small game hunting areas	27.2	29.8	25.0	20.0	28.4
Waterfowl hunting areas	25.8	25.4	29.2	20.0	26.9

## Analysis by Population

Population figures used for this analysis are from the 2000 U.S. Census.

There was little correlation when city data were examined by population (Table 21). The small number of cities in the 50,000 to 100,000 category (8) and greater than 100,000 category (2) resulted in numerous ties when looking at the higher ranked and lower ranked facilities (Table 22).

Table 21  
Correlation Coefficients of Facilities Needed Now by Cities  
by Population

Population	5,000-19,999	20,000-49,999	50,000-99,999	100,000+
<5000	0.640	0.385	0.315	0.370
5,000-19,999		0.655	0.239	0.466
20,000-49,999			0.319	0.249
50,000-99,999				0.043

There was some commonality for cities with populations less than 50,000 when looking at facility categories (Table 23). The small number of cities greater than 50,000 resulted in numerous ties in the rankings.

Table 22  
Facilities Needed Now by Cities by Population  
(percent indicating need)

Facility	Total	<5,000	5,000 - 19,999	20,000 - 49,999	50,000 - 99,999	>=100,000
Paved trails for walking, hiking, skating, biking	44.6	48.6	37.1	20.0	37.5	50.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	46.8	37.1	40.0	25.0	0.0
Soccer fields	42.5	42.3	40.3	48.0	37.5	100.0
Skateboard parks	41.7	42.6	32.3	36.0	87.5	100.0
Dog parks	39.9	37.3	43.5	64.0	25.0	50.0
Mountain bike trails	38.8	41.5	33.9	24.0	25.0	50.0
Unpaved trails for walking, hiking, biking	36.2	41.5	27.4	8.0	12.5	0.0
Accessible hunting blinds, stands, areas for people with disabilities	33.3	35.6	29.0	20.0	37.5	0.0
Outdoor swimming pools	33.1	31.7	38.7	28.0	37.5	100.0
Horseback trails	32.5	36.6	25.8	8.0	25.0	0.0
Snow boarding areas	32.3	37.0	21.0	4.0	37.5	50.0
Downhill ski areas	31.8	36.6	21.0	4.0	37.5	0.0
Nature/interpretive trails	30.2	31.7	29.0	16.0	37.5	0.0
Archery ranges	29.7	31.7	27.4	12.0	12.5	100.0
Nature/Interprtative centers	28.6	28.2	30.6	28.0	37.5	0.0
Modern campgrounds with electric hookups	28.1	29.9	25.8	20.0	12.5	0.0
Camper cabins	27.6	29.6	25.8	16.0	12.5	0.0
Cross-country ski trails	27.0	29.2	22.6	20.0	0.0	50.0
Hunter walking trails	26.8	28.2	21.0	24.0	37.5	0.0
Marinas	26.5	28.9	21.0	12.0	37.5	0.0
Sledding hills	25.5	28.9	21.0	4.0	12.5	0.0
Wildlife/nature observation areas	24.1	25.7	17.7	20.0	37.5	0.0
Volleyball courts	23.9	25.4	22.6	12.0	0.0	100.0
Ice rinks	23.9	26.1	21.0	4.0	37.5	0.0
Big game hunting areas	23.6	23.6	22.6	28.0	25.0	0.0
Rifle-pistol ranges	23.4	22.9	27.4	12.0	37.5	50.0
Dispersed camping sites	22.8	23.6	22.6	16.0	25.0	0.0
Fishing piers	22.6	23.9	19.4	12.0	25.0	50.0
Primitive campgrounds	21.8	21.8	24.2	20.0	12.5	0.0
Swimming beaches	21.0	22.9	19.4	8.0	12.5	0.0
Small game hunting areas	20.2	19.0	21.0	28.0	37.5	0.0
Football fields	19.9	17.3	27.4	32.0	12.5	50.0
Waterfowl hunting areas	19.7	19.4	17.7	24.0	37.5	0.0
Running tracks	19.2	21.1	14.5	8.0	25.0	0.0
Natural park areas/open spaces	17.8	18.7	17.7	12.0	12.5	0.0
Basketball courts	17.6	17.6	22.6	0.0	12.5	100.0
Baseball fields	17.6	14.1	30.6	20.0	37.5	0.0
Tennis courts	17.1	20.4	11.3	0.0	0.0	0.0
Snowmobile trails	16.3	16.5	16.1	16.0	12.5	0.0
Softball fields	15.7	13.7	27.4	12.0	12.5	0.0
Playgrounds	15.5	18.0	11.3	4.0	0.0	0.0
Boat launching ramps	14.7	15.8	11.3	8.0	25.0	0.0
Picnic shelters	14.4	13.0	22.6	12.0	12.5	0.0
Shore fishing/ice fishing areas	11.3	12.3	8.1	4.0	25.0	0.0
Picnic grounds	10.2	9.9	14.5	4.0	12.5	0.0
Golf courses	9.7	10.2	8.1	0.0	37.5	0.0



Table 23  
Facilities Needed Now by Cities by Category by Population  
(percent indicating need)

Facility	Total	<5,000	5,000 - 19,999	20,000 - 49,999	50,000 - 99,999	>=100,000
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	42.5	42.3	40.3	48.0	37.5	100.0
Skateboard parks	41.7	42.6	32.3	36.0	87.5	100.0
Snow boarding areas	32.3	37.0	21.0	4.0	37.5	50.0
Downhill ski areas	31.8	36.6	21.0	4.0	37.5	0.0
Archery ranges	29.7	31.7	27.4	12.0	12.5	100.0
Sledding hills	25.5	28.9	21.0	4.0	12.5	0.0
Volleyball courts	23.9	25.4	22.6	12.0	0.0	100.0
Ice rinks	23.9	26.1	21.0	4.0	37.5	0.0
Rifle-pistol ranges	23.4	22.9	27.4	12.0	37.5	50.0
Football fields	19.9	17.3	27.4	32.0	12.5	50.0
Running tracks	19.2	21.1	14.5	8.0	25.0	0.0
Basketball courts	17.6	17.6	22.6	0.0	12.5	100.0
Baseball fields	17.6	14.1	30.6	20.0	37.5	0.0
Tennis courts	17.1	20.4	11.3	0.0	0.0	0.0
Softball fields	15.7	13.7	27.4	12.0	12.5	0.0
Golf courses	9.7	10.2	8.1	0.0	37.5	0.0
<b>Water-based Facilities</b>						
Outdoor swimming pools	33.1	31.7	38.7	28.0	37.5	100.0
Marinas	26.5	28.9	21.0	12.0	37.5	0.0
Fishing piers	22.6	23.9	19.4	12.0	25.0	50.0
Swimming beaches	21.0	22.9	19.4	8.0	12.5	0.0
Boat launching ramps	14.7	15.8	11.3	8.0	25.0	0.0
Shore fishing/ice fishing areas	11.3	12.3	8.1	4.0	25.0	0.0
<b>Day Use Facilities</b>						
Dog parks	39.9	37.3	43.5	64.0	25.0	50.0
Nature/Interpretive centers	28.6	28.2	30.6	28.0	37.5	0.0
Wildlife/nature observation areas	24.1	25.7	17.7	20.0	37.5	0.0
Natural park areas/open spaces	17.8	18.7	17.7	12.0	12.5	0.0
Playgrounds	15.5	18.0	11.3	4.0	0.0	0.0
Picnic shelters	14.4	13.0	22.6	12.0	12.5	0.0
Picnic grounds	10.2	9.9	14.5	4.0	12.5	0.0
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	44.6	48.6	37.1	20.0	37.5	50.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	46.8	37.1	40.0	25.0	0.0
Mountain bike trails	38.8	41.5	33.9	24.0	25.0	50.0
Unpaved trails for walking, hiking, biking	36.2	41.5	27.4	8.0	12.5	0.0
Horseback trails	32.5	36.6	25.8	8.0	25.0	0.0
Nature/interpretive trails	30.2	31.7	29.0	16.0	37.5	0.0
Cross-country ski trails	27.0	29.2	22.6	20.0	0.0	50.0
Snowmobile trails	16.3	16.5	16.1	16.0	12.5	0.0
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	28.1	29.9	25.8	20.0	12.5	0.0
Camper cabins	27.6	29.6	25.8	16.0	12.5	0.0
Dispersed camping sites	22.8	23.6	22.6	16.0	25.0	0.0
Primitive campgrounds	21.8	21.8	24.2	20.0	12.5	0.0
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	33.3	35.6	29.0	20.0	37.5	0.0
Hunter walking trails	26.8	28.2	21.0	24.0	37.5	0.0
Big game hunting areas	23.6	23.6	22.6	28.0	25.0	0.0
Small game hunting areas	20.2	19.0	21.0	28.0	37.5	0.0
Waterfowl hunting areas	19.7	19.4	17.7	24.0	37.5	0.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by population is fairly good— $<5,000 = 0.878$ ,  $5,000-19,999 = 0.737$ ,  $20,000-49,999 = 0.748$ ,  $50,000-99,999 = 0.748$ ,  $100,000+ = 0.863$ . As with facilities needed now, there was little correlation among population categories for facilities needed now plus facilities needed within five years (Table 24). The small number of cities in the 50,000 to 100,000 category (8) and greater than 100,000 category (2) resulted in numerous ties when looking at the higher ranked and lower ranked facilities.

Table 24  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by Cities by Population

Population	5,000-19,999	20,000-49,999	50,000-99,999	100,000+
<5000	0.571	0.374	0.160	0.328
5,000-19,999		0.788	0.323	0.543
20,000-49,999			0.439	0.281
50,000-99,999				0.059

As with facilities needed now, there was some commonality for cities with populations less than 50,000 in their overall ranking of higher and lower ranked facilities (Table 25). The same holds true when looking at facilities by facility category (Table 26).

Table 25  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Population  
(percent indicating need)

Facility	Total	< 5,000	5,000 - 19,999	20,000 - 49,999	50,000 - 99,999	100,000 +
Paved trails for walking, hiking, skating, biking	59.2	60.5	53.0	66.7	30.0	100.0
Soccer fields	56.1	50.3	68.2	88.9	60.0	100.0
Unpaved trails for walking, hiking, biking	48.4	50.3	48.5	37.0	30.0	0.0
Skateboard parks	48.2	46.5	51.5	48.1	70.0	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	50.3	39.4	37.0	20.0	0.0
Dog parks	46.3	39.5	53.0	88.9	90.0	100.0
Outdoor swimming pools	45.1	43.6	51.5	40.7	50.0	100.0
Mountain bike trails	44.6	47.5	39.4	33.3	20.0	50.0
Nature/interpretive trails	41.1	40.4	47.0	37.0	40.0	0.0
Ice rinks	40.6	42.0	37.9	25.9	50.0	50.0
Modern campgrounds with electric hookups	39.9	41.7	37.9	29.6	30.0	0.0
Cross-country ski trails	39.1	39.5	37.9	40.7	20.0	100.0
Horseback trails	37.0	39.8	31.8	22.2	30.0	0.0
Nature/Interprtative centers	36.0	35.0	40.9	37.0	40.0	0.0
Picnic shelters	34.8	32.2	47.0	40.7	30.0	0.0
Volleyball courts	33.7	34.7	34.8	22.2	10.0	100.0
Accessible hunting blinds, stands, areas for people with disabilities	33.4	36.3	27.3	18.5	30.0	0.0
Snow boarding areas	33.2	38.2	21.2	3.7	30.0	50.0
Playgrounds	32.9	35.4	30.3	18.5	10.0	50.0
Camper cabins	32.7	35.7	25.8	22.2	20.0	0.0
Archery ranges	32.5	34.7	28.8	18.5	10.0	100.0
Primitive campgrounds	32.5	33.1	33.3	29.6	20.0	0.0
Baseball fields	31.7	26.8	47.0	44.4	50.0	50.0
Fishing piers	31.7	30.9	34.8	29.6	40.0	50.0
Wildlife/nature observation areas	31.7	30.9	31.8	40.7	40.0	0.0
Downhill ski areas	31.3	36.0	21.2	3.7	30.0	0.0
Basketball courts	31.0	30.3	39.4	18.5	20.0	100.0
Hunter walking trails	30.8	32.5	25.8	25.9	30.0	0.0
Natural park areas/open spaces	30.5	30.6	30.3	33.3	30.0	0.0
Softball fields	30.3	26.8	45.5	33.3	30.0	50.0
Sledding hills	29.8	32.8	24.2	14.8	20.0	0.0
Marinas	28.4	29.9	28.8	11.1	30.0	0.0
Swimming beaches	28.2	30.3	25.8	18.5	10.0	0.0
Dispersed camping sites	28.2	28.7	28.8	22.2	30.0	0.0
Tennis courts	27.7	29.6	30.3	3.7	10.0	50.0
Football fields	27.2	21.7	42.4	55.6	20.0	50.0
Big game hunting areas	27.2	27.7	24.2	29.6	30.0	0.0
Small game hunting areas	27.2	27.4	24.2	29.6	40.0	0.0
Rifle-pistol ranges	27.0	27.7	28.8	11.1	30.0	50.0
Picnic grounds	26.7	26.4	30.3	22.2	30.0	0.0
Snowmobile trails	26.5	26.8	27.3	29.6	10.0	0.0
Waterfowl hunting areas	25.8	26.1	22.7	25.9	40.0	0.0
Running tracks	23.2	26.1	16.7	7.4	20.0	0.0
Boat launching ramps	22.0	22.6	18.2	22.2	30.0	0.0
Shore fishing/ice fishing areas	17.7	18.5	13.6	18.5	20.0	0.0
Golf courses	15.0	15.3	15.2	3.7	40.0	0.0

Table 26  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Category by Population  
(percent indicating need)

Facility	Total	< 5,000	5,000 - 19,999	20,000 - 49,999	50,000 - 99,999	100,000 +
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	56.1	50.3	68.2	88.9	60.0	100.0
Skateboard parks	48.2	46.5	51.5	48.1	70.0	100.0
Ice rinks	40.6	42.0	37.9	25.9	50.0	50.0
Volleyball courts	33.7	34.7	34.8	22.2	10.0	100.0
Snow boarding areas	33.2	38.2	21.2	3.7	30.0	50.0
Archery ranges	32.5	34.7	28.8	18.5	10.0	100.0
Baseball fields	31.7	26.8	47.0	44.4	50.0	50.0
Downhill ski areas	31.3	36.0	21.2	3.7	30.0	0.0
Basketball courts	31.0	30.3	39.4	18.5	20.0	100.0
Softball fields	30.3	26.8	45.5	33.3	30.0	50.0
Sledding hills	29.8	32.8	24.2	14.8	20.0	0.0
Tennis courts	27.7	29.6	30.3	3.7	10.0	50.0
Football fields	27.2	21.7	42.4	55.6	20.0	50.0
Rifle-pistol ranges	27.0	27.7	28.8	11.1	30.0	50.0
Running tracks	23.2	26.1	16.7	7.4	20.0	0.0
Golf courses	15.0	15.3	15.2	3.7	40.0	0.0
<b>Water-based Facilities</b>						
Outdoor swimming pools	45.1	43.6	51.5	40.7	50.0	100.0
Fishing piers	31.7	30.9	34.8	29.6	40.0	50.0
Marinas	28.4	29.9	28.8	11.1	30.0	0.0
Swimming beaches	28.2	30.3	25.8	18.5	10.0	0.0
Boat launching ramps	22.0	22.6	18.2	22.2	30.0	0.0
Shore fishing/ice fishing areas	17.7	18.5	13.6	18.5	20.0	0.0
<b>Day Use Facilities</b>						
Dog parks	46.3	39.5	53.0	88.9	90.0	100.0
Nature/Interpretive centers	36.0	35.0	40.9	37.0	40.0	0.0
Picnic shelters	34.8	32.2	47.0	40.7	30.0	0.0
Playgrounds	32.9	35.4	30.3	18.5	10.0	50.0
Wildlife/nature observation areas	31.7	30.9	31.8	40.7	40.0	0.0
Natural park areas/open spaces	30.5	30.6	30.3	33.3	30.0	0.0
Picnic grounds	26.7	26.4	30.3	22.2	30.0	0.0
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	59.2	60.5	53.0	66.7	30.0	100.0
Unpaved trails for walking, hiking, biking	48.4	50.3	48.5	37.0	30.0	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	50.3	39.4	37.0	20.0	0.0
Mountain bike trails	44.6	47.5	39.4	33.3	20.0	50.0
Nature/interpretive trails	41.1	40.4	47.0	37.0	40.0	0.0
Cross-country ski trails	39.1	39.5	37.9	40.7	20.0	100.0
Horseback trails	37.0	39.8	31.8	22.2	30.0	0.0
Snowmobile trails	26.5	26.8	27.3	29.6	10.0	0.0
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	39.9	41.7	37.9	29.6	30.0	0.0
Camper cabins	32.7	35.7	25.8	22.2	20.0	0.0
Primitive campgrounds	32.5	33.1	33.3	29.6	20.0	0.0
Dispersed camping sites	28.2	28.7	28.8	22.2	30.0	0.0
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	33.4	36.3	27.3	18.5	30.0	0.0
Hunter walking trails	30.8	32.5	25.8	25.9	30.0	0.0
Big game hunting areas	27.2	27.7	24.2	29.6	30.0	0.0
Small game hunting areas	27.2	27.4	24.2	29.6	40.0	0.0
Waterfowl hunting areas	25.8	26.1	22.7	25.9	40.0	0.0

## Analysis by Income

Income figures used for this analysis are median household income from the 2000 U.S. Census.

There was fairly good correlation among income groups except for cities with a median income of \$50,000 or more (Table 27).

Table 27  
Correlation Coefficients of Facilities Needed Now by Cities  
By Income

Income	\$30,000-\$34,000	\$35,000-\$39,999	\$40,000-\$49,999	\$50,000+
<\$30,000	0.883	0.852	0.820	0.360
\$30,000-\$34,000		0.891	0.842	0.371
\$35,000-\$39,999			0.801	0.456
\$40,000-\$49,999				0.379

All income groups ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) in their top five (Table 28). All groups except \$30,000 - \$34,999 had soccer fields and skateboard parks ranked in their top five. The three groups between \$30,000 and \$49,999 ranked paved trails for walking, hiking, skating, biking in their top five. Three groups (\$30,000-\$34,999, \$40,000-\$49,999, \$50,000+) ranked dog parks in their top five. All groups except \$35,000-\$39,999 ranked golf courses in their bottom five. All groups except \$50,000+ ranked picnic grounds in their bottom five. All except \$40,000-\$49,999 ranked shore fishing/ice fishing areas in their bottom five. Three groups (<\$30,000, \$35,000-\$39,999, \$40,000-\$49,999) ranked baseball fields in their bottom five. Baseball fields was ranked in the top five for \$50,000+.

There was fairly good agreement in the higher and lower ranked facilities when looked at by facility category (Table 29). The Overnight Facilities category showed more variation than the other categories.

Table 28  
Facilities Needed Now by Cities by Income  
(percent indicating need)

Facility	Total	< \$30,000	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
Paved trails for walking, hiking, skating, biking	44.6	47.4	50.7	51.9	45.1	29.3
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	56.4	54.8	39.0	35.2	35.4
Soccer fields	42.5	50.0	30.1	41.6	50.7	40.2
Skateboard parks	41.7	52.6	32.9	45.5	43.7	34.1
Dog parks	39.9	44.9	39.7	33.8	43.7	37.8
Mountain bike trails	38.8	56.4	42.5	36.4	33.8	25.6
Unpaved trails for walking, hiking, biking	36.2	47.4	43.8	35.1	29.6	25.6
Accessible hunting blinds, stands, areas for people with disabilities	33.3	38.5	34.2	37.7	23.9	31.7
Outdoor swimming pools	33.1	44.9	27.4	29.9	28.2	34.1
Horseback trails	32.5	51.3	31.5	27.3	31.0	22.0
Snow boarding areas	32.3	46.2	38.4	31.2	29.6	17.1
Downhill ski areas	31.8	44.9	38.4	29.9	26.8	19.5
Nature/interpretive trails	30.2	46.2	26.0	31.2	28.2	19.5
Archery ranges	29.7	41.0	32.9	29.9	22.5	22.0
Nature/Interprtative centers	28.6	37.2	26.0	27.3	29.6	23.2
Modern campgrounds with electric hookups	28.1	38.5	31.5	26.0	29.6	15.9
Camper cabins	27.6	29.5	28.8	32.5	26.8	20.7
Cross-country ski trails	27.0	44.9	20.5	24.7	23.9	20.7
Hunter walking trails	26.8	28.2	26.0	29.9	16.9	31.7
Marinas	26.5	30.8	31.5	27.3	23.9	19.5
Sledding hills	25.5	38.5	27.4	22.1	23.9	15.9
Wildlife/nature observation areas	24.1	33.3	23.3	24.7	19.7	19.5
Volleyball courts	23.9	32.1	23.3	15.6	29.6	19.5
Ice rinks	23.9	32.1	20.5	20.8	21.1	24.4
Big game hunting areas	23.6	23.1	23.3	20.8	21.1	29.3
Rifle-pistol ranges	23.4	30.8	17.8	22.1	25.4	20.7
Dispersed camping sites	22.8	24.4	20.5	27.3	22.5	19.5
Fishing piers	22.6	20.5	23.3	26.0	28.2	15.9
Primitive campgrounds	21.8	25.6	24.7	19.5	26.8	13.4
Swimming beaches	21.0	23.1	21.9	22.1	23.9	14.6
Small game hunting areas	20.2	20.5	17.8	14.3	18.3	29.3
Football fields	19.9	17.9	15.1	14.3	19.7	31.7
Waterfowl hunting areas	19.7	19.2	15.1	15.6	18.3	29.3
Running tracks	19.2	34.6	16.4	20.8	15.5	8.5
Natural park areas/open spaces	17.8	26.9	20.5	9.1	15.5	17.1
Basketball courts	17.6	20.5	15.1	16.9	16.9	18.3
Baseball fields	17.6	9.0	13.7	9.1	14.1	40.2
Tennis courts	17.1	24.4	20.5	9.1	19.7	12.2
Snowmobile trails	16.3	17.9	12.3	16.9	15.5	18.3
Softball fields	15.7	14.1	5.5	7.8	18.3	31.7
Playgrounds	15.5	21.8	15.1	13.0	15.5	12.2
Boat launching ramps	14.7	11.5	13.7	10.4	19.7	18.3
Picnic shelters	14.4	15.4	11.0	14.3	11.3	19.5
Shore fishing/ice fishing areas	11.3	7.7	11.0	9.1	16.9	12.2
Picnic grounds	10.2	11.5	4.1	9.1	11.3	14.6
Golf courses	9.7	9.0	6.8	13.0	12.7	7.3

Table 29  
Facilities Needed Now by Cities by Category by Income  
(percent indicating need)

Facility	Total	< \$30,000	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	42.5	50.0	30.1	41.6	50.7	40.2
Skateboard parks	41.7	52.6	32.9	45.5	43.7	34.1
Snow boarding areas	32.3	46.2	38.4	31.2	29.6	17.1
Downhill ski areas	31.8	44.9	38.4	29.9	26.8	19.5
Archery ranges	29.7	41.0	32.9	29.9	22.5	22.0
Sledding hills	25.5	38.5	27.4	22.1	23.9	15.9
Volleyball courts	23.9	32.1	23.3	15.6	29.6	19.5
Ice rinks	23.9	32.1	20.5	20.8	21.1	24.4
Rifle-pistol ranges	23.4	30.8	17.8	22.1	25.4	20.7
Football fields	19.9	17.9	15.1	14.3	19.7	31.7
Running tracks	19.2	34.6	16.4	20.8	15.5	8.5
Basketball courts	17.6	20.5	15.1	16.9	16.9	18.3
Baseball fields	17.6	9.0	13.7	9.1	14.1	40.2
Tennis courts	17.1	24.4	20.5	9.1	19.7	12.2
Softball fields	15.7	14.1	5.5	7.8	18.3	31.7
Golf courses	9.7	9.0	6.8	13.0	12.7	7.3
<b>Water-based Facilities</b>						
Outdoor swimming pools	33.1	44.9	27.4	29.9	28.2	34.1
Marinas	26.5	30.8	31.5	27.3	23.9	19.5
Fishing piers	22.6	20.5	23.3	26.0	28.2	15.9
Swimming beaches	21.0	23.1	21.9	22.1	23.9	14.6
Boat launching ramps	14.7	11.5	13.7	10.4	19.7	18.3
Shore fishing/ice fishing areas	11.3	7.7	11.0	9.1	16.9	12.2
<b>Day Use Facilities</b>						
Dog parks	39.9	44.9	39.7	33.8	43.7	37.8
Nature/Interprtative centers	28.6	37.2	26.0	27.3	29.6	23.2
Wildlife/nature observation areas	24.1	33.3	23.3	24.7	19.7	19.5
Natural park areas/open spaces	17.8	26.9	20.5	9.1	15.5	17.1
Playgrounds	15.5	21.8	15.1	13.0	15.5	12.2
Picnic shelters	14.4	15.4	11.0	14.3	11.3	19.5
Picnic grounds	10.2	11.5	4.1	9.1	11.3	14.6
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	44.6	47.4	50.7	51.9	45.1	29.3
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	44.1	56.4	54.8	39.0	35.2	35.4
Mountain bike trails	38.8	56.4	42.5	36.4	33.8	25.6
Unpaved trails for walking, hiking, biking	36.2	47.4	43.8	35.1	29.6	25.6
Horseback trails	32.5	51.3	31.5	27.3	31.0	22.0
Nature/interpretive trails	30.2	46.2	26.0	31.2	28.2	19.5
Cross-country ski trails	27.0	44.9	20.5	24.7	23.9	20.7
Snowmobile trails	16.3	17.9	12.3	16.9	15.5	18.3
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	28.1	38.5	31.5	26.0	29.6	15.9
Camper cabins	27.6	29.5	28.8	32.5	26.8	20.7
Dispersed camping sites	22.8	24.4	20.5	27.3	22.5	19.5
Primitive campgrounds	21.8	25.6	24.7	19.5	26.8	13.4
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	33.3	38.5	34.2	37.7	23.9	31.7
Hunter walking trails	26.8	28.2	26.0	29.9	16.9	31.7
Big game hunting areas	23.6	23.1	23.3	20.8	21.1	29.3
Small game hunting areas	20.2	20.5	17.8	14.3	18.3	29.3
Waterfowl hunting areas	19.7	19.2	15.1	15.6	18.3	29.3

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by income is fairly good for incomes less than \$40,000—<\$30,000 = 0.949, \$30,000-\$34,999 = 0.818, \$35,000-\$39,999 = 0.832, \$40,000-\$49,999 = 0.551, \$50,000+ = 0.668. As with the correlation among income groups for facilities needed now, the correlation among income groups was better at the lower income levels (Table 30). There was less correlation among income groups when facilities needed within five years was added to facilities needed now.

Table 30  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by Cities By Income

Income	\$30,000-\$34,000	\$35,000-\$39,999	\$40,000-\$49,999	\$50,000+
<\$30,000	0.826	0.848	0.615	0.288
\$30,000-\$34,000		0.861	0.617	0.283
\$35,000-\$39,999			0.593	0.314
\$40,000-\$49,999				0.678

There was some commonality among income groups in the higher ranked facilities. There was less commonality among income groups in the lower ranked facilities (Table 31).

There was fairly good agreement in the higher and lower ranked facilities when looked at by facility category (Table 32).



Table 31  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Income  
(percent indicating need)

Facility	Total	< \$30,000	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
Paved trails for walking, hiking, skating, biking	59.2	59.8	62.1	62.2	61.3	51.1
Soccer fields	56.1	54.0	41.4	48.8	66.7	70.5
Unpaved trails for walking, hiking, biking	48.4	57.5	46.0	45.1	52.0	42.0
Skateboard parks	48.2	56.3	37.9	46.3	53.3	47.7
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	59.8	49.4	42.7	44.0	37.5
Dog parks	46.3	44.8	40.2	36.6	56.0	54.5
Outdoor swimming pools	45.1	56.3	35.6	45.1	38.7	48.9
Mountain bike trails	44.6	60.9	40.2	43.9	45.3	33.0
Nature/interpretive trails	41.1	55.2	28.7	36.6	45.3	39.8
Ice rinks	40.6	49.4	34.5	37.8	36.0	44.3
Modern campgrounds with electric hookups	39.9	47.1	43.7	42.7	45.3	21.6
Cross-country ski trails	39.1	52.9	36.8	35.4	34.7	35.2
Horseback trails	37.0	56.3	31.0	32.9	34.7	29.5
Nature/Interprtative centers	36.0	46.0	27.6	35.4	37.3	34.1
Picnic shelters	34.8	34.5	29.9	29.3	38.7	42.0
Volleyball courts	33.7	42.5	29.9	23.2	37.3	35.2
Accessible hunting blinds, stands, areas for people with disabilities	33.4	40.2	33.3	36.6	26.7	29.5
Snow boarding areas	33.2	48.3	34.5	32.9	33.3	17.0
Playgrounds	32.9	33.3	33.3	31.7	36.0	30.7
Camper cabins	32.7	39.1	34.5	32.9	37.3	20.5
Archery ranges	32.5	44.8	32.2	29.3	33.3	22.7
Primitive campgrounds	32.5	35.6	34.5	35.4	37.3	20.5
Baseball fields	31.7	18.4	28.7	14.6	38.7	58.0
Fishing piers	31.7	32.2	27.6	32.9	34.7	31.8
Wildlife/nature observation areas	31.7	36.8	26.4	30.5	34.7	30.7
Downhill ski areas	31.3	44.8	34.5	30.5	28.0	18.2
Basketball courts	31.0	32.2	21.8	24.4	40.0	37.5
Hunter walking trails	30.8	33.3	31.0	29.3	28.0	31.8
Natural park areas/open spaces	30.5	35.6	23.0	23.2	36.0	35.2
Softball fields	30.3	21.8	21.8	17.1	41.3	50.0
Sledding hills	29.8	41.4	31.0	25.6	32.0	19.3
Marinas	28.4	31.0	32.2	28.0	26.7	23.9
Swimming beaches	28.2	32.2	23.0	31.7	29.3	25.0
Dispersed camping sites	28.2	28.7	28.7	30.5	33.3	20.5
Tennis courts	27.7	32.2	25.3	19.5	38.7	23.9
Football fields	27.2	24.1	16.1	15.9	36.0	44.3
Big game hunting areas	27.2	26.4	26.4	26.8	26.7	29.5
Small game hunting areas	27.2	27.6	25.3	25.6	25.3	31.8
Rifle-pistol ranges	27.0	34.5	23.0	23.2	30.7	23.9
Picnic grounds	26.7	23.0	20.7	25.6	30.7	34.1
Snowmobile trails	26.5	26.4	24.1	24.4	25.3	31.8
Waterfowl hunting areas	25.8	29.9	23.0	20.7	22.7	31.8
Running tracks	23.2	36.8	21.8	24.4	21.3	11.4
Boat launching ramps	22.0	20.7	18.4	14.6	25.3	30.7
Shore fishing/ice fishing areas	17.7	18.4	16.1	14.6	20.0	19.3
Golf courses	15.0	16.1	10.3	20.7	14.7	13.6

Table 32  
Facilities Needed Now Plus Facilities Needed Within Five Years by Cities by Category by Income  
(percent indicating need)

Facility	Total	< \$30,000	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	56.1	54.0	41.4	48.8	66.7	70.5
Skateboard parks	48.2	56.3	37.9	46.3	53.3	47.7
Ice rinks	40.6	49.4	34.5	37.8	36.0	44.3
Volleyball courts	33.7	42.5	29.9	23.2	37.3	35.2
Snow boarding areas	33.2	48.3	34.5	32.9	33.3	17.0
Archery ranges	32.5	44.8	32.2	29.3	33.3	22.7
Baseball fields	31.7	18.4	28.7	14.6	38.7	58.0
Downhill ski areas	31.3	44.8	34.5	30.5	28.0	18.2
Basketball courts	31.0	32.2	21.8	24.4	40.0	37.5
Softball fields	30.3	21.8	21.8	17.1	41.3	50.0
Sledding hills	29.8	41.4	31.0	25.6	32.0	19.3
Tennis courts	27.7	32.2	25.3	19.5	38.7	23.9
Football fields	27.2	24.1	16.1	15.9	36.0	44.3
Rifle-pistol ranges	27.0	34.5	23.0	23.2	30.7	23.9
Running tracks	23.2	36.8	21.8	24.4	21.3	11.4
Golf courses	15.0	16.1	10.3	20.7	14.7	13.6
<b>Water-based Facilities</b>						
Outdoor swimming pools	45.1	56.3	35.6	45.1	38.7	48.9
Fishing piers	31.7	32.2	27.6	32.9	34.7	31.8
Marinas	28.4	31.0	32.2	28.0	26.7	23.9
Swimming beaches	28.2	32.2	23.0	31.7	29.3	25.0
Boat launching ramps	22.0	20.7	18.4	14.6	25.3	30.7
Shore fishing/ice fishing areas	17.7	18.4	16.1	14.6	20.0	19.3
<b>Day Use Facilities</b>						
Dog parks	46.3	44.8	40.2	36.6	56.0	54.5
Nature/Interprtative centers	36.0	46.0	27.6	35.4	37.3	34.1
Picnic shelters	34.8	34.5	29.9	29.3	38.7	42.0
Playgrounds	32.9	33.3	33.3	31.7	36.0	30.7
Wildlife/nature observation areas	31.7	36.8	26.4	30.5	34.7	30.7
Natural park areas/open spaces	30.5	35.6	23.0	23.2	36.0	35.2
Picnic grounds	26.7	23.0	20.7	25.6	30.7	34.1
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	59.2	59.8	62.1	62.2	61.3	51.1
Unpaved trails for walking, hiking, biking	48.4	57.5	46.0	45.1	52.0	42.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	46.8	59.8	49.4	42.7	44.0	37.5
Mountain bike trails	44.6	60.9	40.2	43.9	45.3	33.0
Nature/interpretive trails	41.1	55.2	28.7	36.6	45.3	39.8
Cross-country ski trails	39.1	52.9	36.8	35.4	34.7	35.2
Horseback trails	37.0	56.3	31.0	32.9	34.7	29.5
Snowmobile trails	26.5	26.4	24.1	24.4	25.3	31.8
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	39.9	47.1	43.7	42.7	45.3	21.6
Camper cabins	32.7	39.1	34.5	32.9	37.3	20.5
Primitive campgrounds	32.5	35.6	34.5	35.4	37.3	20.5
Dispersed camping sites	28.2	28.7	28.7	30.5	33.3	20.5
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	33.4	40.2	33.3	36.6	26.7	29.5
Hunter walking trails	30.8	33.3	31.0	29.3	28.0	31.8
Big game hunting areas	27.2	26.4	26.4	26.8	26.7	29.5
Small game hunting areas	27.2	27.6	25.3	25.6	25.3	31.8
Waterfowl hunting areas	25.8	29.9	23.0	20.7	22.7	31.8

### Analysis by Whether Facility is Provided

The correlations were fairly high when facilities provided by cities were looked at by region (0.8 or higher) (Table 33), density change (0.9 or higher) (Table 35), population (most 0.8 or higher) (Table 37), and income (0.8 or higher) (Table 39). The one exception was a correlation of 0.580 between cities with less than 5000 residents and cities with over 100,000 residents. For both population and income, correlations decreased as the categories became further apart.

Some facilities are provided by most cities (e.g. playgrounds, picnic shelters, picnic grounds, softball fields). One-third of the facilities (15 of 46) are provided by fewer than 10 percent of the cities (e.g. 4 of the 5 hunting facilities; dog parks; motorized, off-highway vehicle trails (ATV, 4X4, motorcycle); mountain bike trails). These lesser-provided facilities are some of the more desired facilities. Tables of facilities provided by region (Table 34), density change (Table 36), population (Table 38) and income (Table 40) follow.

In general, cities that don't provide a facility are more likely to indicate a current need for that facility (Table 41). This was true for 41 of the 46 facilities (89 percent) measured. The five exceptions—baseball fields; dog parks; modern campgrounds with electric hookups; waterfowl hunting areas; accessible hunting blinds, stands, areas for people with disabilities—were fairly close in the percent of cities indicating a current need for the facility.

When looking at facilities needed now plus facilities needed within the next five years, the same trend occurs with 33 of the 46 facilities (72 percent) being requested more by cities that do not provide the facility than cities that provide the facility (Table 42). The 13 exceptions include the five mentioned above plus softball fields, soccer fields, boat launching ramps, marinas, snowmobile trails, camper cabins, big game hunting areas, and small game hunting areas. Again the differences were slight except for soccer fields (67 % vs 50%, provide vs don't provide), dog parks (75% vs 46%, provide vs don't provide), and hunter walking trails (50% vs 31%, provide vs don't provide).

**Table 33**  
Correlation Coefficients of Facilities Provided by Cities by Region

Region	Northeast	South	Central	Metro
Northwest	0.911	0.959	0.928	0.802
Northeast		0.883	0.912	0.829
South			0.935	0.848
Central				0.896

**Table 34**  
Facilities Provided by Cities by Region  
(percent providing facility)

Facility	Total	Northwest	Northeast	South	Central	Metro
Playgrounds	94.5	89.8	93.1	96.8	96.6	93.9
Picnic shelters	91.5	94.3	84.5	96.2	96.6	82.6
Picnic grounds	89.1	90.9	84.5	90.3	96.6	84.3
Softball fields	84.6	80.7	81.0	88.2	81.4	85.2
Basketball courts	77.1	63.6	62.1	84.4	72.9	85.2
Baseball fields	74.9	62.5	70.7	73.7	71.2	90.4
Tennis courts	66.4	59.1	51.7	65.6	64.4	81.7
Ice rinks	62.3	56.8	75.9	50.0	71.2	74.8
Volleyball courts	59.5	48.9	39.7	67.2	64.4	62.6
Paved trails for walking, hiking, skating, biking	50.8	30.7	60.3	38.7	62.7	74.8
Shore fishing/ice fishing areas	43.9	45.5	46.6	33.3	45.8	57.4
Football fields	40.1	36.4	29.3	40.3	30.5	53.0
Natural park areas/open spaces	37.5	28.4	37.9	26.3	47.5	57.4
Boat launching ramps	36.4	34.1	56.9	26.3	40.7	41.7
Unpaved trails for walking, hiking, biking	35.4	18.2	44.8	25.8	39.0	57.4
Soccer fields	33.8	14.8	29.3	22.6	27.1	72.2
Fishing piers	33.8	36.4	46.6	21.0	27.1	49.6
Sledding hills	28.3	28.4	29.3	17.2	30.5	44.3
Snowmobile trails	28.1	33.0	43.1	26.9	33.9	15.7
Golf courses	26.5	23.9	29.3	24.7	27.1	29.6
Swimming beaches	26.5	27.3	41.4	15.6	25.4	36.5
Outdoor swimming pools	23.1	17.0	5.2	36.6	13.6	20.0
Modern campgrounds with electric hookups	22.7	37.5	37.9	26.9	11.9	2.6
Skateboard parks	22.5	14.8	25.9	14.5	20.3	40.9
Running tracks	20.2	17.0	17.2	18.3	22.0	26.1
Wildlife/nature observation areas	20.0	13.6	17.2	12.9	22.0	36.5
Primitive campgrounds	17.8	31.8	29.3	16.7	15.3	4.3
Cross-country ski trails	16.6	13.6	24.1	12.4	8.5	26.1
Nature/interpretive trails	12.8	10.2	12.1	7.5	8.5	26.1
Nature/Interprtative centers	10.1	5.7	17.2	7.0	5.1	17.4
Small game hunting areas	10.1	9.1	15.5	11.8	6.8	7.0
Archery ranges	9.3	6.8	6.9	8.1	1.7	18.3
Waterfowl hunting areas	9.1	9.1	10.3	9.7	10.2	7.0
Rifle-pistol ranges	7.9	9.1	5.2	11.3	6.8	3.5
Big game hunting areas	7.7	8.0	13.8	7.5	5.1	6.1
Marinas	5.3	1.1	6.9	2.7	5.1	12.2
Horseback trails	5.3	5.7	3.4	2.2	5.1	11.3
Dispersed camping sites	5.3	12.5	5.2	4.8	5.1	0.9
Mountain bike trails	5.1	3.4	5.2	3.2	6.8	8.7
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	4.7	5.7	19.0	2.2	5.1	0.9
Snow boarding areas	3.8	2.3	6.9	2.7	6.8	3.5
Dog parks	3.6	1.1	1.7	1.1	3.4	10.4
Hunter walking trails	3.0	2.3	10.3	2.7	0.0	1.7
Downhill ski areas	2.8	2.3	5.2	1.1	6.8	2.6
Camper cabins	1.8	2.3	3.4	1.6	1.7	0.9
Accessible hunting blinds, stands, areas for people with disabilities	1.0	2.3	0.0	1.1	0.0	0.9

Table 35  
Correlation Coefficients of Facilities Provided by Cities by Density Change

Density change	0.1 - 20.0	20.1 - 50.0	50.1 +
Negative - 0.0	0.951	0.955	0.953
0.1 - 20.0		0.938	0.904
20.1 - 50.0			0.957

Table 36  
Facilities Provided by Cities by Density Change  
(percent providing facility)

Facility	total	neg - 0.0	0.1 - 20.0	20.1 - 50.0	50.1 - high
Playgrounds	94.5	94.6	83.6	94.7	96.9
Picnic shelters	91.5	89.3	87.3	94.7	93.0
Picnic grounds	89.1	87.2	90.9	85.3	91.2
Softball fields	84.6	81.2	80.0	84.0	88.1
Basketball courts	77.1	75.2	69.1	76.0	80.6
Baseball fields	74.9	69.1	70.9	68.0	81.9
Tennis courts	66.4	69.8	52.7	61.3	69.2
Ice rinks	62.3	57.0	49.1	54.7	71.4
Volleyball courts	59.5	62.4	29.1	58.7	65.2
Paved trails	50.8	36.9	43.6	46.7	63.0
Shore/ice fishing areas	43.9	37.6	49.1	37.3	48.9
Football fields	40.1	36.9	40.0	38.7	42.7
Natural park/open space	37.5	30.2	32.7	34.7	44.5
Boat launch ramps	36.4	30.9	43.6	38.7	37.4
Unpaved trails	35.4	33.6	29.1	32.0	39.2
Soccer fields	33.8	22.1	23.6	26.7	46.3
Fishing piers	33.8	28.9	36.4	28.0	38.3
Sledding hills	28.3	28.9	20.0	21.3	32.2
Snowmobile trails	28.1	26.2	32.7	29.3	27.8
Golf courses	26.5	20.1	29.1	32.0	28.2
Swimming beaches	26.5	24.8	25.5	24.0	28.6
Outdoor swimming pools	23.1	20.1	18.2	22.7	26.4
Modern campgrounds	22.7	29.5	29.1	18.7	18.1
Skateboard parks	22.5	14.8	16.4	12.0	32.6
Running tracks	20.2	14.1	18.2	17.3	25.6
Wildlife/nature observation	20.0	19.5	18.2	18.7	21.1
Primitive campgrounds	17.8	23.5	20.0	20.0	12.8
Cross-country ski trails	16.6	10.7	14.5	22.7	18.9
Nature/interpretive trails	12.8	12.1	10.9	14.7	13.2
Nature/interpretive centers	10.1	6.7	10.9	14.7	10.6
Small game hunting areas	10.1	10.7	21.8	12.0	6.2
Archery ranges	9.3	6.7	5.5	5.3	13.2
Waterfowl hunting areas	9.1	6.7	20.0	12.0	7.0
Rifle-pistol ranges	7.9	6.7	5.5	13.3	7.5
Big game hunting areas	7.7	6.7	18.2	10.7	4.8
Marinas	5.3	4.0	7.3	6.7	5.3
Horseback trails	5.3	2.0	7.3	12.0	4.8
Dispersed camp sites	5.3	5.4	5.5	6.7	4.8
Mountain bike trails	5.1	2.7	1.8	6.7	7.0
Motorized, OHV trails	4.7	6.7	7.3	4.0	3.1
Snow boarding areas	3.8	5.4	5.5	1.3	3.1
Dog parks	3.6	2.7	1.8	4.0	4.4
Hunter walking trails	3.0	2.7	10.9	2.7	1.3
Downhill ski areas	2.8	2.7	3.6	5.3	1.8
Camper cabins	1.8	0.7	3.6	1.3	2.2
Accessible hunting facilities	1.0	2.0	0.0	1.3	0.4

**Table 37**  
Correlation Coefficients of Facilities Provided by Cities by Population

Population	5,000-19,999	20,000-49,999	50,000-99,999	100,000+
<5000	0.907	0.823	0.760	0.580
5,000-19,999		0.955	0.921	0.769
20,000-49,999			0.950	0.819
50,000-99,999				0.862

**Table 38**  
Facilities Provided by Cities by Population  
(percent providing facility)

Facility	Total	< 5,000	5,000 - 19,999	20,000 - 49,999	50,000 - 99,999	100,000 +
Playgrounds	94.5	92.9	100.0	100.0	100.0	100.0
Picnic shelters	91.5	89.8	95.7	100.0	100.0	100.0
Picnic grounds	89.1	87.3	95.7	96.6	91.7	100.0
Softball fields	84.6	81.0	95.7	100.0	100.0	100.0
Basketball courts	77.1	71.8	92.8	100.0	100.0	100.0
Baseball fields	74.9	68.0	98.6	100.0	100.0	100.0
Tennis courts	66.4	58.6	91.3	96.6	100.0	100.0
Ice rinks	62.3	54.1	85.5	100.0	100.0	100.0
Volleyball courts	59.5	52.8	73.9	96.6	100.0	100.0
Paved trails for walking, hiking, skating, biking	50.8	39.3	87.0	96.6	100.0	100.0
Shore fishing/ice fishing areas	43.9	34.8	73.9	72.4	91.7	100.0
Football fields	40.1	34.3	44.9	82.8	91.7	100.0
Natural park areas/open spaces	37.5	27.2	65.2	89.7	83.3	100.0
Boat launching ramps	36.4	30.5	56.5	48.3	75.0	100.0
Unpaved trails for walking, hiking, biking	35.4	25.6	65.2	72.4	83.3	100.0
Soccer fields	33.8	17.5	85.5	100.0	100.0	100.0
Fishing piers	33.8	24.9	53.6	79.3	91.7	100.0
Sledding hills	28.3	18.5	52.2	79.3	75.0	100.0
Snowmobile trails	28.1	29.2	33.3	10.3	8.3	0.0
Golf courses	26.5	20.8	42.0	48.3	58.3	100.0
Swimming beaches	26.5	22.1	42.0	27.6	66.7	100.0
Outdoor swimming pools	23.1	18.0	34.8	51.7	41.7	100.0
Modern campgrounds with electric hookups	22.7	24.6	20.3	10.3	8.3	0.0
Skateboard parks	22.5	10.7	58.0	69.0	83.3	100.0
Running tracks	20.2	13.5	36.2	55.2	58.3	50.0
Wildlife/nature observation areas	20.0	11.7	36.2	65.5	75.0	100.0
Primitive campgrounds	17.8	19.5	13.0	6.9	16.7	0.0
Cross-country ski trails	16.6	9.4	33.3	48.3	66.7	100.0
Nature/interpretive trails	12.8	6.3	21.7	44.8	83.3	100.0
Nature/Interpretive centers	10.1	5.8	17.4	31.0	41.7	100.0
Small game hunting areas	10.1	11.2	5.8	6.9	8.3	0.0
Archery ranges	9.3	4.1	15.9	37.9	66.7	50.0
Waterfowl hunting areas	9.1	9.6	7.2	6.9	8.3	0.0
Rifle-pistol ranges	7.9	7.6	10.1	6.9	8.3	0.0
Big game hunting areas	7.7	8.4	4.3	6.9	8.3	0.0
Marinas	5.3	4.3	5.8	6.9	25.0	50.0
Horseback trails	5.3	4.1	8.7	10.3	16.7	0.0
Dispersed camping sites	5.3	5.3	5.8	3.4	8.3	0.0
Mountain bike trails	5.1	2.3	10.1	13.8	41.7	50.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	4.7	6.1	0.0	0.0	0.0	0.0
Snow boarding areas	3.8	3.0	4.3	0.0	25.0	50.0
Dog parks	3.6	1.0	2.9	17.2	41.7	100.0
Hunter walking trails	3.0	3.0	2.9	3.4	0.0	0.0
Downhill ski areas	2.8	2.3	2.9	0.0	16.7	50.0
Camper cabins	1.8	2.0	1.4	0.0	0.0	0.0
Accessible hunting blinds, stands, areas for people with disabilities	1.0	1.0	1.4	0.0	0.0	0.0

**Table 39**  
Correlation Coefficients of Facilities Provided by Cities by Income

Income	\$30,000-\$34,000	\$35,000-\$39,999	\$40,000-\$49,999	\$50,000+
<\$30,000	0.966	0.935	0.865	0.817
\$30,000-\$34,000		0.960	0.911	0.827
\$35,000-\$39,999			0.934	0.872
\$40,000-\$49,999				0.934

**Table 40**  
Facilities Provided by Cities by Income  
(percent providing facility)

Facility	Total	< \$30,000	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
Playgrounds	94.5	93.8	94.2	96.8	96.7	91.4
Picnic shelters	91.5	94.6	94.2	95.7	91.3	81.9
Picnic grounds	89.1	90.2	91.3	92.6	88.0	83.8
Softball fields	84.6	75.9	87.4	88.3	89.1	83.8
Basketball courts	77.1	59.8	82.5	85.1	79.3	81.0
Baseball fields	74.9	63.4	71.8	78.7	77.2	84.8
Tennis courts	66.4	58.0	66.0	72.3	59.8	76.2
Ice rinks	62.3	45.5	59.2	63.8	72.8	72.4
Volleyball courts	59.5	46.4	61.2	63.8	70.7	58.1
Paved trails for walking, hiking, skating, biking	50.8	31.3	44.7	42.6	56.5	80.0
Shore fishing/ice fishing areas	43.9	42.9	38.8	39.4	35.9	61.0
Football fields	40.1	38.4	41.7	37.2	40.2	42.9
Natural park areas/open spaces	37.5	23.2	32.0	28.7	47.8	57.1
Boat launching ramps	36.4	32.1	38.8	34.0	35.9	41.0
Unpaved trails for walking, hiking, biking	35.4	22.3	24.3	33.0	38.0	60.0
Soccer fields	33.8	12.5	24.3	21.3	45.7	66.7
Fishing piers	33.8	33.9	32.0	25.5	26.1	49.5
Sledding hills	28.3	17.9	22.3	26.6	31.5	43.8
Snowmobile trails	28.1	32.1	30.1	33.0	25.0	20.0
Golf courses	26.5	19.6	31.1	27.7	22.8	31.4
Swimming beaches	26.5	31.3	24.3	20.2	19.6	35.2
Outdoor swimming pools	23.1	12.5	31.1	27.7	34.8	12.4
Modern campgrounds with electric hookups	22.7	34.8	35.0	28.7	9.8	3.8
Skateboard parks	22.5	13.4	20.4	12.8	21.7	43.8
Running tracks	20.2	8.9	22.3	24.5	26.1	21.0
Wildlife/nature observation areas	20.0	8.9	16.5	13.8	28.3	33.3
Primitive campgrounds	17.8	25.9	30.1	19.1	4.3	7.6
Cross-country ski trails	16.6	10.7	14.6	12.8	20.7	24.8
Nature/interpretive trails	12.8	6.3	7.8	12.8	16.3	21.9
Nature/Interprtative centers	10.1	8.0	6.8	8.5	14.1	13.3
Small game hunting areas	10.1	9.8	12.6	9.6	10.9	7.6
Archery ranges	9.3	3.6	7.8	10.6	9.8	15.2
Waterfowl hunting areas	9.1	9.8	10.7	8.5	7.6	8.6
Rifle-pistol ranges	7.9	8.9	12.6	6.4	8.7	2.9
Big game hunting areas	7.7	8.0	9.7	7.4	7.6	5.7
Marinas	5.3	1.8	3.9	5.3	4.3	11.4
Horseback trails	5.3	5.4	4.9	2.1	1.1	12.4
Dispersed camping sites	5.3	5.4	11.7	4.3	5.4	0.0
Mountain bike trails	5.1	2.7	3.9	4.3	6.5	8.6
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	4.7	9.8	4.9	6.4	1.1	1.0
Snow boarding areas	3.8	0.9	3.9	9.6	2.2	2.9
Dog parks	3.6	1.8	1.0	2.1	4.3	8.6
Hunter walking trails	3.0	2.7	3.9	3.2	3.3	1.9
Downhill ski areas	2.8	0.9	3.9	6.4	1.1	1.9
Camper cabins	1.8	0.9	4.9	1.1	2.2	0.0
Accessible hunting blinds, stands, areas for people with disabilities	1.0	0.9	2.9	0.0	0.0	1.0

Table 41  
Facilities Needed Now by Cities  
by Facility Provided by Cities  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Provide</b>	<b>Don't provide</b>
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	40.8	15.8	42.0
Paved trails for walking, hiking, skating, biking	40.2	29.9	52.6
Soccer fields	38.9	38.3	39.3
Skateboard parks	38.0	21.0	43.4
Dog parks	36.6	37.5	36.6
Mountain bike trails	35.7	16.7	36.8
Unpaved trails for walking, hiking, biking	32.9	21.7	39.7
Accessible hunting blinds, stands, areas for people with disabilities	30.5	0.0	30.8
Outdoor swimming pools	30.4	14.0	35.7
Horseback trails	30.2	7.7	31.8
Snow boarding areas	29.6	11.8	30.4
Downhill ski areas	29.4	0.0	30.3
Nature/interpretive trails	28.0	18.2	29.6
Archery ranges	27.7	11.9	29.5
Nature/Interprtative centers	26.9	14.3	28.4
Modern campgrounds with electric hookups	25.5	27.4	25.0
Marinas	25.3	14.3	25.9
Camper cabins	25.3	0.0	25.7
Cross-country ski trails	24.9	9.3	28.4
Hunter walking trails	24.9	33.3	24.6
Sledding hills	23.6	7.1	31.0
Wildlife/nature observation areas	22.5	16.7	24.0
Big game hunting areas	22.3	20.0	22.5
Ice rinks	22.2	17.7	30.6
Volleyball courts	21.9	11.4	37.1
Rifle-pistol ranges	21.7	3.1	23.2
Fishing piers	21.2	9.9	27.3
Dispersed camping sites	21.2	10.5	21.7
Primitive campgrounds	20.2	14.7	21.3
Swimming beaches	19.7	9.6	23.5
Small game hunting areas	19.1	15.6	19.6
Waterfowl hunting areas	18.7	22.5	18.3
Football fields	18.5	13.2	22.1
Running tracks	17.8	6.8	20.7
Baseball fields	16.4	16.4	16.3
Natural park areas/open spaces	16.4	9.3	20.9
Basketball courts	16.3	11.8	31.9
Tennis courts	15.8	8.9	30.5
Snowmobile trails	15.2	10.4	17.1
Softball fields	14.5	14.3	15.8
Playgrounds	14.3	13.8	23.8
Boat launching ramps	13.9	12.3	14.9
Picnic shelters	13.2	12.2	26.7
Shore fishing/ice fishing areas	10.8	6.6	14.3
Picnic grounds	9.4	8.3	19.5
Golf courses	9.0	4.3	10.9



Table 42  
 Facilities Needed Now Plus Facilities Needed Within Five Years by Cities  
 by Facilities Provided by Cities  
 (percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Provide</b>	<b>Don't provide</b>
Paved trails for walking, hiking, skating, biking	58.6	54.1	64.1
Soccer fields	56.4	67.2	50.5
Unpaved trails for walking, hiking, biking	48.4	41.4	52.7
Skateboard parks	48.3	41.0	50.6
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	47.6	36.9	48.1
Dog parks	46.7	75.0	45.6
Outdoor swimming pools	45.6	43.0	46.5
Mountain bike trails	45.1	25.0	46.3
Nature/interpretive trails	41.9	32.7	43.4
Ice rinks	41.5	40.3	43.8
Modern campgrounds with electric hookups	39.8	40.0	39.8
Cross-country ski trails	39.7	33.3	41.1
Horseback trails	37.8	15.4	39.4
Nature/Interprative centers	37.3	23.8	38.9
Picnic shelters	35.1	34.2	46.7
Volleyball courts	33.9	25.7	45.9
Accessible hunting blinds, stands, areas for people with disabilities	33.6	0.0	33.9
Snow boarding areas	33.5	11.8	34.4
Playgrounds	33.4	33.2	38.1
Archery ranges	33.3	14.3	35.5
Primitive campgrounds	33.1	27.9	34.2
Camper cabins	33.0	33.3	33.0
Fishing piers	32.8	26.2	36.4
Baseball fields	32.5	32.8	31.6
Wildlife/nature observation areas	32.5	27.4	33.8
Downhill ski areas	31.8	0.0	32.8
Basketball courts	31.6	28.3	42.9
Hunter walking trails	31.5	50.0	30.9
Natural park areas/open spaces	30.9	28.6	32.4
Softball fields	30.7	31.2	28.1
Sledding hills	30.4	18.9	35.6
Marinas	29.8	33.3	29.6
Swimming beaches	29.0	18.4	33.1
Dispersed camping sites	28.7	15.8	29.4
Small game hunting areas	28.3	33.4	27.7
Tennis courts	28.2	22.1	41.2
Big game hunting areas	28.2	34.3	27.6
Football fields	27.7	23.4	30.7
Rifle-pistol ranges	27.5	3.1	29.5
Snowmobile trails	27.2	27.8	27.0
Picnic grounds	27.0	26.5	31.7
Waterfowl hunting areas	26.9	32.5	26.3
Running tracks	23.6	10.2	27.2
Boat launching ramps	22.8	23.9	22.1
Shore fishing/ice fishing areas	18.6	17.1	19.8
Golf courses	15.4	9.5	17.7

## Facility Needs of Counties

The most appropriate and knowledgeable county officials were asked about the “adequacy of facility supply to county residents”. It is important to note that respondents were *not* only asked to rate adequacy for facilities they currently provide. Rather, they were asked to think broadly of the facility needs in their local communities, whether or not they are specifically involved with the provision of those facilities.

To examine how facility needs varied across the state and by standard demographic breakdowns, county data were analyzed by region, population density change 1990 to 2000, 2000 population, and 2000 median household income. Care must be taken when looking at the county data by demographic breakdowns. Some of the breakdowns have only a few counties. This resulted in numerous ties in the facility rankings.

## Analysis by Region

Regions used for this analysis are the four DNR regions with the Central DNR region broken into the seven county Twin Cities metropolitan region (Metro) and the balance as the Central region (Figure 1, page 26). The Metro region contains half of the Minnesota population and is covered by the regional governmental agency (Metropolitan Council) that has outdoor recreation functions.

When looked at by region there was little commonality among the regions (Table 43). This differs from the results for cities which showed some commonality among the five regions.

Table 43  
Correlation Coefficients of Facilities Needed Now by Counties  
by Region

Region	Northeast	South	Central	Metro
Northwest	0.517	0.293	0.477	0.272
Northeast		0.122	0.153	0.417
South			0.602	0.394
Central				0.376

There was some commonality among regions in the higher and lower ranked facilities (Table 44). All five regions ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) and paved trails for walking, hiking, skating, biking in their top five facilities. Higher ranked facilities for three or more regions also included: mountain bike trails—Northeast, South, Central; horseback trails—Northwest, South, Central; and skateboard parks—Northwest, Northeast, Metro.

Facilities ranked lower by four regions included: running tracks—Northeast, South, Central, Metro; football fields—Northwest, Northeast, Central, Metro; golf courses—Northwest, North East, Central; and tennis courts—Northwest, Northeast, Central, Metro.

In general the Northeast saw the smallest need for facilities. When looking at facilities needed now, none of the five reporting Northeast counties saw a current need for 27 of the facilities. This compares with the seven Metro counties that saw no current need for 18 of the facilities and the seven Central counties that saw no current need for 10 of the facilities. At least some of the 18 counties in the Northwest and the 27 counties in the South saw a current need for each facility.

As with the overall ranking, there was little commonality among regions when looking at facilities by facility category (Table 45).

Table 44  
Facilities Needed Now by Counties by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	61.1	60.0	56.5	85.7	42.9
Paved trails for walking, hiking, skating, biking	56.7	55.6	40.0	47.8	71.4	85.7
Mountain bike trails	46.7	27.8	60.0	56.5	71.4	28.6
Nature/interpretive trails	40.0	44.4	20.0	39.1	57.1	28.6
Camper cabins	40.0	33.3	20.0	47.8	28.6	57.1
Unpaved trails for walking, hiking, biking	38.3	50.0	20.0	34.8	42.9	28.6
Horseback trails	38.3	38.9	0.0	47.8	71.4	0.0
Modern campgrounds with electric hookups	38.3	33.3	60.0	39.1	28.6	42.9
Fishing piers	35.0	33.3	0.0	34.8	42.9	57.1
Skateboard parks	28.3	38.9	60.0	13.0	14.3	42.9
Accessible hunting blinds, stands, areas for people with disabilities	28.3	33.3	20.0	30.4	28.6	14.3
Dog parks	26.7	16.7	0.0	39.1	14.3	42.9
Dispersed camping sites	25.0	5.6	0.0	39.1	42.9	28.6
Shore fishing/ice fishing areas	23.3	11.1	0.0	26.1	57.1	28.6
Nature/Interprtative centers	23.3	27.8	0.0	26.1	28.6	14.3
Cross-country ski trails	23.3	27.8	0.0	34.8	14.3	0.0
Outdoor swimming pools	21.7	33.3	0.0	13.0	42.9	14.3
Swimming beaches	21.7	22.2	0.0	17.4	71.4	0.0
Playgrounds	21.7	11.1	20.0	34.8	14.3	14.3
Primitive campgrounds	21.7	5.6	0.0	39.1	28.6	14.3
Small game hunting areas	21.7	11.1	0.0	26.1	28.6	42.9
Archery ranges	20.0	27.8	20.0	17.4	28.6	0.0
Boat launching ramps	20.0	11.1	0.0	26.1	28.6	28.6
Picnic shelters	20.0	11.1	0.0	39.1	14.3	0.0
Natural park areas/open spaces	20.0	16.7	20.0	17.4	28.6	28.6
Big game hunting areas	20.0	5.6	0.0	26.1	28.6	42.9
Downhill ski areas	18.3	16.7	40.0	17.4	0.0	28.6
Basketball courts	16.7	16.7	0.0	26.1	14.3	0.0
Volleyball courts	16.7	16.7	0.0	26.1	0.0	14.3
Softball fields	16.7	16.7	20.0	21.7	14.3	0.0
Soccer fields	16.7	27.8	20.0	8.7	14.3	14.3
Snow boarding areas	16.7	16.7	40.0	13.0	0.0	28.6
Sledding hills	16.7	11.1	20.0	13.0	0.0	57.1
Wildlife/nature observation areas	15.0	11.1	20.0	17.4	28.6	0.0
Waterfowl hunting areas	15.0	5.6	0.0	21.7	14.3	28.6
Picnic grounds	13.3	5.6	0.0	26.1	14.3	0.0
Hunter walking trails	13.3	22.2	0.0	17.4	0.0	0.0
Baseball fields	11.7	16.7	0.0	13.0	14.3	0.0
Rifle-pistol ranges	11.7	22.2	0.0	8.7	14.3	0.0
Marinas	11.7	11.1	0.0	17.4	14.3	0.0
Tennis courts	10.0	5.6	0.0	21.7	0.0	0.0
Ice rinks	10.0	16.7	20.0	8.7	0.0	0.0
Golf courses	8.3	5.6	0.0	17.4	0.0	0.0
Snowmobile trails	8.3	5.6	0.0	8.7	14.3	14.3
Football fields	6.7	5.6	0.0	13.0	0.0	0.0
Running tracks	5.0	11.1	0.0	4.3	0.0	0.0

Table 45  
Facilities Needed Now by Counties by Category by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
<b>Outdoor Sport Courts &amp; Fields</b>						
Skateboard parks	28.3	38.9	60.0	13.0	14.3	42.9
Archery ranges	20.0	27.8	20.0	17.4	28.6	0.0
Downhill ski areas	18.3	16.7	40.0	17.4	0.0	28.6
Basketball courts	16.7	16.7	0.0	26.1	14.3	0.0
Volleyball courts	16.7	16.7	0.0	26.1	0.0	14.3
Softball fields	16.7	16.7	20.0	21.7	14.3	0.0
Soccer fields	16.7	27.8	20.0	8.7	14.3	14.3
Snow boarding areas	16.7	16.7	40.0	13.0	0.0	28.6
Sledding hills	16.7	11.1	20.0	13.0	0.0	57.1
Baseball fields	11.7	16.7	0.0	13.0	14.3	0.0
Rifle-pistol ranges	11.7	22.2	0.0	8.7	14.3	0.0
Tennis courts	10.0	5.6	0.0	21.7	0.0	0.0
Ice rinks	10.0	16.7	20.0	8.7	0.0	0.0
Golf courses	8.3	5.6	0.0	17.4	0.0	0.0
Football fields	6.7	5.6	0.0	13.0	0.0	0.0
Running tracks	5.0	11.1	0.0	4.3	0.0	0.0
<b>Water-based Facilities</b>						
Fishing piers	35.0	33.3	0.0	34.8	42.9	57.1
Shore fishing/ice fishing areas	23.3	11.1	0.0	26.1	57.1	28.6
Outdoor swimming pools	21.7	33.3	0.0	13.0	42.9	14.3
Swimming beaches	21.7	22.2	0.0	17.4	71.4	0.0
Boat launching ramps	20.0	11.1	0.0	26.1	28.6	28.6
Marinas	11.7	11.1	0.0	17.4	14.3	0.0
<b>Day Use Facilities</b>						
Dog parks	26.7	16.7	0.0	39.1	14.3	42.9
Nature/Interpretive centers	23.3	27.8	0.0	26.1	28.6	14.3
Playgrounds	21.7	11.1	20.0	34.8	14.3	14.3
Picnic shelters	20.0	11.1	0.0	39.1	14.3	0.0
Natural park areas/open spaces	20.0	16.7	20.0	17.4	28.6	28.6
Wildlife/nature observation areas	15.0	11.1	20.0	17.4	28.6	0.0
Picnic grounds	13.3	5.6	0.0	26.1	14.3	0.0
<b>Trails</b>						
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	61.1	60.0	56.5	85.7	42.9
Paved trails for walking, hiking, skating, biking	56.7	55.6	40.0	47.8	71.4	85.7
Mountain bike trails	46.7	27.8	60.0	56.5	71.4	28.6
Nature/interpretive trails	40.0	44.4	20.0	39.1	57.1	28.6
Unpaved trails for walking, hiking, biking	38.3	50.0	20.0	34.8	42.9	28.6
Horseback trails	38.3	38.9	0.0	47.8	71.4	0.0
Cross-country ski trails	23.3	27.8	0.0	34.8	14.3	0.0
Snowmobile trails	8.3	5.6	0.0	8.7	14.3	14.3
<b>Overnight Facilities</b>						
Camper cabins	40.0	33.3	20.0	47.8	28.6	57.1
Modern campgrounds with electric hookups	38.3	33.3	60.0	39.1	28.6	42.9
Dispersed camping sites	25.0	5.6	0.0	39.1	42.9	28.6
Primitive campgrounds	21.7	5.6	0.0	39.1	28.6	14.3
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	28.3	33.3	20.0	30.4	28.6	14.3
Small game hunting areas	21.7	11.1	0.0	26.1	28.6	42.9
Big game hunting areas	20.0	5.6	0.0	26.1	28.6	42.9
Waterfowl hunting areas	15.0	5.6	0.0	21.7	14.3	28.6
Hunter walking trails	13.3	22.2	0.0	17.4	0.0	0.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by region was only fair, except for the South and Central regions—Northwest = 0.721, Northeast = 0.413, South = 0.890, Central = 0.855, Metro = 0.602. As with facilities needed now, there was little commonality among the regions in ranking facilities needed now plus facilities needed within five years (Table 46).

Table 46  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five years  
by Counties by Region

Region	Northeast	South	Central	Metro
Northwest	0.495	0.508	0.605	0.342
Northeast		0.491	0.419	0.292
South			0.707	0.561
Central				0.510

There was some commonality among regions in the higher and lower ranked facilities (Table 47). Paved trails for walking, hiking, skating, biking was ranked in the top five by all five regions. Other facilities ranked in the top five by four regions included: motorized off-highway vehicle trails (ATV, 4X4, motorcycle) and modern campgrounds with electric hookups. Running tracks and football fields were ranked in the bottom five by all five regions. Other facilities ranked in the bottom five by four regions included golf courses and baseball fields.

When looked at by facility category, there was little agreement among regions in the higher and lower ranked facilities within each facility category (Table 48).

Table 47  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Region  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Northwest</b>	<b>Northeast</b>	<b>South</b>	<b>Central</b>	<b>Metro</b>
Paved trails for walking, hiking, skating, biking	70.3	61.1	66.7	65.4	85.7	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	77.8	66.7	69.2	85.7	42.9
Modern campgrounds with electric hookups	59.4	50.0	66.7	57.7	71.4	71.4
Unpaved trails for walking, hiking, biking	57.8	50.0	50.0	57.7	71.4	71.4
Mountain bike trails	53.1	33.3	66.7	53.8	85.7	57.1
Nature/interpretive trails	53.1	44.4	66.7	50.0	57.1	71.4
Horseback trails	50.0	44.4	50.0	57.7	71.4	14.3
Cross-country ski trails	50.0	61.1	50.0	38.5	71.4	42.9
Fishing piers	46.9	38.9	16.7	42.3	71.4	85.7
Picnic shelters	45.3	22.2	33.3	53.8	71.4	57.1
Natural park areas/open spaces	45.3	33.3	33.3	42.3	71.4	71.4
Dispersed camping sites	45.3	27.8	66.7	46.2	71.4	42.9
Primitive campgrounds	43.8	22.2	50.0	50.0	57.1	57.1
Camper cabins	43.8	44.4	16.7	46.2	42.9	57.1
Playgrounds	42.2	27.8	16.7	53.8	42.9	57.1
Accessible hunting blinds, stands, areas for people with disabilities	40.6	50.0	50.0	34.6	57.1	14.3
Skateboard parks	39.1	55.6	66.7	23.1	28.6	42.9
Swimming beaches	39.1	38.9	50.0	23.1	85.7	42.9
Picnic grounds	39.1	16.7	33.3	42.3	71.4	57.1
Nature/Interpretive centers	39.1	33.3	16.7	38.5	71.4	42.9
Wildlife/nature observation areas	39.1	33.3	16.7	42.3	57.1	42.9
Dog parks	37.5	22.2	16.7	38.5	42.9	85.7
Archery ranges	32.8	27.8	50.0	26.9	28.6	57.1
Shore fishing/ice fishing areas	31.3	16.7	16.7	30.8	85.7	28.6
Big game hunting areas	31.3	33.3	33.3	23.1	42.9	42.9
Boat launching ramps	29.7	27.8	50.0	23.1	42.9	28.6
Snowmobile trails	29.7	38.9	33.3	15.4	42.9	42.9
Small game hunting areas	29.7	22.2	33.3	26.9	42.9	42.9
Basketball courts	28.1	22.2	33.3	30.8	28.6	28.6
Volleyball courts	28.1	22.2	33.3	34.6	0.0	42.9
Outdoor swimming pools	26.6	38.9	0.0	11.5	71.4	28.6
Hunter walking trails	26.6	27.8	50.0	26.9	14.3	14.3
Waterfowl hunting areas	25.0	22.2	33.3	26.9	14.3	28.6
Rifle-pistol ranges	23.4	22.2	33.3	15.4	28.6	42.9
Sledding hills	21.9	22.2	16.7	11.5	14.3	71.4
Tennis courts	20.3	16.7	16.7	26.9	14.3	14.3
Softball fields	20.3	22.2	33.3	19.2	14.3	14.3
Soccer fields	20.3	33.3	16.7	11.5	14.3	28.6
Ice rinks	20.3	22.2	33.3	19.2	14.3	14.3
Downhill ski areas	20.3	16.7	33.3	15.4	14.3	42.9
Snow boarding areas	20.3	16.7	50.0	11.5	14.3	42.9
Marinas	18.8	27.8	16.7	19.2	14.3	0.0
Baseball fields	15.6	22.2	16.7	11.5	14.3	14.3
Golf courses	12.5	11.1	16.7	15.4	0.0	14.3
Football fields	9.4	11.1	0.0	11.5	0.0	14.3
Running tracks	7.8	11.1	0.0	7.7	0.0	14.3

Table 48  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Category by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
<b>Outdoor Sport Courts &amp; Fields</b>						
Skateboard parks	39.1	55.6	66.7	23.1	28.6	42.9
Archery ranges	32.8	27.8	50.0	26.9	28.6	57.1
Basketball courts	28.1	22.2	33.3	30.8	28.6	28.6
Volleyball courts	28.1	22.2	33.3	34.6	0.0	42.9
Rifle-pistol ranges	23.4	22.2	33.3	15.4	28.6	42.9
Sledding hills	21.9	22.2	16.7	11.5	14.3	71.4
Tennis courts	20.3	16.7	16.7	26.9	14.3	14.3
Softball fields	20.3	22.2	33.3	19.2	14.3	14.3
Soccer fields	20.3	33.3	16.7	11.5	14.3	28.6
Ice rinks	20.3	22.2	33.3	19.2	14.3	14.3
Downhill ski areas	20.3	16.7	33.3	15.4	14.3	42.9
Snow boarding areas	20.3	16.7	50.0	11.5	14.3	42.9
Baseball fields	15.6	22.2	16.7	11.5	14.3	14.3
Golf courses	12.5	11.1	16.7	15.4	0.0	14.3
Football fields	9.4	11.1	0.0	11.5	0.0	14.3
Running tracks	7.8	11.1	0.0	7.7	0.0	14.3
<b>Water-based Facilities</b>						
Fishing piers	46.9	38.9	16.7	42.3	71.4	85.7
Swimming beaches	39.1	38.9	50.0	23.1	85.7	42.9
Shore fishing/ice fishing areas	31.3	16.7	16.7	30.8	85.7	28.6
Boat launching ramps	29.7	27.8	50.0	23.1	42.9	28.6
Outdoor swimming pools	26.6	38.9	0.0	11.5	71.4	28.6
Marinas	18.8	27.8	16.7	19.2	14.3	0.0
<b>Day Use Facilities</b>						
Picnic shelters	45.3	22.2	33.3	53.8	71.4	57.1
Natural park areas/open spaces	45.3	33.3	33.3	42.3	71.4	71.4
Playgrounds	42.2	27.8	16.7	53.8	42.9	57.1
Picnic grounds	39.1	16.7	33.3	42.3	71.4	57.1
Nature/Interpretive centers	39.1	33.3	16.7	38.5	71.4	42.9
Wildlife/nature observation areas	39.1	33.3	16.7	42.3	57.1	42.9
Dog parks	37.5	22.2	16.7	38.5	42.9	85.7
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	70.3	61.1	66.7	65.4	85.7	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	77.8	66.7	69.2	85.7	42.9
Unpaved trails for walking, hiking, biking	57.8	50.0	50.0	57.7	71.4	71.4
Mountain bike trails	53.1	33.3	66.7	53.8	85.7	57.1
Nature/interpretive trails	53.1	44.4	66.7	50.0	57.1	71.4
Horseback trails	50.0	44.4	50.0	57.7	71.4	14.3
Cross-country ski trails	50.0	61.1	50.0	38.5	71.4	42.9
Snowmobile trails	29.7	38.9	33.3	15.4	42.9	42.9
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	59.4	50.0	66.7	57.7	71.4	71.4
Dispersed camping sites	45.3	27.8	66.7	46.2	71.4	42.9
Primitive campgrounds	43.8	22.2	50.0	50.0	57.1	57.1
Camper cabins	43.8	44.4	16.7	46.2	42.9	57.1
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	40.6	50.0	50.0	34.6	57.1	14.3
Big game hunting areas	31.3	33.3	33.3	23.1	42.9	42.9
Small game hunting areas	29.7	22.2	33.3	26.9	42.9	42.9
Hunter walking trails	26.6	27.8	50.0	26.9	14.3	14.3
Waterfowl hunting areas	25.0	22.2	33.3	26.9	14.3	28.6

### Analysis by Population Density Change

Density change is the population change from 1990 to 2000 per square mile. Negative numbers indicate a reduction in population. The higher the number the larger the population increase per square mile. The trend in Minnesota (as elsewhere in the nation) is to an increasing urban population. Over the last 100 years, almost all new additions to the Minnesota population have been urban additions.

There was a little correlation among counties when the data were looked at by population density change (Table 49).

Table 49  
Correlation Coefficients of Facilities Needed Now by Counties  
by Density Change

Density change	0.1 - 5.0	5.1 - 50.0	50.1 +
Negative - 0.0	0.454	0.688	0.481
0.1 - 5.0		0.418	0.331
5.1 - 50.0			0.386

There was some agreement among density change classes in the higher and lower ranked facilities (Table 50). All four classes ranked paved trails for walking, hiking, skating, biking high. The three classes with positive density change ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) high. All four classes ranked running tracks low. All of the classes except 0.1 - 5.0 ranked football fields low.

None of the seven counties in the highest density change class (50.1+) saw a current need for 18 of the facilities. Ten of these facilities were in the Outdoor Sport Courts & Fields category. The nine counties in the 5.1 - 50.0 class saw the highest current need for facilities.

As with the overall rankings, there was little commonality among density change classes within facility category (Table 51).



Table 50  
Facilities Needed Now by Counties by Density Change  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>neg - 0.0</b>	<b>0.1 - 5.0</b>	<b>5.1 - 50.0</b>	<b>50.1 - high</b>
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	42.1	68.0	88.9	42.9
Paved trails for walking, hiking, skating, biking	56.7	47.4	48.0	77.8	85.7
Mountain bike trails	46.7	42.1	40.0	88.9	28.6
Nature/interpretive trails	40.0	47.4	24.0	77.8	28.6
Camper cabins	40.0	36.8	32.0	55.6	57.1
Unpaved trails for walking, hiking, biking	38.3	47.4	32.0	44.4	28.6
Horseback trails	38.3	47.4	24.0	88.9	0.0
Modern campgrounds with electric hookups	38.3	52.6	24.0	44.4	42.9
Fishing piers	35.0	31.6	24.0	55.6	57.1
Skateboard parks	28.3	15.8	36.0	22.2	42.9
Accessible hunting blinds, stands, areas for people with disabilities	28.3	26.3	32.0	33.3	14.3
Dog parks	26.7	15.8	24.0	44.4	42.9
Dispersed camping sites	25.0	26.3	12.0	55.6	28.6
Shore fishing/ice fishing areas	23.3	21.1	12.0	55.6	28.6
Nature/Interprtative centers	23.3	26.3	16.0	44.4	14.3
Cross-country ski trails	23.3	36.8	20.0	22.2	0.0
Outdoor swimming pools	21.7	26.3	12.0	44.4	14.3
Swimming beaches	21.7	21.1	12.0	66.7	0.0
Playgrounds	21.7	21.1	20.0	33.3	14.3
Primitive campgrounds	21.7	31.6	8.0	44.4	14.3
Small game hunting areas	21.7	26.3	4.0	44.4	42.9
Archery ranges	20.0	15.8	20.0	44.4	0.0
Boat launching ramps	20.0	21.1	12.0	33.3	28.6
Picnic shelters	20.0	21.1	24.0	22.2	0.0
Natural park areas/open spaces	20.0	10.5	16.0	44.4	28.6
Big game hunting areas	20.0	21.1	0.0	55.6	42.9
Downhill ski areas	18.3	15.8	16.0	22.2	28.6
Basketball courts	16.7	10.5	20.0	33.3	0.0
Volleyball courts	16.7	15.8	16.0	22.2	14.3
Softball fields	16.7	5.3	20.0	44.4	0.0
Soccer fields	16.7	15.8	12.0	33.3	14.3
Snow boarding areas	16.7	15.8	16.0	11.1	28.6
Sledding hills	16.7	10.5	12.0	11.1	57.1
Wildlife/nature observation areas	15.0	21.1	4.0	44.4	0.0
Waterfowl hunting areas	15.0	21.1	4.0	22.2	28.6
Picnic grounds	13.3	15.8	12.0	22.2	0.0
Hunter walking trails	13.3	15.8	12.0	22.2	0.0
Baseball fields	11.7	0.0	16.0	33.3	0.0
Rifle-pistol ranges	11.7	10.5	12.0	22.2	0.0
Marinas	11.7	15.8	8.0	22.2	0.0
Tennis courts	10.0	5.3	12.0	22.2	0.0
Ice rinks	10.0	10.5	12.0	11.1	0.0
Golf courses	8.3	10.5	4.0	22.2	0.0
Snowmobile trails	8.3	10.5	8.0	0.0	14.3
Football fields	6.7	5.3	8.0	11.1	0.0
Running tracks	5.0	5.3	4.0	11.1	0.0

Table 51  
Facilities Needed Now by Counties by Category by Density Change  
(percent indicating need)

Facility	Total	neg - 0.0	0.1 - 5.0	5.1 - 50.0	50.1 - high
<b>Outdoor Sport Courts &amp; Fields</b>					
Skateboard parks	28.3	15.8	36.0	22.2	42.9
Archery ranges	20.0	15.8	20.0	44.4	0.0
Downhill ski areas	18.3	15.8	16.0	22.2	28.6
Basketball courts	16.7	10.5	20.0	33.3	0.0
Volleyball courts	16.7	15.8	16.0	22.2	14.3
Softball fields	16.7	5.3	20.0	44.4	0.0
Soccer fields	16.7	15.8	12.0	33.3	14.3
Snow boarding areas	16.7	15.8	16.0	11.1	28.6
Sledding hills	16.7	10.5	12.0	11.1	57.1
Baseball fields	11.7	0.0	16.0	33.3	0.0
Rifle-pistol ranges	11.7	10.5	12.0	22.2	0.0
Tennis courts	10.0	5.3	12.0	22.2	0.0
Ice rinks	10.0	10.5	12.0	11.1	0.0
Golf courses	8.3	10.5	4.0	22.2	0.0
Football fields	6.7	5.3	8.0	11.1	0.0
Running tracks	5.0	5.3	4.0	11.1	0.0
<b>Water-based Facilities</b>					
Fishing piers	35.0	31.6	24.0	55.6	57.1
Shore fishing/ice fishing areas	23.3	21.1	12.0	55.6	28.6
Outdoor swimming pools	21.7	26.3	12.0	44.4	14.3
Swimming beaches	21.7	21.1	12.0	66.7	0.0
Boat launching ramps	20.0	21.1	12.0	33.3	28.6
Marinas	11.7	15.8	8.0	22.2	0.0
<b>Day Use Facilities</b>					
Dog parks	26.7	15.8	24.0	44.4	42.9
Nature/Interprative centers	23.3	26.3	16.0	44.4	14.3
Playgrounds	21.7	21.1	20.0	33.3	14.3
Picnic shelters	20.0	21.1	24.0	22.2	0.0
Natural park areas/open spaces	20.0	10.5	16.0	44.4	28.6
Wildlife/nature observation areas	15.0	21.1	4.0	44.4	0.0
Picnic grounds	13.3	15.8	12.0	22.2	0.0
<b>Trails</b>					
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	42.1	68.0	88.9	42.9
Paved trails for walking, hiking, skating, biking	56.7	47.4	48.0	77.8	85.7
Mountain bike trails	46.7	42.1	40.0	88.9	28.6
Nature/interpretive trails	40.0	47.4	24.0	77.8	28.6
Unpaved trails for walking, hiking, biking	38.3	47.4	32.0	44.4	28.6
Horseback trails	38.3	47.4	24.0	88.9	0.0
Cross-country ski trails	23.3	36.8	20.0	22.2	0.0
Snowmobile trails	8.3	10.5	8.0	0.0	14.3
<b>Overnight Facilities</b>					
Camper cabins	40.0	36.8	32.0	55.6	57.1
Modern campgrounds with electric hookups	38.3	52.6	24.0	44.4	42.9
Dispersed camping sites	25.0	26.3	12.0	55.6	28.6
Primitive campgrounds	21.7	31.6	8.0	44.4	14.3
<b>Hunting Facilities</b>					
Accessible hunting blinds, stands, areas for people with disabilities	28.3	26.3	32.0	33.3	14.3
Small game hunting areas	21.7	26.3	4.0	44.4	42.9
Big game hunting areas	20.0	21.1	0.0	55.6	42.9
Waterfowl hunting areas	15.0	21.1	4.0	22.2	28.6
Hunter walking trails	13.3	15.8	12.0	22.2	0.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by density change classes is fairly good, except for the highest density change class—negative-0.0 = 0.870, 0.1-20.0 = 0.736, 20.1-50.0 = 0.692, 50.1+ = 0.602. The correlation among density change classes for facilities needed now plus facilities needed within five years was better than the correlation for facilities needed now. However, the correlations were still not very high (Table 52).

Table 52  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five years  
by Counties by Density Change

Density change	0.1 - 5.0	5.1 - 50.0	50.1 +
Negative - 0.0	0.765	0.728	0.571
0.1 - 5.0		0.650	0.451
5.1 - 50.0			0.502

There was some commonality among density change classes in the higher ranked facilities (Table 53). All four classes ranked paved trails for walking, hiking, skating, biking and modern campgrounds with electric hookups high. All four classes ranked running tracks, football fields, and golf courses low.

As with the overall rankings, there was some commonality among density change classes within facility category (Table 54).

Table 53  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Density Change  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>neg - 0.0</b>	<b>0.1 - 5.0</b>	<b>5.1 - 50.0</b>	<b>50.1 - high</b>
Paved trails for walking, hiking, skating, biking	70.3	61.9	63.0	88.9	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	71.4	70.4	88.9	42.9
Modern campgrounds with electric hookups	59.4	61.9	44.4	88.9	71.4
Unpaved trails for walking, hiking, biking	57.8	61.9	44.4	77.8	71.4
Mountain bike trails	53.1	42.9	44.4	100.0	57.1
Nature/interpretive trails	53.1	52.4	40.7	77.8	71.4
Horseback trails	50.0	47.6	44.4	100.0	14.3
Cross-country ski trails	50.0	38.1	51.9	77.8	42.9
Fishing piers	46.9	38.1	33.3	77.8	85.7
Picnic shelters	45.3	33.3	37.0	88.9	57.1
Natural park areas/open spaces	45.3	23.8	37.0	100.0	71.4
Dispersed camping sites	45.3	42.9	40.7	66.7	42.9
Primitive campgrounds	43.8	33.3	40.7	66.7	57.1
Camper cabins	43.8	33.3	44.4	55.6	57.1
Playgrounds	42.2	42.9	25.9	77.8	57.1
Accessible hunting blinds, stands, areas for people with disabilities	40.6	33.3	44.4	66.7	14.3
Skateboard parks	39.1	23.8	44.4	55.6	42.9
Swimming beaches	39.1	28.6	33.3	77.8	42.9
Picnic grounds	39.1	28.6	25.9	88.9	57.1
Nature/Interprtative centers	39.1	33.3	29.6	77.8	42.9
Wildlife/nature observation areas	39.1	33.3	25.9	88.9	42.9
Dog parks	37.5	19.0	25.9	77.8	85.7
Archery ranges	32.8	23.8	29.6	44.4	57.1
Shore fishing/ice fishing areas	31.3	23.8	22.2	77.8	28.6
Big game hunting areas	31.3	23.8	18.5	77.8	42.9
Boat launching ramps	29.7	23.8	29.6	44.4	28.6
Snowmobile trails	29.7	33.3	25.9	22.2	42.9
Small game hunting areas	29.7	23.8	22.2	55.6	42.9
Basketball courts	28.1	9.5	33.3	55.6	28.6
Volleyball courts	28.1	19.0	33.3	22.2	42.9
Outdoor swimming pools	26.6	23.8	14.8	66.7	28.6
Hunter walking trails	26.6	23.8	25.9	44.4	14.3
Waterfowl hunting areas	25.0	19.0	22.2	44.4	28.6
Rifle-pistol ranges	23.4	23.8	14.8	33.3	42.9
Sledding hills	21.9	14.3	11.1	33.3	71.4
Tennis courts	20.3	4.8	22.2	55.6	14.3
Softball fields	20.3	4.8	25.9	44.4	14.3
Soccer fields	20.3	14.3	18.5	33.3	28.6
Ice rinks	20.3	14.3	14.8	55.6	14.3
Downhill ski areas	20.3	14.3	14.8	33.3	42.9
Snow boarding areas	20.3	14.3	18.5	22.2	42.9
Marinas	18.8	19.0	18.5	33.3	0.0
Baseball fields	15.6	0.0	22.2	33.3	14.3
Golf courses	12.5	9.5	11.1	22.2	14.3
Football fields	9.4	4.8	11.1	11.1	14.3
Running tracks	7.8	9.5	3.7	11.1	14.3

Table 54  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Category by Density Change  
(percent indicating need)

Facility	Total	neg - 0.0	0.1 - 5.0	5.1 - 50.0	50.1 - high
<b>Outdoor Sport Courts &amp; Fields</b>					
Skateboard parks	39.1	23.8	44.4	55.6	42.9
Archery ranges	32.8	23.8	29.6	44.4	57.1
Basketball courts	28.1	9.5	33.3	55.6	28.6
Volleyball courts	28.1	19.0	33.3	22.2	42.9
Rifle-pistol ranges	23.4	23.8	14.8	33.3	42.9
Sledding hills	21.9	14.3	11.1	33.3	71.4
Tennis courts	20.3	4.8	22.2	55.6	14.3
Softball fields	20.3	4.8	25.9	44.4	14.3
Soccer fields	20.3	14.3	18.5	33.3	28.6
Ice rinks	20.3	14.3	14.8	55.6	14.3
Downhill ski areas	20.3	14.3	14.8	33.3	42.9
Snow boarding areas	20.3	14.3	18.5	22.2	42.9
Baseball fields	15.6	0.0	22.2	33.3	14.3
Golf courses	12.5	9.5	11.1	22.2	14.3
Football fields	9.4	4.8	11.1	11.1	14.3
Running tracks	7.8	9.5	3.7	11.1	14.3
<b>Water-based Facilities</b>					
Fishing piers	46.9	38.1	33.3	77.8	85.7
Swimming beaches	39.1	28.6	33.3	77.8	42.9
Shore fishing/ice fishing areas	31.3	23.8	22.2	77.8	28.6
Boat launching ramps	29.7	23.8	29.6	44.4	28.6
Outdoor swimming pools	26.6	23.8	14.8	66.7	28.6
Marinas	18.8	19.0	18.5	33.3	0.0
<b>Day Use Facilities</b>					
Picnic shelters	45.3	33.3	37.0	88.9	57.1
Natural park areas/open spaces	45.3	23.8	37.0	100.0	71.4
Playgrounds	42.2	42.9	25.9	77.8	57.1
Picnic grounds	39.1	28.6	25.9	88.9	57.1
Nature/Interpretive centers	39.1	33.3	29.6	77.8	42.9
Wildlife/nature observation areas	39.1	33.3	25.9	88.9	42.9
Dog parks	37.5	19.0	25.9	77.8	85.7
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	70.3	61.9	63.0	88.9	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	71.4	70.4	88.9	42.9
Unpaved trails for walking, hiking, biking	57.8	61.9	44.4	77.8	71.4
Mountain bike trails	53.1	42.9	44.4	100.0	57.1
Nature/interpretive trails	53.1	52.4	40.7	77.8	71.4
Horseback trails	50.0	47.6	44.4	100.0	14.3
Cross-country ski trails	50.0	38.1	51.9	77.8	42.9
Snowmobile trails	29.7	33.3	25.9	22.2	42.9
<b>Overnight Facilities</b>					
Modern campgrounds with electric hookups	59.4	61.9	44.4	88.9	71.4
Dispersed camping sites	45.3	42.9	40.7	66.7	42.9
Primitive campgrounds	43.8	33.3	40.7	66.7	57.1
Camper cabins	43.8	33.3	44.4	55.6	57.1
<b>Hunting Facilities</b>					
Accessible hunting blinds, stands, areas for people with disabilities	40.6	33.3	44.4	66.7	14.3
Big game hunting areas	31.3	23.8	18.5	77.8	42.9
Small game hunting areas	29.7	23.8	22.2	55.6	42.9
Hunter walking trails	26.6	23.8	25.9	44.4	14.3
Waterfowl hunting areas	25.0	19.0	22.2	44.4	28.6

## Analysis by Population

Population figures used for this analysis are from the 2000 U.S. Census.

There was little correlation when county data were examined by population (Table 55). The small number of counties in the 150,000 to 599,999 category (4) and greater than 600,000 category (1) resulted in numerous ties when looking at the higher ranked and lower ranked facilities.

Table 55  
Correlation Coefficients of Facilities Needed Now by Counties  
by Population

Population	20,000-49,999	50,000-149,999	150,000-599,999	600,000+
< 20,000	0.726	0.364	0.451	0.239
20,000-49,999		0.468	0.268	0.061
50,000-149,999			0.413	0.149
150,000-599,999				0.302

All five population classes listed paved trails for walking, hiking, skating, biking in their top five facilities (Table 56). The four population classes with less than 600,000 ranked mountain bike trails high. The three population classes with less than 150,000 ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) high.

All five population classes ranked running tracks and football fields lower.

None of the four counties with population of 150,000-599,999 saw a current need for 17 of the 46 facilities. The one county with a population of 600,000+ saw no current need for 41 of the 46 facilities.

As with the overall rankings, there was little commonality in rankings when looking at facility categories (Table 57).

Table 56  
Facilities Needed Now by Counties by Population  
(percent indicating need)

Facility	Total	< 20,000	20,000 - 49,999	50,000 - 149,999	150,000 - 599,999	600,000 +
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	55.6	60.0	100.0	25.0	0.0
Paved trails for walking, hiking, skating, biking	56.7	48.1	55.0	75.0	75.0	100.0
Mountain bike trails	46.7	44.4	45.0	62.5	50.0	0.0
Nature/interpretive trails	40.0	37.0	45.0	50.0	25.0	0.0
Camper cabins	40.0	37.0	40.0	25.0	75.0	100.0
Unpaved trails for walking, hiking, biking	38.3	40.7	40.0	37.5	25.0	0.0
Horseback trails	38.3	33.3	45.0	62.5	0.0	0.0
Modern campgrounds with electric hookups	38.3	44.4	30.0	37.5	50.0	0.0
Fishing piers	35.0	25.9	40.0	50.0	50.0	0.0
Skateboard parks	28.3	25.9	25.0	25.0	75.0	0.0
Accessible hunting blinds, stands, areas for people with disabilities	28.3	29.6	30.0	25.0	25.0	0.0
Dog parks	26.7	18.5	15.0	75.0	25.0	100.0
Dispersed camping sites	25.0	18.5	35.0	25.0	25.0	0.0
Shore fishing/ice fishing areas	23.3	14.8	30.0	37.5	25.0	0.0
Nature/Interprtative centers	23.3	25.9	25.0	12.5	25.0	0.0
Cross-country ski trails	23.3	33.3	25.0	0.0	0.0	0.0
Outdoor swimming pools	21.7	25.9	20.0	12.5	25.0	0.0
Swimming beaches	21.7	14.8	30.0	37.5	0.0	0.0
Playgrounds	21.7	18.5	30.0	25.0	0.0	0.0
Primitive campgrounds	21.7	18.5	35.0	0.0	25.0	0.0
Small game hunting areas	21.7	14.8	20.0	37.5	50.0	0.0
Archery ranges	20.0	22.2	15.0	37.5	0.0	0.0
Boat launching ramps	20.0	14.8	25.0	25.0	25.0	0.0
Picnic shelters	20.0	18.5	30.0	12.5	0.0	0.0
Natural park areas/open spaces	20.0	14.8	15.0	37.5	50.0	0.0
Big game hunting areas	20.0	14.8	10.0	50.0	50.0	0.0
Downhill ski areas	18.3	18.5	10.0	25.0	25.0	100.0
Basketball courts	16.7	14.8	15.0	37.5	0.0	0.0
Volleyball courts	16.7	18.5	10.0	25.0	25.0	0.0
Softball fields	16.7	18.5	20.0	12.5	0.0	0.0
Soccer fields	16.7	18.5	10.0	25.0	25.0	0.0
Snow boarding areas	16.7	18.5	10.0	12.5	25.0	100.0
Sledding hills	16.7	18.5	0.0	25.0	75.0	0.0
Wildlife/nature observation areas	15.0	14.8	15.0	25.0	0.0	0.0
Waterfowl hunting areas	15.0	14.8	5.0	25.0	50.0	0.0
Picnic grounds	13.3	18.5	15.0	0.0	0.0	0.0
Hunter walking trails	13.3	14.8	10.0	25.0	0.0	0.0
Baseball fields	11.7	11.1	15.0	12.5	0.0	0.0
Rifle-pistol ranges	11.7	14.8	5.0	25.0	0.0	0.0
Marinas	11.7	14.8	10.0	12.5	0.0	0.0
Tennis courts	10.0	7.4	10.0	25.0	0.0	0.0
Ice rinks	10.0	11.1	10.0	12.5	0.0	0.0
Golf courses	8.3	11.1	5.0	12.5	0.0	0.0
Snowmobile trails	8.3	14.8	0.0	0.0	25.0	0.0
Football fields	6.7	11.1	0.0	12.5	0.0	0.0
Running tracks	5.0	7.4	0.0	12.5	0.0	0.0

Table 57  
Facilities Needed Now by Counties by Category by Population  
(percent indicating need)

Facility	Total	< 20,000	20,000 - 49,999	50,000 - 149,999	150,000 - 599,999	600,000 +
<b>Outdoor Sport Courts &amp; Fields</b>						
Skateboard parks	28.3	25.9	25.0	25.0	75.0	0.0
Archery ranges	20.0	22.2	15.0	37.5	0.0	0.0
Downhill ski areas	18.3	18.5	10.0	25.0	25.0	100.0
Basketball courts	16.7	14.8	15.0	37.5	0.0	0.0
Volleyball courts	16.7	18.5	10.0	25.0	25.0	0.0
Softball fields	16.7	18.5	20.0	12.5	0.0	0.0
Soccer fields	16.7	18.5	10.0	25.0	25.0	0.0
Snow boarding areas	16.7	18.5	10.0	12.5	25.0	100.0
Sledding hills	16.7	18.5	0.0	25.0	75.0	0.0
Baseball fields	11.7	11.1	15.0	12.5	0.0	0.0
Rifle-pistol ranges	11.7	14.8	5.0	25.0	0.0	0.0
Tennis courts	10.0	7.4	10.0	25.0	0.0	0.0
Ice rinks	10.0	11.1	10.0	12.5	0.0	0.0
Golf courses	8.3	11.1	5.0	12.5	0.0	0.0
Football fields	6.7	11.1	0.0	12.5	0.0	0.0
Running tracks	5.0	7.4	0.0	12.5	0.0	0.0
<b>Water-based Facilities</b>						
Fishing piers	35.0	25.9	40.0	50.0	50.0	0.0
Shore fishing/ice fishing areas	23.3	14.8	30.0	37.5	25.0	0.0
Outdoor swimming pools	21.7	25.9	20.0	12.5	25.0	0.0
Swimming beaches	21.7	14.8	30.0	37.5	0.0	0.0
Boat launching ramps	20.0	14.8	25.0	25.0	25.0	0.0
Marinas	11.7	14.8	10.0	12.5	0.0	0.0
<b>Day Use Facilities</b>						
Dog parks	26.7	18.5	15.0	75.0	25.0	100.0
Nature/Interprative centers	23.3	25.9	25.0	12.5	25.0	0.0
Playgrounds	21.7	18.5	30.0	25.0	0.0	0.0
Picnic shelters	20.0	18.5	30.0	12.5	0.0	0.0
Natural park areas/open spaces	20.0	14.8	15.0	37.5	50.0	0.0
Wildlife/nature observation areas	15.0	14.8	15.0	25.0	0.0	0.0
Picnic grounds	13.3	18.5	15.0	0.0	0.0	0.0
<b>Trails</b>						
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	55.6	60.0	100.0	25.0	0.0
Paved trails for walking, hiking, skating, biking	56.7	48.1	55.0	75.0	75.0	100.0
Mountain bike trails	46.7	44.4	45.0	62.5	50.0	0.0
Nature/interpretive trails	40.0	37.0	45.0	50.0	25.0	0.0
Unpaved trails for walking, hiking, biking	38.3	40.7	40.0	37.5	25.0	0.0
Horseback trails	38.3	33.3	45.0	62.5	0.0	0.0
Cross-country ski trails	23.3	33.3	25.0	0.0	0.0	0.0
Snowmobile trails	8.3	14.8	0.0	0.0	25.0	0.0
<b>Overnight Facilities</b>						
Camper cabins	40.0	37.0	40.0	25.0	75.0	100.0
Modern campgrounds with electric hookups	38.3	44.4	30.0	37.5	50.0	0.0
Dispersed camping sites	25.0	18.5	35.0	25.0	25.0	0.0
Primitive campgrounds	21.7	18.5	35.0	0.0	25.0	0.0
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	28.3	29.6	30.0	25.0	25.0	0.0
Small game hunting areas	21.7	14.8	20.0	37.5	50.0	0.0
Big game hunting areas	20.0	14.8	10.0	50.0	50.0	0.0
Waterfowl hunting areas	15.0	14.8	5.0	25.0	50.0	0.0
Hunter walking trails	13.3	14.8	10.0	25.0	0.0	0.0



When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by population was only fairly—<20,000 = 0.798, 20,000-49,999 = 0.894, 50,000-149,999 = 0.599, 150,000-599,999 = 0.544, 600,000+ = 0.761. As with facilities needed now, there was little correlation among population categories for facilities needed now plus facilities needed within five years (Table 58). The small number of counties in the 150,000 to 599,999 category (4) and greater than 600,000 category (1) resulted in numerous ties when looking at the higher ranked and lower ranked facilities.

Table 58  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by Counties by Population

Population	20,000-49,999	50,000-149,999	150,000-599,999	600,000+
< 20,000	0.745	0.458	0.587	0.217
20,000-49,999		0.460	0.512	0.030
50,000-149,999			0.418	0.091
150,000-599,999				0.291

As with facilities needed now, there was some commonality for counties in their ranking of higher and lower ranked facilities (Table 59). When looking at facilities needed now along with facilities needed within five years, the four counties in the 150,000-599,999 still saw no need for nine facilities. The one county with 600,000+ saw no need for 38 of the 46 facilities.

There was some commonality when looking at facilities by facility category (Table 60).

Table 59  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Population  
(percent indicating need)

Facility	Total	< 20,000	20,000 - 49,999	50,000 - 149,999	150,000 - 599,999	600,000 +
Paved trails for walking, hiking, skating, biking	70.3	62.1	72.7	75.0	100.0	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	75.9	63.6	100.0	25.0	0.0
Modern campgrounds with electric hookups	59.4	55.2	54.5	75.0	75.0	100.0
Unpaved trails for walking, hiking, biking	57.8	55.2	54.5	75.0	75.0	0.0
Mountain bike trails	53.1	44.8	54.5	62.5	75.0	100.0
Nature/interpretive trails	53.1	48.3	54.5	62.5	75.0	0.0
Horseback trails	50.0	41.4	59.1	87.5	0.0	0.0
Cross-country ski trails	50.0	48.3	50.0	50.0	75.0	0.0
Fishing piers	46.9	34.5	50.0	62.5	100.0	0.0
Picnic shelters	45.3	27.6	59.1	62.5	75.0	0.0
Natural park areas/open spaces	45.3	31.0	45.5	87.5	75.0	0.0
Dispersed camping sites	45.3	37.9	59.1	37.5	50.0	0.0
Primitive campgrounds	43.8	31.0	59.1	37.5	75.0	0.0
Camper cabins	43.8	37.9	50.0	25.0	75.0	100.0
Playgrounds	42.2	27.6	54.5	50.0	75.0	0.0
Accessible hunting blinds, stands, areas for people with disabilities	40.6	34.5	54.5	37.5	25.0	0.0
Skateboard parks	39.1	27.6	50.0	37.5	75.0	0.0
Swimming beaches	39.1	27.6	50.0	50.0	50.0	0.0
Picnic grounds	39.1	27.6	45.5	62.5	50.0	0.0
Nature/Interpretive centers	39.1	31.0	45.5	50.0	50.0	0.0
Wildlife/nature observation areas	39.1	31.0	36.4	75.0	50.0	0.0
Dog parks	37.5	20.7	31.8	75.0	100.0	100.0
Archery ranges	32.8	31.0	22.7	50.0	75.0	0.0
Shore fishing/ice fishing areas	31.3	20.7	40.9	50.0	25.0	0.0
Big game hunting areas	31.3	13.8	40.9	62.5	50.0	0.0
Boat launching ramps	29.7	27.6	36.4	25.0	25.0	0.0
Snowmobile trails	29.7	34.5	18.2	25.0	50.0	100.0
Small game hunting areas	29.7	13.8	45.5	37.5	50.0	0.0
Basketball courts	28.1	20.7	31.8	50.0	25.0	0.0
Volleyball courts	28.1	27.6	22.7	37.5	50.0	0.0
Outdoor swimming pools	26.6	24.1	22.7	37.5	50.0	0.0
Hunter walking trails	26.6	20.7	36.4	25.0	25.0	0.0
Waterfowl hunting areas	25.0	13.8	36.4	25.0	50.0	0.0
Rifle-pistol ranges	23.4	24.1	9.1	50.0	50.0	0.0
Sledding hills	21.9	20.7	4.5	50.0	75.0	0.0
Tennis courts	20.3	13.8	22.7	50.0	0.0	0.0
Softball fields	20.3	17.2	22.7	37.5	0.0	0.0
Soccer fields	20.3	20.7	9.1	50.0	25.0	0.0
Ice rinks	20.3	13.8	22.7	50.0	0.0	0.0
Downhill ski areas	20.3	17.2	9.1	50.0	25.0	100.0
Snow boarding areas	20.3	17.2	13.6	37.5	25.0	100.0
Marinas	18.8	20.7	22.7	12.5	0.0	0.0
Baseball fields	15.6	10.3	18.2	37.5	0.0	0.0
Golf courses	12.5	17.2	4.5	25.0	0.0	0.0
Football fields	9.4	10.3	0.0	37.5	0.0	0.0
Running tracks	7.8	10.3	0.0	25.0	0.0	0.0

Table 60  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Category by Population  
(percent indicating need)

Facility	Total	< 20,000	20,000 - 49,999	50,000 - 149,999	150,000 - 599,999	600,000 +
<b>Outdoor Sport Courts &amp; Fields</b>						
Skateboard parks	39.1	27.6	50.0	37.5	75.0	0.0
Archery ranges	32.8	31.0	22.7	50.0	75.0	0.0
Basketball courts	28.1	20.7	31.8	50.0	25.0	0.0
Volleyball courts	28.1	27.6	22.7	37.5	50.0	0.0
Rifle-pistol ranges	23.4	24.1	9.1	50.0	50.0	0.0
Sledding hills	21.9	20.7	4.5	50.0	75.0	0.0
Tennis courts	20.3	13.8	22.7	50.0	0.0	0.0
Softball fields	20.3	17.2	22.7	37.5	0.0	0.0
Soccer fields	20.3	20.7	9.1	50.0	25.0	0.0
Ice rinks	20.3	13.8	22.7	50.0	0.0	0.0
Downhill ski areas	20.3	17.2	9.1	50.0	25.0	100.0
Snow boarding areas	20.3	17.2	13.6	37.5	25.0	100.0
Baseball fields	15.6	10.3	18.2	37.5	0.0	0.0
Golf courses	12.5	17.2	4.5	25.0	0.0	0.0
Football fields	9.4	10.3	0.0	37.5	0.0	0.0
Running tracks	7.8	10.3	0.0	25.0	0.0	0.0
<b>Water-based Facilities</b>						
Fishing piers	46.9	34.5	50.0	62.5	100.0	0.0
Swimming beaches	39.1	27.6	50.0	50.0	50.0	0.0
Shore fishing/ice fishing areas	31.3	20.7	40.9	50.0	25.0	0.0
Boat launching ramps	29.7	27.6	36.4	25.0	25.0	0.0
Outdoor swimming pools	26.6	24.1	22.7	37.5	50.0	0.0
Marinas	18.8	20.7	22.7	12.5	0.0	0.0
<b>Day Use Facilities</b>						
Picnic shelters	45.3	27.6	59.1	62.5	75.0	0.0
Natural park areas/open spaces	45.3	31.0	45.5	87.5	75.0	0.0
Playgrounds	42.2	27.6	54.5	50.0	75.0	0.0
Picnic grounds	39.1	27.6	45.5	62.5	50.0	0.0
Nature/Interprative centers	39.1	31.0	45.5	50.0	50.0	0.0
Wildlife/nature observation areas	39.1	31.0	36.4	75.0	50.0	0.0
Dog parks	37.5	20.7	31.8	75.0	100.0	100.0
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	70.3	62.1	72.7	75.0	100.0	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	75.9	63.6	100.0	25.0	0.0
Unpaved trails for walking, hiking, biking	57.8	55.2	54.5	75.0	75.0	0.0
Mountain bike trails	53.1	44.8	54.5	62.5	75.0	100.0
Nature/interpretive trails	53.1	48.3	54.5	62.5	75.0	0.0
Horseback trails	50.0	41.4	59.1	87.5	0.0	0.0
Cross-country ski trails	50.0	48.3	50.0	50.0	75.0	0.0
Snowmobile trails	29.7	34.5	18.2	25.0	50.0	100.0
<b>Overnight Facilities</b>						
Modern campgrounds with electric hookups	59.4	55.2	54.5	75.0	75.0	100.0
Dispersed camping sites	45.3	37.9	59.1	37.5	50.0	0.0
Primitive campgrounds	43.8	31.0	59.1	37.5	75.0	0.0
Camper cabins	43.8	37.9	50.0	25.0	75.0	100.0
<b>Hunting Facilities</b>						
Accessible hunting blinds, stands, areas for people with disabilities	40.6	34.5	54.5	37.5	25.0	0.0
Big game hunting areas	31.3	13.8	40.9	62.5	50.0	0.0
Small game hunting areas	29.7	13.8	45.5	37.5	50.0	0.0
Hunter walking trails	26.6	20.7	36.4	25.0	25.0	0.0
Waterfowl hunting areas	25.0	13.8	36.4	25.0	50.0	0.0

### Analysis by Income

Income figures used for this analysis are median household income from the 2000 U.S. Census.

There was only fair correlation among income groups in ranking facilities (Table 61).

Table 61  
Correlation Coefficients of Facilities Needed Now by Counties  
By Income

Income	\$35,000-\$39,999	\$40,000-\$49,999	\$50,000+
\$30,000-\$34,000	0.609	0.537	0.513
\$35,000-\$39,999		0.625	0.565
\$40,000-\$49,999			0.470

All income groups ranked motorized, off-highway vehicle trails (ATV, 4X4, motorcycle) in their top five (Table 62). All groups ranked running tracks and football fields in their bottom five. All groups except \$30,000-\$34,999 ranked golf courses in their bottom five.

There was more commonality among income groups in the higher and lower ranked facilities when looked at by facility category (Table 63).

Table 62  
Facilities Needed Now by Counties by Income  
(percent indicating need)

Facility	Total	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	57.9	65.0	54.5	60.0
Paved trails for walking, hiking, skating, biking	56.7	57.9	50.0	45.5	80.0
Mountain bike trails	46.7	36.8	45.0	72.7	40.0
Nature/interpretive trails	40.0	36.8	40.0	36.4	50.0
Camper cabins	40.0	36.8	30.0	54.5	50.0
Unpaved trails for walking, hiking, biking	38.3	42.1	45.0	36.4	20.0
Horseback trails	38.3	31.6	45.0	45.5	30.0
Modern campgrounds with electric hookups	38.3	52.6	25.0	36.4	40.0
Fishing piers	35.0	31.6	30.0	36.4	50.0
Skateboard parks	28.3	26.3	25.0	36.4	30.0
Accessible hunting blinds, stands, areas for people with disabilities	28.3	42.1	15.0	36.4	20.0
Dog parks	26.7	10.5	35.0	27.3	40.0
Dispersed camping sites	25.0	26.3	15.0	36.4	30.0
Shore fishing/ice fishing areas	23.3	21.1	15.0	36.4	30.0
Nature/Interprtative centers	23.3	21.1	20.0	27.3	30.0
Cross-country ski trails	23.3	47.4	15.0	18.2	0.0
Outdoor swimming pools	21.7	21.1	20.0	27.3	20.0
Swimming beaches	21.7	21.1	20.0	27.3	20.0
Playgrounds	21.7	21.1	10.0	45.5	20.0
Primitive campgrounds	21.7	31.6	10.0	27.3	20.0
Small game hunting areas	21.7	21.1	10.0	18.2	50.0
Archery ranges	20.0	21.1	15.0	27.3	20.0
Boat launching ramps	20.0	21.1	10.0	27.3	30.0
Picnic shelters	20.0	26.3	5.0	45.5	10.0
Natural park areas/open spaces	20.0	15.8	10.0	36.4	30.0
Big game hunting areas	20.0	21.1	0.0	18.2	60.0
Downhill ski areas	18.3	21.1	10.0	18.2	30.0
Basketball courts	16.7	15.8	10.0	36.4	10.0
Volleyball courts	16.7	21.1	10.0	36.4	0.0
Softball fields	16.7	15.8	10.0	36.4	10.0
Soccer fields	16.7	26.3	10.0	18.2	10.0
Snow boarding areas	16.7	21.1	10.0	18.2	20.0
Sledding hills	16.7	21.1	0.0	27.3	30.0
Wildlife/nature observation areas	15.0	21.1	5.0	27.3	10.0
Waterfowl hunting areas	15.0	21.1	5.0	9.1	30.0
Picnic grounds	13.3	21.1	0.0	27.3	10.0
Hunter walking trails	13.3	21.1	10.0	18.2	0.0
Baseball fields	11.7	5.3	10.0	27.3	10.0
Rifle-pistol ranges	11.7	15.8	5.0	18.2	10.0
Marinas	11.7	10.5	15.0	18.2	0.0
Tennis courts	10.0	10.5	5.0	27.3	0.0
Ice rinks	10.0	21.1	5.0	9.1	0.0
Golf courses	8.3	15.8	0.0	18.2	0.0
Snowmobile trails	8.3	10.5	5.0	9.1	10.0
Football fields	6.7	10.5	0.0	18.2	0.0
Running tracks	5.0	10.5	0.0	9.1	0.0

Table 63  
Facilities Needed Now by Counties by Category by Income  
(percent indicating need)

Facility	Total	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
<b>Outdoor Sport Courts &amp; Fields</b>					
Skateboard parks	28.3	26.3	25.0	36.4	30.0
Archery ranges	20.0	21.1	15.0	27.3	20.0
Downhill ski areas	18.3	21.1	10.0	18.2	30.0
Basketball courts	16.7	15.8	10.0	36.4	10.0
Volleyball courts	16.7	21.1	10.0	36.4	0.0
Softball fields	16.7	15.8	10.0	36.4	10.0
Soccer fields	16.7	26.3	10.0	18.2	10.0
Snow boarding areas	16.7	21.1	10.0	18.2	20.0
Sledding hills	16.7	21.1	0.0	27.3	30.0
Baseball fields	11.7	5.3	10.0	27.3	10.0
Rifle-pistol ranges	11.7	15.8	5.0	18.2	10.0
Tennis courts	10.0	10.5	5.0	27.3	0.0
Ice rinks	10.0	21.1	5.0	9.1	0.0
Golf courses	8.3	15.8	0.0	18.2	0.0
Football fields	6.7	10.5	0.0	18.2	0.0
Running tracks	5.0	10.5	0.0	9.1	0.0
<b>Water-based Facilities</b>					
Fishing piers	35.0	31.6	30.0	36.4	50.0
Shore fishing/ice fishing areas	23.3	21.1	15.0	36.4	30.0
Outdoor swimming pools	21.7	21.1	20.0	27.3	20.0
Swimming beaches	21.7	21.1	20.0	27.3	20.0
Boat launching ramps	20.0	21.1	10.0	27.3	30.0
Marinas	11.7	10.5	15.0	18.2	0.0
<b>Day Use Facilities</b>					
Dog parks	26.7	10.5	35.0	27.3	40.0
Nature/Interprtative centers	23.3	21.1	20.0	27.3	30.0
Playgrounds	21.7	21.1	10.0	45.5	20.0
Picnic shelters	20.0	26.3	5.0	45.5	10.0
Natural park areas/open spaces	20.0	15.8	10.0	36.4	30.0
Wildlife/nature observation areas	15.0	21.1	5.0	27.3	10.0
Picnic grounds	13.3	21.1	0.0	27.3	10.0
<b>Trails</b>					
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	60.0	57.9	65.0	54.5	60.0
Paved trails for walking, hiking, skating, biking	56.7	57.9	50.0	45.5	80.0
Mountain bike trails	46.7	36.8	45.0	72.7	40.0
Nature/interpretive trails	40.0	36.8	40.0	36.4	50.0
Unpaved trails for walking, hiking, biking	38.3	42.1	45.0	36.4	20.0
Horseback trails	38.3	31.6	45.0	45.5	30.0
Cross-country ski trails	23.3	47.4	15.0	18.2	0.0
Snowmobile trails	8.3	10.5	5.0	9.1	10.0
<b>Overnight Facilities</b>					
Camper cabins	40.0	36.8	30.0	54.5	50.0
Modern campgrounds with electric hookups	38.3	52.6	25.0	36.4	40.0
Dispersed camping sites	25.0	26.3	15.0	36.4	30.0
Primitive campgrounds	21.7	31.6	10.0	27.3	20.0
<b>Hunting Facilities</b>					
Accessible hunting blinds, stands, areas for people with disabilities	28.3	42.1	15.0	36.4	20.0
Small game hunting areas	21.7	21.1	10.0	18.2	50.0
Big game hunting areas	20.0	21.1	0.0	18.2	60.0
Waterfowl hunting areas	15.0	21.1	5.0	9.1	30.0
Hunter walking trails	13.3	21.1	10.0	18.2	0.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by income is fairly good for incomes less than \$50,000—\$30,000-\$34,999 = 0.819, \$35,000-\$39,999 = 0.805, \$40,000-\$49,999 = 0.854, \$50,000+ = 0.665. As with the correlation among income groups for facilities needed now, the correlation among income groups was only fair (Table 64). There was better correlation among income groups when facilities needed within five years was added to facilities needed now.

Table 64  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by Counties By Income

Income	\$35,000-\$39,999	\$40,000-\$49,999	\$50,000+
\$30,000-\$34,000	0.812	0.586	0.572
\$35,000-\$39,999		0.793	0.645
\$40,000-\$49,999			0.625

There was some commonality among income groups in the higher and lower ranked facilities (Table 65).

There was less commonality among income groups in the higher and lower ranked facilities when looked at by facility category (Table 66).

Table 65  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Income  
(percent indicating need)

Facility	Total	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
Paved trails for walking, hiking, skating, biking	70.3	70.0	59.1	75.0	90.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	85.0	72.7	50.0	60.0
Modern campgrounds with electric hookups	59.4	65.0	54.5	41.7	80.0
Unpaved trails for walking, hiking, biking	57.8	60.0	54.5	58.3	60.0
Mountain bike trails	53.1	45.0	45.5	66.7	70.0
Nature/interpretive trails	53.1	50.0	50.0	50.0	70.0
Horseback trails	50.0	45.0	54.5	50.0	50.0
Cross-country ski trails	50.0	70.0	40.9	33.3	50.0
Fishing piers	46.9	40.0	36.4	50.0	80.0
Picnic shelters	45.3	35.0	31.8	66.7	70.0
Natural park areas/open spaces	45.3	30.0	36.4	50.0	90.0
Dispersed camping sites	45.3	50.0	45.5	33.3	50.0
Primitive campgrounds	43.8	50.0	31.8	41.7	60.0
Camper cabins	43.8	40.0	40.9	50.0	50.0
Playgrounds	42.2	35.0	27.3	58.3	70.0
Accessible hunting blinds, stands, areas for people with disabilities	40.6	55.0	27.3	41.7	40.0
Skateboard parks	39.1	35.0	40.9	41.7	40.0
Swimming beaches	39.1	50.0	27.3	25.0	60.0
Picnic grounds	39.1	30.0	22.7	50.0	80.0
Nature/Interprtative centers	39.1	30.0	31.8	50.0	60.0
Wildlife/nature observation areas	39.1	40.0	27.3	41.7	60.0
Dog parks	37.5	20.0	36.4	41.7	70.0
Archery ranges	32.8	30.0	27.3	33.3	50.0
Shore fishing/ice fishing areas	31.3	25.0	27.3	33.3	50.0
Big game hunting areas	31.3	30.0	22.7	16.7	70.0
Boat launching ramps	29.7	35.0	22.7	25.0	40.0
Snowmobile trails	29.7	40.0	22.7	8.3	50.0
Small game hunting areas	29.7	30.0	18.2	25.0	60.0
Basketball courts	28.1	25.0	22.7	41.7	30.0
Volleyball courts	28.1	30.0	22.7	41.7	20.0
Outdoor swimming pools	26.6	20.0	22.7	25.0	50.0
Hunter walking trails	26.6	30.0	22.7	33.3	20.0
Waterfowl hunting areas	25.0	30.0	18.2	25.0	30.0
Rifle-pistol ranges	23.4	25.0	13.6	16.7	50.0
Sledding hills	21.9	25.0	4.5	25.0	50.0
Tennis courts	20.3	10.0	18.2	33.3	30.0
Softball fields	20.3	15.0	18.2	33.3	20.0
Soccer fields	20.3	25.0	13.6	25.0	20.0
Ice rinks	20.3	25.0	13.6	16.7	30.0
Downhill ski areas	20.3	20.0	9.1	16.7	50.0
Snow boarding areas	20.3	20.0	13.6	16.7	40.0
Marinas	18.8	25.0	22.7	16.7	0.0
Baseball fields	15.6	5.0	18.2	25.0	20.0
Golf courses	12.5	20.0	4.5	16.7	10.0
Football fields	9.4	10.0	4.5	16.7	10.0
Running tracks	7.8	15.0	0.0	8.3	10.0



Table 66  
Facilities Needed Now Plus Facilities Needed Within Five Years by Counties by Category by Income  
(percent indicating need)

Facility	Total	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
<b>Outdoor Sport Courts &amp; Fields</b>					
Skateboard parks	39.1	35.0	40.9	41.7	40.0
Archery ranges	32.8	30.0	27.3	33.3	50.0
Basketball courts	28.1	25.0	22.7	41.7	30.0
Volleyball courts	28.1	30.0	22.7	41.7	20.0
Rifle-pistol ranges	23.4	25.0	13.6	16.7	50.0
Sledding hills	21.9	25.0	4.5	25.0	50.0
Tennis courts	20.3	10.0	18.2	33.3	30.0
Softball fields	20.3	15.0	18.2	33.3	20.0
Soccer fields	20.3	25.0	13.6	25.0	20.0
Ice rinks	20.3	25.0	13.6	16.7	30.0
Downhill ski areas	20.3	20.0	9.1	16.7	50.0
Snow boarding areas	20.3	20.0	13.6	16.7	40.0
Baseball fields	15.6	5.0	18.2	25.0	20.0
Golf courses	12.5	20.0	4.5	16.7	10.0
Football fields	9.4	10.0	4.5	16.7	10.0
Running tracks	7.8	15.0	0.0	8.3	10.0
<b>Water-based Facilities</b>					
Fishing piers	46.9	40.0	36.4	50.0	80.0
Swimming beaches	39.1	50.0	27.3	25.0	60.0
Shore fishing/ice fishing areas	31.3	25.0	27.3	33.3	50.0
Boat launching ramps	29.7	35.0	22.7	25.0	40.0
Outdoor swimming pools	26.6	20.0	22.7	25.0	50.0
Marinas	18.8	25.0	22.7	16.7	0.0
<b>Day Use Facilities</b>					
Picnic shelters	45.3	35.0	31.8	66.7	70.0
Natural park areas/open spaces	45.3	30.0	36.4	50.0	90.0
Playgrounds	42.2	35.0	27.3	58.3	70.0
Picnic grounds	39.1	30.0	22.7	50.0	80.0
Nature/Interpretive centers	39.1	30.0	31.8	50.0	60.0
Wildlife/nature observation areas	39.1	40.0	27.3	41.7	60.0
Dog parks	37.5	20.0	36.4	41.7	70.0
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	70.3	70.0	59.1	75.0	90.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	70.3	85.0	72.7	50.0	60.0
Unpaved trails for walking, hiking, biking	57.8	60.0	54.5	58.3	60.0
Mountain bike trails	53.1	45.0	45.5	66.7	70.0
Nature/interpretive trails	53.1	50.0	50.0	50.0	70.0
Horseback trails	50.0	45.0	54.5	50.0	50.0
Cross-country ski trails	50.0	70.0	40.9	33.3	50.0
Snowmobile trails	29.7	40.0	22.7	8.3	50.0
<b>Overnight Facilities</b>					
Modern campgrounds with electric hookups	59.4	65.0	54.5	41.7	80.0
Dispersed camping sites	45.3	50.0	45.5	33.3	50.0
Primitive campgrounds	43.8	50.0	31.8	41.7	60.0
Camper cabins	43.8	40.0	40.9	50.0	50.0
<b>Hunting Facilities</b>					
Accessible hunting blinds, stands, areas for people with disabilities	40.6	55.0	27.3	41.7	40.0
Big game hunting areas	31.3	30.0	22.7	16.7	70.0
Small game hunting areas	29.7	30.0	18.2	25.0	60.0
Hunter walking trails	26.6	30.0	22.7	33.3	20.0
Waterfowl hunting areas	25.0	30.0	18.2	25.0	30.0

### Analysis by Whether Facility is Provided

The correlations were moderate when facilities provided by counties were looked at by region (most 0.6 or higher) (Table 67), density change (0.6 or higher) (Table 69), population (most 0.6 or higher) (Table 71), and income (0.7 or higher) (Table 73). For regions, the Metro region was the most different. For density change, population, and income, the lowest correlations were between the highest category and the other categories.

Some facilities are provided by most counties (e.g. picnic shelters; picnic grounds; natural park areas/open spaces; unpaved trails for walking, hiking, biking). Over one-third of the facilities (16 of 46) are provided by fewer than 10 percent of the counties. These lesser-provided facilities are primarily in the Outdoor Sport Courts & Fields category, a category not usually associated with counties. Most counties do not see a need for these facilities now or within the next five years. Tables of facilities provided by region (Table 68), density change (Table 70), population (Table 72) and income (Table 74) follow.

Unlike the results for cities where cities that don't provide a facility are more likely to indicate a current need for that facility, counties were slightly more likely to see a current need for facilities they already provide (Table 75). Counties that provide the facility indicated a greater need now for 25 of the 46 facilities. Counties that did not provide the facility indicated a greater need now for 20 of the 46 facilities. One facility was a tie.

When looking at facilities needed now plus facilities needed within the next five years, the same trend occurs with 34 of the 46 facilities (74 percent) being requested more by counties that already provide the facility than counties that do not provide the facility (Table 75).

Table 67  
Correlation Coefficients of Facilities Provided by Counties by Region

Region	Northeast	South	Central	Metro
Northwest	0.787	0.865	0.815	0.659
Northeast		0.588	0.632	0.309
South			0.808	0.772
Central				0.803

Table 68  
Facilities Provided by Counties by Region  
(percent providing facility)

Facility	Total	Northwest	Northeast	South	Central	Metro
Picnic shelters	79.7	71.4	50.0	83.3	85.7	100.0
Picnic grounds	79.7	71.4	50.0	83.3	85.7	100.0
Natural park areas/open spaces	73.4	71.4	33.3	73.3	85.7	100.0
Unpaved trails for walking, hiking, biking	65.6	64.3	50.0	63.3	71.4	85.7
Playgrounds	59.4	50.0	16.7	63.3	71.4	85.7
Paved trails for walking, hiking, skating, biking	57.8	57.1	16.7	50.0	85.7	100.0
Boat launching ramps	51.6	64.3	33.3	40.0	57.1	85.7
Swimming beaches	51.6	35.7	33.3	53.3	57.1	85.7
Primitive campgrounds	51.6	35.7	66.7	56.7	42.9	57.1
Cross-country ski trails	48.4	28.6	66.7	33.3	85.7	100.0
Modern campgrounds with electric hookups	48.4	28.6	16.7	63.3	28.6	71.4
Fishing piers	45.3	35.7	33.3	43.3	42.9	85.7
Shore fishing/ice fishing areas	45.3	42.9	16.7	43.3	42.9	85.7
Wildlife/nature observation areas	45.3	28.6	16.7	40.0	85.7	85.7
Nature/interpretive trails	42.2	28.6	16.7	33.3	71.4	100.0
Horseback trails	40.6	21.4	50.0	36.7	57.1	71.4
Snowmobile trails	32.8	57.1	66.7	20.0	28.6	14.3
Volleyball courts	31.3	21.4	0.0	30.0	28.6	85.7
Dispersed camping sites	31.3	28.6	50.0	26.7	28.6	42.9
Mountain bike trails	29.7	21.4	16.7	20.0	57.1	71.4
Nature/Interprtative centers	26.6	14.3	16.7	23.3	28.6	71.4
Big game hunting areas	18.8	28.6	66.7	10.0	14.3	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	17.2	21.4	50.0	13.3	14.3	0.0
Small game hunting areas	17.2	28.6	66.7	6.7	14.3	0.0
Softball fields	15.6	21.4	16.7	20.0	0.0	0.0
Waterfowl hunting areas	15.6	28.6	33.3	6.7	14.3	14.3
Hunter walking trails	14.1	21.4	66.7	3.3	14.3	0.0
Sledding hills	12.5	7.1	0.0	10.0	14.3	42.9
Archery ranges	10.9	0.0	0.0	6.7	0.0	71.4
Camper cabins	10.9	7.1	0.0	13.3	0.0	28.6
Baseball fields	9.4	7.1	16.7	13.3	0.0	0.0
Tennis courts	7.8	7.1	0.0	10.0	0.0	14.3
Ice rinks	7.8	0.0	0.0	13.3	0.0	14.3
Basketball courts	6.3	7.1	0.0	10.0	0.0	0.0
Golf courses	6.3	7.1	0.0	3.3	0.0	28.6
Dog parks	6.3	0.0	0.0	0.0	14.3	42.9
Outdoor swimming pools	4.7	0.0	0.0	3.3	0.0	28.6
Accessible hunting blinds, stands, areas for people with disabilities	4.7	0.0	0.0	3.3	28.6	0.0
Soccer fields	3.1	0.0	0.0	3.3	14.3	0.0
Skateboard parks	3.1	7.1	0.0	3.3	0.0	0.0
Football fields	1.6	0.0	0.0	3.3	0.0	0.0
Running tracks	1.6	0.0	0.0	3.3	0.0	0.0
Downhill ski areas	1.6	0.0	0.0	0.0	0.0	14.3
Snow boarding areas	1.6	0.0	0.0	0.0	0.0	14.3
Marinas	1.6	0.0	0.0	3.3	0.0	0.0
Rifle-pistol ranges	0.0	0.0	0.0	0.0	0.0	0.0

Table 69  
Correlation Coefficients of Facilities Provided by Counties by Density Change

Density change	0.1 - 5.0	5.1 - 50.0	50.1 +
Negative - 0.0	0.891	0.817	0.700
0.1 - 5.0		0.807	0.664
5.1 - 50.0			0.804

Table 70  
Facilities Provided by Counties by Density Change  
(percent providing facility)

Facility	Total	neg - 0.0	0.1 - 5.0	5.1 - 50.0	50.1 - high
Picnic shelters	79.7	89.5	64.3	90.0	100.0
Picnic grounds	79.7	89.5	64.3	90.0	100.0
Natural park areas/open spaces	73.4	63.2	67.9	90.0	100.0
Unpaved trails for walking, hiking, biking	65.6	57.9	57.1	90.0	85.7
Playgrounds	59.4	52.6	50.0	80.0	85.7
Paved trails for walking, hiking, skating, biking	57.8	57.9	39.3	80.0	100.0
Boat launching ramps	51.6	52.6	46.4	40.0	85.7
Swimming beaches	51.6	47.4	39.3	70.0	85.7
Primitive campgrounds	51.6	73.7	35.7	50.0	57.1
Cross-country ski trails	48.4	21.1	42.9	80.0	100.0
Modern campgrounds with electric hookups	48.4	68.4	32.1	40.0	71.4
Fishing piers	45.3	42.1	35.7	50.0	85.7
Shore fishing/ice fishing areas	45.3	52.6	32.1	40.0	85.7
Wildlife/nature observation areas	45.3	36.8	25.0	90.0	85.7
Nature/interpretive trails	42.2	21.1	28.6	80.0	100.0
Horseback trails	40.6	26.3	35.7	60.0	71.4
Snowmobile trails	32.8	31.6	42.9	20.0	14.3
Volleyball courts	31.3	21.1	17.9	50.0	85.7
Dispersed camping sites	31.3	47.4	21.4	20.0	42.9
Mountain bike trails	29.7	15.8	21.4	50.0	71.4
Nature/Interprtative centers	26.6	15.8	17.9	40.0	71.4
Big game hunting areas	18.8	10.5	28.6	20.0	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	17.2	10.5	32.1	0.0	0.0
Small game hunting areas	17.2	10.5	28.6	10.0	0.0
Softball fields	15.6	15.8	17.9	20.0	0.0
Waterfowl hunting areas	15.6	5.3	25.0	10.0	14.3
Hunter walking trails	14.1	10.5	21.4	10.0	0.0
Sledding hills	12.5	5.3	7.1	20.0	42.9
Archery ranges	10.9	5.3	3.6	0.0	71.4
Camper cabins	10.9	5.3	14.3	0.0	28.6
Baseball fields	9.4	15.8	10.7	0.0	0.0
Tennis courts	7.8	5.3	10.7	0.0	14.3
Ice rinks	7.8	5.3	7.1	10.0	14.3
Basketball courts	6.3	5.3	10.7	0.0	0.0
Golf courses	6.3	5.3	3.6	0.0	28.6
Dog parks	6.3	0.0	0.0	10.0	42.9
Outdoor swimming pools	4.7	5.3	0.0	0.0	28.6
Accessible hunting blinds, stands, areas for people with disabilities	4.7	0.0	3.6	20.0	0.0
Soccer fields	3.1	5.3	0.0	10.0	0.0
Skateboard parks	3.1	5.3	3.6	0.0	0.0
Football fields	1.6	5.3	0.0	0.0	0.0
Running tracks	1.6	5.3	0.0	0.0	0.0
Downhill ski areas	1.6	0.0	0.0	0.0	14.3
Snow boarding areas	1.6	0.0	0.0	0.0	14.3
Marinas	1.6	5.3	0.0	0.0	0.0
Rifle-pistol ranges	0.0	0.0	0.0	0.0	0.0

Table 71  
Correlation Coefficients of Facilities Provided by Counties by Population

Population	2,000-49,999	50,000-149,999	150,000-599,999	600,000+
<20,000	0.885	0.753	0.600	0.446
2,000-49,999		0.850	0.737	0.460
50,000-149,999			0.774	0.603
150,000-599,999				0.764

Table 72  
Facilities Provided by Counties by Population  
(percent providing facility)

Facility	total	< 20,000	20,000 - 49,999	50,000 - 149,999	150,000 - 599,999	600,000 +
Picnic shelters	79.7	70.4	79.2	100.0	100.0	100.0
Picnic grounds	79.7	70.4	79.2	100.0	100.0	100.0
Natural park areas/open spaces	73.4	59.3	75.0	100.0	100.0	100.0
Unpaved trails for walking, hiking, biking	65.6	55.6	66.7	75.0	100.0	100.0
Playgrounds	59.4	44.4	58.3	87.5	100.0	100.0
Paved trails for walking, hiking, skating, biking	57.8	51.9	41.7	100.0	100.0	100.0
Boat launching ramps	51.6	37.0	54.2	62.5	100.0	100.0
Swimming beaches	51.6	40.7	45.8	75.0	100.0	100.0
Primitive campgrounds	51.6	55.6	41.7	62.5	50.0	100.0
Cross-country ski trails	48.4	25.9	50.0	87.5	100.0	100.0
Modern campgrounds with electric hookups	48.4	48.1	37.5	62.5	75.0	100.0
Fishing piers	45.3	40.7	29.2	75.0	100.0	100.0
Shore fishing/ice fishing areas	45.3	44.4	29.2	62.5	100.0	100.0
Wildlife/nature observation areas	45.3	29.6	41.7	75.0	100.0	100.0
Nature/interpretive trails	42.2	18.5	41.7	87.5	100.0	100.0
Horseback trails	40.6	25.9	37.5	75.0	75.0	100.0
Snowmobile trails	32.8	48.1	25.0	12.5	0.0	100.0
Volleyball courts	31.3	14.8	29.2	50.0	100.0	100.0
Dispersed camping sites	31.3	37.0	20.8	37.5	25.0	100.0
Mountain bike trails	29.7	14.8	29.2	37.5	100.0	100.0
Nature/Interprtative centers	26.6	11.1	16.7	75.0	75.0	100.0
Big game hunting areas	18.8	18.5	25.0	12.5	0.0	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	17.2	25.9	16.7	0.0	0.0	0.0
Small game hunting areas	17.2	18.5	25.0	0.0	0.0	0.0
Softball fields	15.6	18.5	20.8	0.0	0.0	0.0
Waterfowl hunting areas	15.6	14.8	20.8	0.0	25.0	0.0
Hunter walking trails	14.1	11.1	25.0	0.0	0.0	0.0
Sledding hills	12.5	0.0	16.7	25.0	25.0	100.0
Archery ranges	10.9	0.0	8.3	0.0	100.0	100.0
Camper cabins	10.9	11.1	8.3	0.0	25.0	100.0
Baseball fields	9.4	11.1	12.5	0.0	0.0	0.0
Tennis courts	7.8	3.7	8.3	25.0	0.0	0.0
Ice rinks	7.8	3.7	12.5	0.0	25.0	0.0
Basketball courts	6.3	3.7	8.3	12.5	0.0	0.0
Golf courses	6.3	3.7	4.2	0.0	25.0	100.0
Dog parks	6.3	0.0	4.2	0.0	50.0	100.0
Outdoor swimming pools	4.7	3.7	0.0	0.0	25.0	100.0
Accessible hunting blinds, stands, areas for people with disabilities	4.7	0.0	8.3	12.5	0.0	0.0
Soccer fields	3.1	0.0	8.3	0.0	0.0	0.0
Skateboard parks	3.1	3.7	4.2	0.0	0.0	0.0
Football fields	1.6	0.0	4.2	0.0	0.0	0.0
Running tracks	1.6	0.0	4.2	0.0	0.0	0.0
Downhill ski areas	1.6	0.0	0.0	0.0	0.0	100.0
Snow boarding areas	1.6	0.0	0.0	0.0	0.0	100.0
Marinas	1.6	3.7	0.0	0.0	0.0	0.0
Rifle-pistol ranges	0.0	0.0	0.0	0.0	0.0	0.0

Table 73  
Correlation Coefficients of Facilities Provided by Counties by Income

Income	\$35,000-\$39,999	\$40,000-\$49,999	\$50,000+
\$30,000-\$34,000	0.848	0.825	0.699
\$35,000-\$39,999		0.830	0.757
\$40,000-\$49,999			0.797

Table 74  
Facilities Provided by Counties by Income  
(percent providing facility)

Facility	Total	\$30,000 - \$34,999	\$35,000 - \$39,999	\$40,000 - \$49,999	\$50,000 +
Picnic shelters	79.7	78.9	81.0	64.3	100.0
Picnic grounds	79.7	78.9	81.0	64.3	100.0
Natural park areas/open spaces	73.4	68.4	66.7	71.4	100.0
Unpaved trails for walking, hiking, biking	65.6	68.4	52.4	64.3	90.0
Playgrounds	59.4	57.9	52.4	57.1	80.0
Paved trails for walking, hiking, skating, biking	57.8	47.4	57.1	42.9	100.0
Boat launching ramps	51.6	63.2	38.1	35.7	80.0
Swimming beaches	51.6	52.6	28.6	64.3	80.0
Primitive campgrounds	51.6	63.2	52.4	28.6	60.0
Cross-country ski trails	48.4	31.6	38.1	50.0	100.0
Modern campgrounds with electric hookups	48.4	57.9	42.9	28.6	70.0
Fishing piers	45.3	47.4	23.8	57.1	70.0
Shore fishing/ice fishing areas	45.3	57.9	23.8	42.9	70.0
Wildlife/nature observation areas	45.3	31.6	38.1	42.9	90.0
Nature/interpretive trails	42.2	21.1	33.3	42.9	100.0
Horseback trails	40.6	31.6	28.6	35.7	90.0
Snowmobile trails	32.8	52.6	28.6	28.6	10.0
Volleyball courts	31.3	15.8	23.8	28.6	80.0
Dispersed camping sites	31.3	47.4	28.6	7.1	40.0
Mountain bike trails	29.7	26.3	14.3	28.6	70.0
Nature/Interprative centers	26.6	21.1	9.5	35.7	60.0
Big game hunting areas	18.8	26.3	14.3	14.3	20.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	17.2	31.6	9.5	21.4	0.0
Small game hunting areas	17.2	26.3	14.3	14.3	10.0
Softball fields	15.6	15.8	19.0	21.4	0.0
Waterfowl hunting areas	15.6	26.3	4.8	14.3	20.0
Hunter walking trails	14.1	21.1	14.3	7.1	10.0
Sledding hills	12.5	0.0	14.3	14.3	30.0
Archery ranges	10.9	0.0	4.8	14.3	40.0
Camper cabins	10.9	10.5	9.5	7.1	20.0
Baseball fields	9.4	10.5	9.5	14.3	0.0
Tennis courts	7.8	0.0	14.3	7.1	10.0
Ice rinks	7.8	0.0	4.8	28.6	0.0
Basketball courts	6.3	0.0	14.3	7.1	0.0
Golf courses	6.3	5.3	4.8	7.1	10.0
Dog parks	6.3	0.0	0.0	7.1	30.0
Outdoor swimming pools	4.7	5.3	0.0	7.1	10.0
Accessible hunting blinds, stands, areas for people with disabilities	4.7	0.0	4.8	0.0	20.0
Soccer fields	3.1	0.0	4.8	0.0	10.0
Skateboard parks	3.1	0.0	9.5	0.0	0.0
Football fields	1.6	0.0	4.8	0.0	0.0
Running tracks	1.6	0.0	4.8	0.0	0.0
Downhill ski areas	1.6	0.0	0.0	0.0	10.0
Snow boarding areas	1.6	0.0	0.0	0.0	10.0
Marinas	1.6	5.3	0.0	0.0	0.0
Rifle-pistol ranges	0.0	0.0	0.0	0.0	0.0

Table 75  
Facilities Needed Now by Counties  
by Facility Provided by Counties  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Provide</b>	<b>Don't provide</b>
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	54.5	54.5	54.5
Paved trails for walking, hiking, skating, biking	51.5	61.8	40.6
Mountain bike trails	43.8	50.0	41.3
Camper cabins	38.7	71.4	34.5
Nature/interpretive trails	37.5	44.4	32.4
Modern campgrounds with electric hookups	35.9	46.7	26.5
Horseback trails	35.9	32.0	38.5
Unpaved trails for walking, hiking, biking	34.8	32.5	38.5
Fishing piers	31.8	31.0	32.4
Accessible hunting blinds, stands, areas for people with disabilities	29.3	33.3	29.1
Skateboard parks	28.3	100.0	27.1
Dispersed camping sites	24.2	35.0	19.0
Dog parks	24.2	25.0	24.2
Cross-country ski trails	21.9	16.1	27.3
Small game hunting areas	21.3	10.0	23.5
Nature/Interprtative centers	21.2	23.5	20.4
Outdoor swimming pools	21.0	0.0	22.0
Shore fishing/ice fishing areas	20.9	24.1	18.4
Swimming beaches	20.3	18.2	22.6
Primitive campgrounds	20.0	28.1	12.1
Playgrounds	19.7	22.2	16.7
Archery ranges	19.7	16.7	20.0
Big game hunting areas	19.7	18.2	20.0
Natural park areas/open spaces	18.2	13.3	28.6
Picnic shelters	17.9	18.4	16.7
Boat launching ramps	17.9	21.2	14.7
Downhill ski areas	17.7	100.0	16.4
Volleyball courts	16.4	35.3	9.1
Basketball courts	16.1	66.7	13.6
Sledding hills	16.1	28.6	14.5
Softball fields	16.1	62.5	9.3
Soccer fields	16.1	0.0	16.4
Snow boarding areas	16.1	100.0	14.8
Waterfowl hunting areas	14.8	11.1	15.4
Wildlife/nature observation areas	13.6	10.7	15.8
Hunter walking trails	13.1	12.5	13.2
Marinas	12.3	0.0	12.5
Picnic grounds	11.9	10.2	16.7
Rifle-pistol ranges	11.5	0.0	11.5
Baseball fields	11.3	20.0	10.5
Ice rinks	9.8	0.0	10.5
Tennis courts	9.7	25.0	8.6
Golf courses	8.1	33.3	6.8
Snowmobile trails	7.8	10.5	6.7
Football fields	6.5	0.0	6.5
Running tracks	4.8	0.0	4.8

Table 76  
 Facilities Needed Now Plus Facilities Needed Within Five Years by Counties  
 by Facilities Provided by Counties  
 (percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Provide</b>	<b>Don't provide</b>
Paved trails for walking, hiking, skating, biking	68.2	79.4	56.2
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	68.1	63.6	69.0
Modern campgrounds with electric hookups	59.3	73.4	47.1
Unpaved trails for walking, hiking, biking	56.0	60.0	50.0
Mountain bike trails	53.2	72.2	45.6
Nature/interpretive trails	53.1	66.6	43.2
Horseback trails	50.0	56.0	46.2
Cross-country ski trails	50.0	54.8	45.5
Dispersed camping sites	46.8	75.0	33.3
Fishing piers	45.4	48.2	43.2
Camper cabins	45.2	85.7	40.0
Accessible hunting blinds, stands, areas for people with disabilities	44.8	66.6	43.6
Natural park areas/open spaces	44.0	46.6	38.1
Picnic shelters	43.3	49.0	27.8
Primitive campgrounds	43.1	56.2	30.3
Skateboard parks	41.6	100.0	40.7
Playgrounds	40.9	55.5	23.4
Swimming beaches	39.1	39.4	38.7
Nature/Interprative centers	37.9	35.3	38.8
Wildlife/nature observation areas	37.8	50.0	29.0
Picnic grounds	37.3	40.8	27.8
Dog parks	36.3	100.0	32.3
Archery ranges	34.5	66.7	30.9
Big game hunting areas	32.8	36.4	32.0
Small game hunting areas	31.1	30.0	31.3
Shore fishing/ice fishing areas	29.9	27.5	31.6
Snowmobile trails	29.7	36.8	26.7
Volleyball courts	29.5	47.1	22.7
Basketball courts	29.0	66.7	27.2
Boat launching ramps	28.3	36.4	20.6
Hunter walking trails	27.9	50.0	24.5
Outdoor swimming pools	27.5	0.0	28.8
Waterfowl hunting areas	26.3	22.2	26.9
Rifle-pistol ranges	24.6	0.0	24.6
Sledding hills	22.6	57.2	18.1
Ice rinks	21.3	0.0	22.8
Marinas	21.1	0.0	21.4
Tennis courts	21.0	25.0	20.7
Downhill ski areas	20.9	100.0	19.7
Softball fields	20.9	62.5	14.9
Soccer fields	20.9	0.0	21.3
Snow boarding areas	20.9	100.0	19.7
Baseball fields	16.1	20.0	15.8
Golf courses	12.9	33.3	11.9
Football fields	9.7	0.0	9.7
Running tracks	8.0	0.0	8.0



## Facility Needs of School Districts

The most appropriate and knowledgeable school district officials were asked about the “adequacy of facility supply to school district residents”. It is important to note that respondents were *not* only asked to rate adequacy for facilities they currently provide. Rather, they were asked to think broadly of the facility needs in their local communities, whether or not they are specifically involved with the provision of those facilities.

To examine how facility needs varied across the state and by standard demographic breakdowns, school district data were looked at by region, enrollment change 1993-94 to 2003-04, 2003-04 enrollment, and percent enrollment eligible for subsidized lunches.

### Analysis by Region

Regions used for this analysis are the four DNR regions with the Central DNR region broken into the seven county Twin Cities metropolitan region (Metro) and the balance as the Central region (Figure 1, page 26). The Metro region contains half of the Minnesota population and is covered by the regional governmental agency (Metropolitan Council) that has outdoor recreation functions.

When looked at by region there was some commonality among the Northwest, South, and Central regions (Table 77). This was similar to the results for cities which showed some commonality among the same regions.

Table 77  
Correlation Coefficients of Facilities Needed Now by School Districts  
by Region

Region	Northeast	South	Central	Metro
Northwest	0.398	0.795	0.778	0.376
Northeast		0.261	0.255	0.132
South			0.731	0.321
Central				0.427

There was some commonality among regions in the higher and lower ranked facilities (Table 78). All of the regions except Central region ranked soccer fields in their top three facilities. No other facility was ranked in the top three by more than two regions.

Facilities ranked lower by three or more regions included: picnic grounds—Northwest, Northeast, South, Central; golf courses—Northwest, Northeast, Central; picnic shelters—Northwest, Northeast, South; and snowmobile trails—Northwest, Northeast, Metro.

In general the Metro region saw the smallest need for facilities. When looking at facilities needed now, less than 10 percent of the 39 reporting Metro school districts saw a current need for 10 of the 30 facilities.

As with the overall ranking, there was some commonality among regions when looking at facilities by facility category (Table 79).

Table 78  
Facilities Needed Now by School Districts by Region  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Northwest</b>	<b>Northeast</b>	<b>South</b>	<b>Central</b>	<b>Metro</b>
Soccer fields	50.5	45.7	45.0	48.1	37.0	71.8
Basketball courts	43.1	40.0	35.0	40.7	48.1	51.3
Paved trails for walking, hiking, skating, biking	42.1	45.7	25.0	56.8	37.0	20.5
Volleyball courts	39.1	40.0	35.0	43.2	37.0	33.3
Ice rinks	37.6	48.6	20.0	35.8	51.9	30.8
Unpaved trails for walking, hiking, biking	36.6	42.9	20.0	51.9	33.3	10.3
Skateboard parks	35.6	37.1	50.0	37.0	48.1	15.4
Nature/interpretive trails	34.7	40.0	25.0	44.4	40.7	10.3
Mountain bike trails	32.7	34.3	30.0	42.0	37.0	10.3
Tennis courts	31.7	34.3	40.0	34.6	29.6	20.5
Cross-country ski trails	31.7	31.4	20.0	40.7	44.4	10.3
Horseback trails	30.7	31.4	40.0	38.3	37.0	5.1
Baseball fields	30.2	20.0	20.0	21.0	33.3	61.5
Softball fields	29.2	25.7	30.0	18.5	33.3	51.3
Nature/Interpretive centers	28.2	25.7	35.0	34.6	33.3	10.3
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	22.9	25.0	38.3	29.6	12.8
Dog parks	26.7	14.3	35.0	35.8	29.6	12.8
Sledding hills	26.2	31.4	35.0	27.2	33.3	10.3
Snow boarding areas	25.7	22.9	30.0	30.9	37.0	7.7
Running tracks	24.3	31.4	45.0	27.2	14.8	7.7
Wildlife/nature observation areas	23.8	14.3	25.0	29.6	25.9	17.9
Downhill ski areas	23.3	22.9	25.0	28.4	33.3	5.1
Natural park areas/open spaces	23.3	17.1	25.0	30.9	22.2	12.8
Archery ranges	22.8	25.7	40.0	27.2	25.9	0.0
Snowmobile trails	19.3	11.4	20.0	28.4	22.2	5.1
Football fields	18.8	5.7	25.0	13.6	25.9	33.3
Playgrounds	13.4	14.3	25.0	16.0	7.4	5.1
Picnic shelters	12.4	11.4	20.0	11.1	18.5	7.7
Golf courses	11.4	8.6	5.0	16.0	11.1	7.7
Picnic grounds	9.9	11.4	20.0	7.4	11.1	7.7

Table 79  
Facilities Needed Now by School Districts by Category by Region  
(percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	50.5	45.7	45.0	48.1	37.0	71.8
Basketball courts	43.1	40.0	35.0	40.7	48.1	51.3
Volleyball courts	39.1	40.0	35.0	43.2	37.0	33.3
Ice rinks	37.6	48.6	20.0	35.8	51.9	30.8
Skateboard parks	35.6	37.1	50.0	37.0	48.1	15.4
Tennis courts	31.7	34.3	40.0	34.6	29.6	20.5
Baseball fields	30.2	20.0	20.0	21.0	33.3	61.5
Softball fields	29.2	25.7	30.0	18.5	33.3	51.3
Sledding hills	26.2	31.4	35.0	27.2	33.3	10.3
Snow boarding areas	25.7	22.9	30.0	30.9	37.0	7.7
Running tracks	24.3	31.4	45.0	27.2	14.8	7.7
Downhill ski areas	23.3	22.9	25.0	28.4	33.3	5.1
Archery ranges	22.8	25.7	40.0	27.2	25.9	0.0
Football fields	18.8	5.7	25.0	13.6	25.9	33.3
Golf courses	11.4	8.6	5.0	16.0	11.1	7.7
<b>Day Use Facilities</b>						
Nature/Interpretive centers	28.2	25.7	35.0	34.6	33.3	10.3
Dog parks	26.7	14.3	35.0	35.8	29.6	12.8
Wildlife/nature observation areas	23.8	14.3	25.0	29.6	25.9	17.9
Natural park areas/open spaces	23.3	17.1	25.0	30.9	22.2	12.8
Playgrounds	13.4	14.3	25.0	16.0	7.4	5.1
Picnic shelters	12.4	11.4	20.0	11.1	18.5	7.7
Picnic grounds	9.9	11.4	20.0	7.4	11.1	7.7
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	42.1	45.7	25.0	56.8	37.0	20.5
Unpaved trails for walking, hiking, biking	36.6	42.9	20.0	51.9	33.3	10.3
Nature/interpretive trails	34.7	40.0	25.0	44.4	40.7	10.3
Mountain bike trails	32.7	34.3	30.0	42.0	37.0	10.3
Cross-country ski trails	31.7	31.4	20.0	40.7	44.4	10.3
Horseback trails	30.7	31.4	40.0	38.3	37.0	5.1
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	22.9	25.0	38.3	29.6	12.8
Snowmobile trails	19.3	11.4	20.0	28.4	22.2	5.1

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by region was pretty good, except for the Northeast and Central regions—Northwest = 0.921, Northeast = 0.599, South = 0.973, Central = 0.695, Metro = 0.844. As with facilities needed now, there was some commonality among the regions in ranking facilities needed now plus facilities needed within five years (Table 80).

Table 80  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five years  
by School Districts by Region

Region	Northeast	South	Central	Metro
Northwest	0.544	0.789	0.707	0.320
Northeast		0.487	0.366	0.269
South			0.532	0.200
Central				0.691

There was some commonality among regions in the higher and lower ranked facilities (Table 81). Soccer fields was ranked in the top three by all five regions. No other facility was ranked in the top three by more than two regions. Golf courses was ranked in the bottom three by three regions. No other facility was ranked in the bottom three by more than two regions.

When looked at by facility category, there was some agreement among regions in the higher and lower ranked facilities within each facility category (Table 82).

Table 81  
Facilities Needed Now Plus Facilities Needed Within Five Years by School Districts by Region  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Northwest</b>	<b>Northeast</b>	<b>South</b>	<b>Central</b>	<b>Metro</b>
Soccer fields	63.7	52.6	75.0	60.0	58.6	80.0
Paved trails for walking, hiking, skating, biking	53.3	50.0	40.0	67.1	48.3	37.5
Basketball courts	51.4	44.7	50.0	49.4	55.2	60.0
Ice rinks	47.2	60.5	40.0	41.2	62.1	40.0
Volleyball courts	46.2	42.1	40.0	47.1	44.8	52.5
Unpaved trails for walking, hiking, biking	45.3	55.3	30.0	57.6	44.8	17.5
Softball fields	42.5	31.6	40.0	30.6	58.6	67.5
Tennis courts	42.0	36.8	45.0	43.5	51.7	35.0
Nature/interpretive trails	41.0	42.1	45.0	49.4	41.4	20.0
Cross-country ski trails	40.6	42.1	40.0	45.9	55.2	17.5
Skateboard parks	39.2	36.8	55.0	42.4	48.3	20.0
Baseball fields	38.7	23.7	25.0	27.1	55.2	72.5
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	28.9	45.0	45.9	34.5	15.0
Mountain bike trails	34.9	34.2	35.0	44.7	34.5	15.0
Nature/Interprtative centers	34.4	34.2	45.0	38.8	37.9	17.5
Horseback trails	33.0	34.2	40.0	40.0	34.5	12.5
Wildlife/nature observation areas	32.5	28.9	35.0	36.5	34.5	25.0
Playgrounds	32.1	31.6	55.0	27.1	41.4	25.0
Natural park areas/open spaces	32.1	23.7	40.0	35.3	31.0	30.0
Football fields	30.2	18.4	30.0	18.8	41.4	57.5
Running tracks	29.7	31.6	55.0	31.8	27.6	12.5
Sledding hills	28.3	34.2	35.0	29.4	34.5	12.5
Dog parks	28.3	13.2	35.0	37.6	31.0	17.5
Snow boarding areas	27.8	26.3	30.0	34.1	37.9	7.5
Picnic shelters	25.0	26.3	35.0	20.0	31.0	25.0
Downhill ski areas	24.1	26.3	25.0	29.4	31.0	5.0
Snowmobile trails	24.1	18.4	30.0	30.6	27.6	10.0
Archery ranges	23.6	23.7	40.0	29.4	27.6	0.0
Picnic grounds	22.2	23.7	35.0	18.8	24.1	20.0
Golf courses	17.0	15.8	5.0	22.4	13.8	15.0

Table 82  
 Facilities Needed Now Plus Facilities Needed Within Five Years  
 by School Districts by Category by Region  
 (percent indicating need)

Facility	Total	Northwest	Northeast	South	Central	Metro
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	63.7	52.6	75.0	60.0	58.6	80.0
Basketball courts	51.4	44.7	50.0	49.4	55.2	60.0
Ice rinks	47.2	60.5	40.0	41.2	62.1	40.0
Volleyball courts	46.2	42.1	40.0	47.1	44.8	52.5
Softball fields	42.5	31.6	40.0	30.6	58.6	67.5
Tennis courts	42.0	36.8	45.0	43.5	51.7	35.0
Skateboard parks	39.2	36.8	55.0	42.4	48.3	20.0
Baseball fields	38.7	23.7	25.0	27.1	55.2	72.5
Football fields	30.2	18.4	30.0	18.8	41.4	57.5
Running tracks	29.7	31.6	55.0	31.8	27.6	12.5
Sledding hills	28.3	34.2	35.0	29.4	34.5	12.5
Snow boarding areas	27.8	26.3	30.0	34.1	37.9	7.5
Downhill ski areas	24.1	26.3	25.0	29.4	31.0	5.0
Archery ranges	23.6	23.7	40.0	29.4	27.6	0.0
Golf courses	17.0	15.8	5.0	22.4	13.8	15.0
<b>Day Use Facilities</b>						
Nature/Interpretive centers	34.4	34.2	45.0	38.8	37.9	17.5
Wildlife/nature observation areas	32.5	28.9	35.0	36.5	34.5	25.0
Playgrounds	32.1	31.6	55.0	27.1	41.4	25.0
Natural park areas/open spaces	32.1	23.7	40.0	35.3	31.0	30.0
Dog parks	28.3	13.2	35.0	37.6	31.0	17.5
Picnic shelters	25.0	26.3	35.0	20.0	31.0	25.0
Picnic grounds	22.2	23.7	35.0	18.8	24.1	20.0
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	53.3	50.0	40.0	67.1	48.3	37.5
Unpaved trails for walking, hiking, biking	45.3	55.3	30.0	57.6	44.8	17.5
Nature/interpretive trails	41.0	42.1	45.0	49.4	41.4	20.0
Cross-country ski trails	40.6	42.1	40.0	45.9	55.2	17.5
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	28.9	45.0	45.9	34.5	15.0
Mountain bike trails	34.9	34.2	35.0	44.7	34.5	15.0
Horseback trails	33.0	34.2	40.0	40.0	34.5	12.5
Snowmobile trails	24.1	18.4	30.0	30.6	27.6	10.0

### Analysis by Enrollment change

Enrollment change is the percent change in enrollment from the 1993-94 school year to the 2003-04 school year. Enrollment change ranged from -73 percent to +110 percent. Negative numbers indicate a reduction in enrollment. Almost two-thirds (63 percent) of the responding school districts showed a reduction in enrollment. Most of these school districts were in the Northwest, Northeast and South regions.

There was some correlation among school districts when the data were looked at by enrollment change (Table 83).

Table 83  
Correlation Coefficients of Facilities Needed Now by School Districts  
by Enrollment Change

Enrollment change	-13.9% to 0.0%	0.1% to 15.0%	15.1% or more
-14.0% or less	0.680	0.575	0.539
-13.9% to 0.0%		0.785	0.704
0.1% to 15.0%			0.818

There was some agreement among enrollment change classes in the higher and lower ranked facilities (Table 84). The three higher classes ranked soccer fields high. All of the classes ranked picnic grounds low. All of the classes except 15.1% or more ranked picnic shelters low.

All of the highest ranked facilities for the three higher enrollment change classes were in the Outdoor Sport Courts & Fields category. All of the higher ranked facilities for the class showing the greatest enrollment decline were in the Trails category.

There was a lot of commonality among the enrollment change classes within facility category (Table 85).

Table 84  
Facilities Needed Now by School Districts by Enrollment Change  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>-14.0% or less</b>	<b>-13.9% to 0.0%</b>	<b>0.1% to 15.0%</b>	<b>15.1% or more</b>
Soccer fields	50.5	44.1	54.3	51.3	52.9
Basketball courts	43.1	42.4	37.1	48.7	50.0
Paved trails for walking, hiking, skating, biking	42.1	55.9	37.1	38.5	32.4
Volleyball courts	39.1	42.4	37.1	35.9	41.2
Ice rinks	37.6	45.8	30.0	33.3	44.1
Unpaved trails for walking, hiking, biking	36.6	50.8	32.9	33.3	23.5
Skateboard parks	35.6	39.0	38.6	30.8	29.4
Nature/interpretive trails	34.7	47.5	30.0	23.1	35.3
Mountain bike trails	32.7	47.5	27.1	25.6	26.5
Tennis courts	31.7	28.8	38.6	25.6	29.4
Cross-country ski trails	31.7	42.4	25.7	23.1	35.3
Horseback trails	30.7	37.3	31.4	23.1	26.5
Baseball fields	30.2	22.0	24.3	41.0	44.1
Softball fields	29.2	23.7	24.3	38.5	38.2
Nature/Interprtative centers	28.2	40.7	25.7	20.5	20.6
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	35.6	24.3	20.5	32.4
Dog parks	26.7	35.6	21.4	25.6	23.5
Sledding hills	26.2	33.9	22.9	20.5	26.5
Snow boarding areas	25.7	33.9	22.9	17.9	26.5
Running tracks	24.3	23.7	30.0	15.4	23.5
Wildlife/nature observation areas	23.8	33.9	20.0	12.8	26.5
Downhill ski areas	23.3	33.9	18.6	15.4	23.5
Natural park areas/open spaces	23.3	33.9	18.6	15.4	23.5
Archery ranges	22.8	32.2	24.3	15.4	11.8
Snowmobile trails	19.3	33.9	11.4	10.3	20.6
Football fields	18.8	20.3	14.3	23.1	20.6
Playgrounds	13.4	25.4	10.0	7.7	5.9
Picnic shelters	12.4	20.3	7.1	5.1	17.6
Golf courses	11.4	10.2	12.9	10.3	11.8
Picnic grounds	9.9	15.3	7.1	5.1	11.8



Table 85  
Facilities Needed Now by School Districts by Category by Enrollment Change  
(percent indicating need)

Facility	Total	-14.0% or less	-13.9% to 0.0%	0.1% to 15.0%	15.1% or more
<b>Outdoor Sport Courts &amp; Fields</b>					
Soccer fields	50.5	44.1	54.3	51.3	52.9
Basketball courts	43.1	42.4	37.1	48.7	50.0
Volleyball courts	39.1	42.4	37.1	35.9	41.2
Ice rinks	37.6	45.8	30.0	33.3	44.1
Skateboard parks	35.6	39.0	38.6	30.8	29.4
Tennis courts	31.7	28.8	38.6	25.6	29.4
Baseball fields	30.2	22.0	24.3	41.0	44.1
Softball fields	29.2	23.7	24.3	38.5	38.2
Sledding hills	26.2	33.9	22.9	20.5	26.5
Snow boarding areas	25.7	33.9	22.9	17.9	26.5
Running tracks	24.3	23.7	30.0	15.4	23.5
Downhill ski areas	23.3	33.9	18.6	15.4	23.5
Archery ranges	22.8	32.2	24.3	15.4	11.8
Football fields	18.8	20.3	14.3	23.1	20.6
Golf courses	11.4	10.2	12.9	10.3	11.8
<b>Day Use Facilities</b>					
Nature/Interpretive centers	28.2	40.7	25.7	20.5	20.6
Dog parks	26.7	35.6	21.4	25.6	23.5
Wildlife/nature observation areas	23.8	33.9	20.0	12.8	26.5
Natural park areas/open spaces	23.3	33.9	18.6	15.4	23.5
Playgrounds	13.4	25.4	10.0	7.7	5.9
Picnic shelters	12.4	20.3	7.1	5.1	17.6
Picnic grounds	9.9	15.3	7.1	5.1	11.8
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	42.1	55.9	37.1	38.5	32.4
Unpaved trails for walking, hiking, biking	36.6	50.8	32.9	33.3	23.5
Nature/interpretive trails	34.7	47.5	30.0	23.1	35.3
Mountain bike trails	32.7	47.5	27.1	25.6	26.5
Cross-country ski trails	31.7	42.4	25.7	23.1	35.3
Horseback trails	30.7	37.3	31.4	23.1	26.5
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	35.6	24.3	20.5	32.4
Snowmobile trails	19.3	33.9	11.4	10.3	20.6

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by enrollment change classes is very good, except for the highest enrollment change class— -14.0% or less = 0.935, -13.9% to 0.0% = 0.936, 0.1% to 15.0% = 0.845, 15.1% or more = 0.699. The correlation among enrollment change classes for facilities needed now plus facilities needed within five years was not very high (Table 86).

Table 86  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five years  
by School Districts by Enrollment Change

Enrollment change	-13.9% to 0.0%	0.1% to 15.0%	15.1% or more
-14.0% or less	0.651	0.309	0.240
-13.9% to 0.0%		0.644	0.613
0.1% to 15.0%			0.843

There was some commonality among enrollment change classes in the higher ranked facilities (Table 87). Three of the four classes ranked soccer fields high. All four classes ranked golf courses low.

As with the overall rankings, there was some commonality among enrollment change classes within facility category (Table 88).

Table 87  
Facilities Needed Now Plus Facilities Needed Within Five Years  
by School Districts by Enrollment Change  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>-14.0% or less</b>	<b>-13.9% to 0.00%</b>	<b>0.1% to 15.0%</b>	<b>15.1% or more</b>
Soccer fields	63.7	59.0	69.9	51.2	74.3
Paved trails for walking, hiking, skating, biking	53.3	63.9	45.2	44.2	62.9
Basketball courts	51.4	44.3	45.2	65.1	60.0
Ice rinks	47.2	55.7	43.8	41.9	45.7
Volleyball courts	46.2	44.3	41.1	48.8	57.1
Unpaved trails for walking, hiking, biking	45.3	60.7	42.5	37.2	34.3
Softball fields	42.5	27.9	30.1	62.8	68.6
Tennis courts	42.0	34.4	45.2	34.9	57.1
Nature/interpretive trails	41.0	49.2	39.7	32.6	40.0
Cross-country ski trails	40.6	54.1	32.9	30.2	45.7
Skateboard parks	39.2	41.0	39.7	39.5	34.3
Baseball fields	38.7	23.0	28.8	53.5	68.6
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	47.5	34.2	20.9	34.3
Mountain bike trails	34.9	49.2	31.5	25.6	28.6
Nature/Interprative centers	34.4	45.9	30.1	30.2	28.6
Horseback trails	33.0	39.3	35.6	23.3	28.6
Wildlife/nature observation areas	32.5	44.3	27.4	23.3	34.3
Playgrounds	32.1	39.3	24.7	30.2	37.1
Natural park areas/open spaces	32.1	42.6	23.3	25.6	40.0
Football fields	30.2	26.2	20.5	37.2	48.6
Running tracks	29.7	29.5	34.2	20.9	31.4
Sledding hills	28.3	37.7	21.9	25.6	28.6
Dog parks	28.3	39.3	21.9	25.6	25.7
Snow boarding areas	27.8	37.7	21.9	25.6	25.7
Picnic shelters	25.0	29.5	15.1	23.3	40.0
Downhill ski areas	24.1	37.7	17.8	16.3	22.9
Snowmobile trails	24.1	39.3	19.2	14.0	20.0
Archery ranges	23.6	34.4	23.3	16.3	14.3
Picnic grounds	22.2	29.5	13.7	23.3	25.7
Golf courses	17.0	18.0	16.4	14.0	20.0

Table 88  
 Facilities Needed Now Plus Facilities Needed Within Five Years  
 by School Districts by Category by Enrollment Change  
 (percent indicating need)

Facility	Total	-14.0% or less	-13.9% to 0.0%	0.1% to 15.0%	15.1% or more
<b>Outdoor Sport Courts &amp; Fields</b>					
Soccer fields	63.7	59.0	69.9	51.2	74.3
Basketball courts	51.4	44.3	45.2	65.1	60.0
Ice rinks	47.2	55.7	43.8	41.9	45.7
Volleyball courts	46.2	44.3	41.1	48.8	57.1
Softball fields	42.5	27.9	30.1	62.8	68.6
Tennis courts	42.0	34.4	45.2	34.9	57.1
Skateboard parks	39.2	41.0	39.7	39.5	34.3
Baseball fields	38.7	23.0	28.8	53.5	68.6
Football fields	30.2	26.2	20.5	37.2	48.6
Running tracks	29.7	29.5	34.2	20.9	31.4
Sledding hills	28.3	37.7	21.9	25.6	28.6
Snow boarding areas	27.8	37.7	21.9	25.6	25.7
Downhill ski areas	24.1	37.7	17.8	16.3	22.9
Archery ranges	23.6	34.4	23.3	16.3	14.3
Golf courses	17.0	18.0	16.4	14.0	20.0
<b>Day Use Facilities</b>					
Nature/Interprative centers	34.4	45.9	30.1	30.2	28.6
Wildlife/nature observation areas	32.5	44.3	27.4	23.3	34.3
Playgrounds	32.1	39.3	24.7	30.2	37.1
Natural park areas/open spaces	32.1	42.6	23.3	25.6	40.0
Dog parks	28.3	39.3	21.9	25.6	25.7
Picnic shelters	25.0	29.5	15.1	23.3	40.0
Picnic grounds	22.2	29.5	13.7	23.3	25.7
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	53.3	63.9	45.2	44.2	62.9
Unpaved trails for walking, hiking, biking	45.3	60.7	42.5	37.2	34.3
Nature/interpretive trails	41.0	49.2	39.7	32.6	40.0
Cross-country ski trails	40.6	54.1	32.9	30.2	45.7
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	47.5	34.2	20.9	34.3
Mountain bike trails	34.9	49.2	31.5	25.6	28.6
Horseback trails	33.0	39.3	35.6	23.3	28.6
Snowmobile trails	24.1	39.3	19.2	14.0	20.0

## Analysis by Enrollment

Enrollment figures used for this analysis are from the 2003-04 school year.

There was little correlation when school district data were examined by enrollment (Table 89). The small number of school districts in the 20,001+ category (3) resulted in numerous ties when looking at the higher ranked and lower ranked facilities.

Table 89  
Correlation Coefficients of Facilities Needed Now by School Districts  
by Enrollment

Enrollment	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001+
650 or less	0.828	0.539	0.207	-0.060
651 - 1,200		0.766	0.255	-0.035
1,201 - 2,700			0.478	0.236
2,701 - 20,000				0.738

The three highest enrollment classes listed soccer fields and basketball courts in their top three facilities (Table 90). No other facility was ranked in the top three by more than two enrollment classes.

All of the highest ranked facilities for the three higher enrollment classes were in the Outdoor Sport Courts & Fields category. All of the higher ranked facilities for the two lowest enrollment classes were in the Trails category.

All five enrollment classes ranked picnic grounds lower. Other facilities ranked lower by three or more enrollment classes included golf courses, picnic shelters, and playgrounds.

None of the three school districts with enrollment of 20,001+ saw a current need for 23 of the 30 facilities. These school districts saw no current need for any Trail or Day Use facilities.

As with the overall rankings, there was little commonality in rankings when looking at facility categories (Table 91).

Table 90  
Facilities Needed Now by School Districts by Enrollment  
(percent indicating need)

Facility	Total	650 or less	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001 or more
Soccer fields	50.5	45.7	43.6	53.2	58.8	66.7
Basketball courts	43.1	34.8	36.4	48.9	52.9	33.3
Paved trails for walking, hiking, skating, biking	42.1	58.7	52.7	36.2	23.5	0.0
Volleyball courts	39.1	37.0	43.6	42.6	33.3	33.3
Ice rinks	37.6	39.1	38.2	31.9	41.2	33.3
Unpaved trails for walking, hiking, biking	36.6	50.0	56.4	25.5	15.7	0.0
Skateboard parks	35.6	47.8	38.2	36.2	23.5	0.0
Nature/interpretive trails	34.7	56.5	47.3	29.8	7.8	0.0
Mountain bike trails	32.7	43.5	47.3	31.9	9.8	0.0
Tennis courts	31.7	37.0	36.4	36.2	19.6	0.0
Cross-country ski trails	31.7	47.8	41.8	27.7	11.8	0.0
Horseback trails	30.7	41.3	49.1	31.9	2.0	0.0
Baseball fields	30.2	28.3	21.8	23.4	43.1	100.0
Softball fields	29.2	37.0	25.5	17.0	37.3	33.3
Nature/Interprtative centers	28.2	34.8	36.4	31.9	11.8	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	34.8	38.2	31.9	9.8	0.0
Dog parks	26.7	34.8	34.5	23.4	15.7	0.0
Sledding hills	26.2	34.8	34.5	23.4	13.7	0.0
Snow boarding areas	25.7	34.8	32.7	23.4	13.7	0.0
Running tracks	24.3	47.8	30.9	12.8	7.8	0.0
Wildlife/nature observation areas	23.8	32.6	25.5	31.9	7.8	0.0
Downhill ski areas	23.3	34.8	29.1	23.4	7.8	0.0
Natural park areas/open spaces	23.3	30.4	34.5	21.3	7.8	0.0
Archery ranges	22.8	39.1	29.1	19.1	5.9	0.0
Snowmobile trails	19.3	28.3	21.8	23.4	5.9	0.0
Football fields	18.8	17.4	10.9	17.0	29.4	33.3
Playgrounds	13.4	32.6	14.5	4.3	3.9	0.0
Picnic shelters	12.4	15.2	16.4	8.5	9.8	0.0
Golf courses	11.4	17.4	9.1	10.6	9.8	0.0
Picnic grounds	9.9	13.0	14.5	10.6	2.0	0.0

Table 91  
Facilities Needed Now by School Districts by Category by Enrollment  
(percent indicating need)

Facility	Total	650 or less	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001 or more
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	50.5	45.7	43.6	53.2	58.8	66.7
Basketball courts	43.1	34.8	36.4	48.9	52.9	33.3
Volleyball courts	39.1	37.0	43.6	42.6	33.3	33.3
Ice rinks	37.6	39.1	38.2	31.9	41.2	33.3
Skateboard parks	35.6	47.8	38.2	36.2	23.5	0.0
Tennis courts	31.7	37.0	36.4	36.2	19.6	0.0
Baseball fields	30.2	28.3	21.8	23.4	43.1	100.0
Softball fields	29.2	37.0	25.5	17.0	37.3	33.3
Sledding hills	26.2	34.8	34.5	23.4	13.7	0.0
Snow boarding areas	25.7	34.8	32.7	23.4	13.7	0.0
Running tracks	24.3	47.8	30.9	12.8	7.8	0.0
Downhill ski areas	23.3	34.8	29.1	23.4	7.8	0.0
Archery ranges	22.8	39.1	29.1	19.1	5.9	0.0
Football fields	18.8	17.4	10.9	17.0	29.4	33.3
Golf courses	11.4	17.4	9.1	10.6	9.8	0.0
<b>Day Use Facilities</b>						
Nature/Interpretive centers	28.2	34.8	36.4	31.9	11.8	0.0
Dog parks	26.7	34.8	34.5	23.4	15.7	0.0
Wildlife/nature observation areas	23.8	32.6	25.5	31.9	7.8	0.0
Natural park areas/open spaces	23.3	30.4	34.5	21.3	7.8	0.0
Playgrounds	13.4	32.6	14.5	4.3	3.9	0.0
Picnic shelters	12.4	15.2	16.4	8.5	9.8	0.0
Picnic grounds	9.9	13.0	14.5	10.6	2.0	0.0
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	42.1	58.7	52.7	36.2	23.5	0.0
Unpaved trails for walking, hiking, biking	36.6	50.0	56.4	25.5	15.7	0.0
Nature/interpretive trails	34.7	56.5	47.3	29.8	7.8	0.0
Mountain bike trails	32.7	43.5	47.3	31.9	9.8	0.0
Cross-country ski trails	31.7	47.8	41.8	27.7	11.8	0.0
Horseback trails	30.7	41.3	49.1	31.9	2.0	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	34.8	38.2	31.9	9.8	0.0
Snowmobile trails	19.3	28.3	21.8	23.4	5.9	0.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by enrollment was good—650 or less = 0.890, 651-1,200 = 0.932, 1,201-2,700 = 0.781, 2,701-20,000 = 0.832, 20,001+ = 0.827. As with facilities needed now, there was little correlation among enrollment categories for facilities needed now plus facilities needed within five years (Table 92). The small number of school districts in the 20,001+ category (3) resulted in numerous ties when looking at the higher ranked and lower ranked facilities.

Table 92  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by School Districts by Enrollment

Enrollment	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001+
650 or less	0.736	0.348	-0.065	-0.202
651 - 1,200		0.718	0.217	0.127
1,201 - 2,700			0.658	0.550
2,701 - 20,000				0.710

As with facilities needed now, there was some commonality for school districts in their ranking of higher and lower ranked facilities (Table 93). When looking at facilities needed now along with facilities needed within five years, the three school districts in the 20,001+ class still saw no need for 20 facilities.

There was some commonality when looking at facilities by facility category (Table 94).



Table 93  
Facilities Needed Now Plus Facilities Needed Within Five Years  
by School Districts by Enrollment  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>650 or less</b>	<b>651 - 1,200</b>	<b>1,201 - 2,700</b>	<b>2,701 - 20,000</b>	<b>20,001 or more</b>
Soccer fields	63.7	45.8	56.9	74.0	75.5	100.0
Paved trails for walking, hiking, skating, biking	53.3	64.6	56.9	56.0	37.7	33.3
Basketball courts	51.4	35.4	44.8	68.0	58.5	33.3
Ice rinks	47.2	43.8	50.0	48.0	47.2	33.3
Volleyball courts	46.2	41.7	46.6	52.0	45.3	33.3
Unpaved trails for walking, hiking, biking	45.3	54.2	63.8	42.0	22.6	0.0
Softball fields	42.5	41.7	29.3	40.0	58.5	66.7
Tennis courts	42.0	39.6	43.1	50.0	37.7	0.0
Nature/interpretive trails	41.0	62.5	50.0	38.0	17.0	0.0
Cross-country ski trails	40.6	54.2	50.0	36.0	24.5	0.0
Skateboard parks	39.2	52.1	39.7	42.0	26.4	0.0
Baseball fields	38.7	31.3	22.4	38.0	60.4	100.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	52.1	43.1	38.0	11.3	0.0
Mountain bike trails	34.9	47.9	44.8	34.0	15.1	0.0
Nature/Interprtative centers	34.4	41.7	39.7	36.0	22.6	0.0
Horseback trails	33.0	47.9	48.3	30.0	7.5	0.0
Wildlife/nature observation areas	32.5	35.4	39.7	38.0	17.0	33.3
Playgrounds	32.1	47.9	31.0	30.0	22.6	0.0
Natural park areas/open spaces	32.1	35.4	37.9	34.0	20.8	33.3
Football fields	30.2	20.8	20.7	26.0	52.8	33.3
Running tracks	29.7	54.2	36.2	16.0	15.1	0.0
Sledding hills	28.3	39.6	32.8	30.0	13.2	0.0
Dog parks	28.3	37.5	32.8	24.0	20.8	0.0
Snow boarding areas	27.8	41.7	31.0	26.0	15.1	0.0
Picnic shelters	25.0	25.0	24.1	28.0	24.5	0.0
Downhill ski areas	24.1	39.6	27.6	22.0	9.4	0.0
Snowmobile trails	24.1	35.4	27.6	28.0	7.5	0.0
Archery ranges	23.6	41.7	27.6	20.0	7.5	0.0
Picnic grounds	22.2	27.1	22.4	26.0	15.1	0.0
Golf courses	17.0	22.9	17.2	12.0	17.0	0.0

Table 94  
 Facilities Needed Now Plus Facilities Needed Within Five Years  
 by School Districts by Category by Enrollment  
 (percent indicating need)

Facility	Total	650 or less	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001 or more
<b>Outdoor Sport Courts &amp; Fields</b>						
Soccer fields	63.7	45.8	56.9	74.0	75.5	100.0
Basketball courts	51.4	35.4	44.8	68.0	58.5	33.3
Ice rinks	47.2	43.8	50.0	48.0	47.2	33.3
Volleyball courts	46.2	41.7	46.6	52.0	45.3	33.3
Softball fields	42.5	41.7	29.3	40.0	58.5	66.7
Tennis courts	42.0	39.6	43.1	50.0	37.7	0.0
Skateboard parks	39.2	52.1	39.7	42.0	26.4	0.0
Baseball fields	38.7	31.3	22.4	38.0	60.4	100.0
Football fields	30.2	20.8	20.7	26.0	52.8	33.3
Running tracks	29.7	54.2	36.2	16.0	15.1	0.0
Sledding hills	28.3	39.6	32.8	30.0	13.2	0.0
Snow boarding areas	27.8	41.7	31.0	26.0	15.1	0.0
Downhill ski areas	24.1	39.6	27.6	22.0	9.4	0.0
Archery ranges	23.6	41.7	27.6	20.0	7.5	0.0
Golf courses	17.0	22.9	17.2	12.0	17.0	0.0
<b>Day Use Facilities</b>						
Nature/Interpretive centers	34.4	41.7	39.7	36.0	22.6	0.0
Wildlife/nature observation areas	32.5	35.4	39.7	38.0	17.0	33.3
Playgrounds	32.1	47.9	31.0	30.0	22.6	0.0
Natural park areas/open spaces	32.1	35.4	37.9	34.0	20.8	33.3
Dog parks	28.3	37.5	32.8	24.0	20.8	0.0
Picnic shelters	25.0	25.0	24.1	28.0	24.5	0.0
Picnic grounds	22.2	27.1	22.4	26.0	15.1	0.0
<b>Trails</b>						
Paved trails for walking, hiking, skating, biking	53.3	64.6	56.9	56.0	37.7	33.3
Unpaved trails for walking, hiking, biking	45.3	54.2	63.8	42.0	22.6	0.0
Nature/interpretive trails	41.0	62.5	50.0	38.0	17.0	0.0
Cross-country ski trails	40.6	54.2	50.0	36.0	24.5	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	52.1	43.1	38.0	11.3	0.0
Mountain bike trails	34.9	47.9	44.8	34.0	15.1	0.0
Horseback trails	33.0	47.9	48.3	30.0	7.5	0.0
Snowmobile trails	24.1	35.4	27.6	28.0	7.5	0.0

### Analysis by Subsidized Lunches

The percent of students eligible for free or reduced cost lunches during the 2003-04 school year was used as a surrogate for median household income.

There was some correlation among groups with higher percent subsidized lunches in ranking facilities (Table 95).

Table 95  
Correlation Coefficients of Facilities Needed Now by School Districts  
By Subsidized Lunches

Subsidized lunches	20.1% - 30.0%	30.1% - 40.0%	40.1% or more
20% or less	0.543	0.563	0.428
20.1% - 30.0%		0.710	0.746
30.1% - 40.0%			0.772

Three of the groups ranked soccer fields and paved trails for walking, hiking, skating, biking in their top three (Table 96). All groups ranked picnic grounds in their bottom three. Three of the groups ranked golf courses, picnic shelters, and playgrounds in their bottom three.

School districts with over 30 percent of their enrollment eligible for subsidized lunches ranked facilities in the Trail category highest. School districts with less than 20 percent of their enrollment eligible for subsidized lunches ranked facilities in the Outdoor Sport Courts & Fields category highest. School districts with 20 to 30 percent of their enrollment eligible for subsidized lunches had facilities from both the Trails category and the Outdoor Sport Courts & Fields category in their top three.

There was some commonality among subsidized lunches groups in the higher and lower ranked facilities when looked at by facility category (Table 97).

Table 96  
Facilities Needed Now by School Districts by Subsidized Lunches  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>20.0% or less</b>	<b>20.1% - 30.0%</b>	<b>30.1% - 40.0%</b>	<b>40.1% or more</b>
Soccer fields	50.5	58.8	57.4	38.0	45.0
Basketball courts	43.1	51.0	39.3	44.0	37.5
Paved trails for walking, hiking, skating, biking	42.1	29.4	45.9	50.0	42.5
Volleyball courts	39.1	43.1	37.7	40.0	35.0
Ice rinks	37.6	35.3	39.3	40.0	35.0
Unpaved trails for walking, hiking, biking	36.6	27.5	27.9	50.0	45.0
Skateboard parks	35.6	23.5	42.6	38.0	37.5
Nature/interpretive trails	34.7	29.4	26.2	44.0	42.5
Mountain bike trails	32.7	25.5	27.9	38.0	42.5
Tennis courts	31.7	25.5	36.1	28.0	37.5
Cross-country ski trails	31.7	21.6	26.2	44.0	37.5
Horseback trails	30.7	21.6	26.2	38.0	40.0
Baseball fields	30.2	49.0	23.0	28.0	20.0
Softball fields	29.2	41.2	24.6	24.0	27.5
Nature/Interprtative centers	28.2	19.6	27.9	36.0	30.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	29.4	19.7	32.0	35.0
Dog parks	26.7	23.5	24.6	26.0	35.0
Sledding hills	26.2	13.7	27.9	30.0	35.0
Snow boarding areas	25.7	19.6	26.2	24.0	35.0
Running tracks	24.3	13.7	27.9	20.0	37.5
Wildlife/nature observation areas	23.8	25.5	26.2	24.0	17.5
Downhill ski areas	23.3	13.7	23.0	24.0	35.0
Natural park areas/open spaces	23.3	17.6	23.0	30.0	22.5
Archery ranges	22.8	5.9	26.2	28.0	32.5
Snowmobile trails	19.3	11.8	18.0	28.0	20.0
Football fields	18.8	29.4	21.3	14.0	7.5
Playgrounds	13.4	3.9	18.0	14.0	17.5
Picnic shelters	12.4	3.9	11.5	18.0	17.5
Golf courses	11.4	9.8	11.5	14.0	10.0
Picnic grounds	9.9	5.9	6.6	12.0	17.5

Table 97  
Facilities Needed Now by School Districts by Category by Subsidized Lunches  
(percent indicating need)

Facility	Total	20.0% or less	20.1% - 30.0%	30.1% - 40.0%	40.1% or more
<b>Outdoor Sport Courts &amp; Fields</b>					
Soccer fields	50.5	58.8	57.4	38.0	45.0
Basketball courts	43.1	51.0	39.3	44.0	37.5
Volleyball courts	39.1	43.1	37.7	40.0	35.0
Ice rinks	37.6	35.3	39.3	40.0	35.0
Skateboard parks	35.6	23.5	42.6	38.0	37.5
Tennis courts	31.7	25.5	36.1	28.0	37.5
Baseball fields	30.2	49.0	23.0	28.0	20.0
Softball fields	29.2	41.2	24.6	24.0	27.5
Sledding hills	26.2	13.7	27.9	30.0	35.0
Snow boarding areas	25.7	19.6	26.2	24.0	35.0
Running tracks	24.3	13.7	27.9	20.0	37.5
Downhill ski areas	23.3	13.7	23.0	24.0	35.0
Archery ranges	22.8	5.9	26.2	28.0	32.5
Football fields	18.8	29.4	21.3	14.0	7.5
Golf courses	11.4	9.8	11.5	14.0	10.0
<b>Day Use Facilities</b>					
Nature/Interprative centers	28.2	19.6	27.9	36.0	30.0
Dog parks	26.7	23.5	24.6	26.0	35.0
Wildlife/nature observation areas	23.8	25.5	26.2	24.0	17.5
Natural park areas/open spaces	23.3	17.6	23.0	30.0	22.5
Playgrounds	13.4	3.9	18.0	14.0	17.5
Picnic shelters	12.4	3.9	11.5	18.0	17.5
Picnic grounds	9.9	5.9	6.6	12.0	17.5
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	42.1	29.4	45.9	50.0	42.5
Unpaved trails for walking, hiking, biking	36.6	27.5	27.9	50.0	45.0
Nature/interpretive trails	34.7	29.4	26.2	44.0	42.5
Mountain bike trails	32.7	25.5	27.9	38.0	42.5
Cross-country ski trails	31.7	21.6	26.2	44.0	37.5
Horseback trails	30.7	21.6	26.2	38.0	40.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	28.2	29.4	19.7	32.0	35.0
Snowmobile trails	19.3	11.8	18.0	28.0	20.0

When comparing facilities needed now with facilities needed now plus facilities needed within five years, the correlation by subsidized lunches is good—20.0% or less = 0.836, 20.1%-30.0% = 0.798, 30.1%-40.0% = 0.947, 40.1% or more = 0.853. There was only fair correlation among subsidized lunches groups in ranking facilities needed now along with facilities needed within five years (Table 98).

Table 98  
Correlation Coefficients of Facilities Needed Now  
Plus Facilities Needed Within Five Years  
by School Districts By Subsidized Lunches

Subsidized lunches	20.1% - 30.0%	30.1% - 40.0%	40.1% or more
20% or less	0.755	0.504	0.313
20.1% - 30.0%		0.638	0.658
30.1% - 40.0%			0.814

There was some commonality among subsidized lunches groups in the higher and lower ranked facilities (Table 99).

There was some commonality among subsidized lunches groups in the higher and lower ranked facilities when looked at by facility category (Table 100).

Table 99  
Facilities Needed Now Plus Facilities Needed Within Five Years  
by School Districts by Subsidized Lunches  
(percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>20.0% or less</b>	<b>20.1% - 30.0%</b>	<b>30.1% - 40.0%</b>	<b>40.1% or more</b>
Soccer fields	63.7	69.8	68.3	63.0	50.0
Paved trails for walking, hiking, skating, biking	53.3	50.9	55.6	53.7	52.4
Basketball courts	51.4	67.9	46.0	50.0	40.5
Ice rinks	47.2	47.2	52.4	42.6	45.2
Volleyball courts	46.2	54.7	46.0	44.4	38.1
Unpaved trails for walking, hiking, biking	45.3	39.6	41.3	51.9	50.0
Softball fields	42.5	67.9	39.7	27.8	33.3
Tennis courts	42.0	47.2	49.2	33.3	35.7
Nature/interpretive trails	41.0	39.6	34.9	46.3	45.2
Cross-country ski trails	40.6	35.8	34.9	48.1	45.2
Skateboard parks	39.2	30.2	42.9	38.9	45.2
Baseball fields	38.7	66.0	33.3	27.8	26.2
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	32.1	25.4	42.6	45.2
Mountain bike trails	34.9	28.3	30.2	38.9	45.2
Nature/Interprtative centers	34.4	28.3	34.9	37.0	38.1
Horseback trails	33.0	26.4	28.6	40.7	38.1
Wildlife/nature observation areas	32.5	35.8	31.7	31.5	31.0
Playgrounds	32.1	32.1	36.5	22.2	38.1
Natural park areas/open spaces	32.1	37.7	28.6	35.2	26.2
Football fields	30.2	50.9	30.2	22.2	14.3
Running tracks	29.7	22.6	31.7	27.8	38.1
Sledding hills	28.3	18.9	28.6	29.6	38.1
Dog parks	28.3	28.3	25.4	27.8	33.3
Snow boarding areas	27.8	22.6	28.6	25.9	35.7
Picnic shelters	25.0	30.2	20.6	25.9	23.8
Downhill ski areas	24.1	13.2	25.4	24.1	35.7
Snowmobile trails	24.1	17.0	20.6	33.3	26.2
Archery ranges	23.6	9.4	27.0	27.8	31.0
Picnic grounds	22.2	24.5	19.0	22.2	23.8
Golf courses	17.0	15.1	19.0	18.5	14.3

Table 100  
 Facilities Needed Now Plus Facilities Needed Within Five Years  
 by School Districts by Category by Subsidized Lunches  
 (percent indicating need)

Facility	Total	20.0% or less	20.1% - 30.0%	30.1% - 40.0%	40.1% or more
<b>Outdoor Sport Courts &amp; Fields</b>					
Soccer fields	63.7	69.8	68.3	63.0	50.0
Basketball courts	51.4	67.9	46.0	50.0	40.5
Ice rinks	47.2	47.2	52.4	42.6	45.2
Volleyball courts	46.2	54.7	46.0	44.4	38.1
Softball fields	42.5	67.9	39.7	27.8	33.3
Tennis courts	42.0	47.2	49.2	33.3	35.7
Skateboard parks	39.2	30.2	42.9	38.9	45.2
Baseball fields	38.7	66.0	33.3	27.8	26.2
Football fields	30.2	50.9	30.2	22.2	14.3
Running tracks	29.7	22.6	31.7	27.8	38.1
Sledding hills	28.3	18.9	28.6	29.6	38.1
Snow boarding areas	27.8	22.6	28.6	25.9	35.7
Downhill ski areas	24.1	13.2	25.4	24.1	35.7
Archery ranges	23.6	9.4	27.0	27.8	31.0
Golf courses	17.0	15.1	19.0	18.5	14.3
<b>Day Use Facilities</b>					
Nature/Interprative centers	34.4	28.3	34.9	37.0	38.1
Wildlife/nature observation areas	32.5	35.8	31.7	31.5	31.0
Playgrounds	32.1	32.1	36.5	22.2	38.1
Natural park areas/open spaces	32.1	37.7	28.6	35.2	26.2
Dog parks	28.3	28.3	25.4	27.8	33.3
Picnic shelters	25.0	30.2	20.6	25.9	23.8
Picnic grounds	22.2	24.5	19.0	22.2	23.8
<b>Trails</b>					
Paved trails for walking, hiking, skating, biking	53.3	50.9	55.6	53.7	52.4
Unpaved trails for walking, hiking, biking	45.3	39.6	41.3	51.9	50.0
Nature/interpretive trails	41.0	39.6	34.9	46.3	45.2
Cross-country ski trails	40.6	35.8	34.9	48.1	45.2
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	35.4	32.1	25.4	42.6	45.2
Mountain bike trails	34.9	28.3	30.2	38.9	45.2
Horseback trails	33.0	26.4	28.6	40.7	38.1
Snowmobile trails	24.1	17.0	20.6	33.3	26.2



### Analysis by Whether Facility is Provided

The correlations were good when facilities provided by school districts were looked at by region (0.8 or higher) (Table 101), enrollment change (0.8 or higher) (Table 103), enrollment (most 0.8 or higher) (Table 105), and subsidized lunches (0.8 or higher) (Table 107).

Some facilities are provided by most school districts (e.g. football fields, baseball fields, playgrounds, running tracks, softball fields). Over one-half of the facilities (17 of 30) are provided by fewer than 10 percent of the school districts. These lesser-provided facilities include all of the Trails category, a category not usually associated with school districts. They also include most of the winter sports facilities in the Outdoor Sport Courts & Fields category. Tables of facilities provided by region (Table 102), enrollment change (Table 104), enrollment (Table 106) and subsidized lunches (Table 108) follow.

School districts that don't provide a facility are more likely to indicate a current need for that facility (Table 109). School districts that do not provide the facility indicated a greater need now for 19 of the 30 facilities.

When looking at facilities needed now plus facilities needed within the next five years, the same trend occurs with 16 of the 30 facilities being requested more by school districts that do not provide the facility than school districts that do provide the facility (Table 110).

Table 101  
Correlation Coefficients of Facilities Provided by School Districts by Region

Region	Northeast	South	Central	Metro
Northwest	0.899	0.920	0.895	0.884
Northeast		0.889	0.912	0.905
South			0.877	0.914
Central				0.966

Table 102  
Facilities Provided by School Districts by Region  
(percent providing facility)

Facility	Total	Northwest	Northeast	South	Central	Metro
Football fields	91.3	97.8	90.3	86.3	96.7	93.2
Baseball fields	84.6	82.6	83.9	76.5	100.0	95.5
Playgrounds	84.6	89.1	93.5	81.4	86.7	79.5
Running tracks	79.1	87.0	74.2	71.6	90.0	84.1
Softball fields	78.7	80.4	58.1	71.6	100.0	93.2
Basketball courts	73.1	76.1	74.2	72.5	76.7	68.2
Tennis courts	65.6	60.9	58.1	56.9	80.0	86.4
Soccer fields	45.8	37.0	41.9	29.4	56.7	88.6
Volleyball courts	43.5	50.0	38.7	34.3	56.7	52.3
Natural park areas/open spaces	15.8	15.2	25.8	14.7	6.7	18.2
Wildlife/nature observation areas	15.0	17.4	29.0	12.7	6.7	13.6
Ice rinks	14.6	13.0	25.8	7.8	20.0	20.5
Nature/Interpretive centers	11.9	19.6	19.4	7.8	10.0	9.1
Nature/interpretive trails	9.1	13.0	19.4	5.9	6.7	6.8
Paved trails for walking, hiking, skating, biking	7.5	6.5	3.2	4.9	10.0	15.9
Picnic shelters	7.1	8.7	6.5	7.8	3.3	6.8
Cross-country ski trails	6.7	4.3	16.1	2.9	13.3	6.8
Sledding hills	6.3	2.2	6.5	6.9	6.7	9.1
Picnic grounds	5.9	8.7	6.5	6.9	3.3	2.3
Unpaved trails for walking, hiking, biking	5.9	10.9	16.1	2.0	6.7	2.3
Archery ranges	2.8	0.0	6.5	2.0	3.3	4.5
Golf courses	2.4	4.3	3.2	2.9	0.0	0.0
Skateboard parks	2.0	4.3	3.2	0.0	3.3	2.3
Snowmobile trails	2.0	2.2	0.0	3.9	0.0	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	1.2	2.2	0.0	2.0	0.0	0.0
Downhill ski areas	0.8	2.2	3.2	0.0	0.0	0.0
Mountain bike trails	0.8	0.0	6.5	0.0	0.0	0.0
Horseback trails	0.8	2.2	0.0	1.0	0.0	0.0
Snow boarding areas	0.4	0.0	3.2	0.0	0.0	0.0
Dog parks	0.4	2.2	0.0	0.0	0.0	0.0

Table 103  
Correlation Coefficients of Facilities Provided by School Districts by Enrollment Change

Enrollment change	-13.9% to 0.0%	0.1% to 15.0%	15.1% or more
-14.0% or less	0.961	0.881	0.944
-13.9% to 0.0%		0.913	0.941
0.1% to 15.0%			0.880

Table 104  
Facilities Provided by School Districts by Enrollment Change  
(percent providing facility)

Facility	Total	-14.0% or less	-13.9% to 0%	0.1% to 15.0%	15.1% or more
Football fields	91.3	87.5	93.0	97.8	87.8
Baseball fields	84.6	72.5	88.4	89.1	95.1
Playgrounds	84.6	86.3	86.0	82.6	80.5
Running tracks	79.1	70.0	84.9	82.6	80.5
Softball fields	78.7	63.8	79.1	91.3	92.7
Basketball courts	73.1	72.5	70.9	84.8	65.9
Tennis courts	65.6	53.8	64.0	76.1	80.5
Soccer fields	45.8	26.3	50.0	58.7	61.0
Volleyball courts	43.5	37.5	46.5	54.3	36.6
Natural park areas/open spaces	15.8	12.5	17.4	15.2	19.5
Wildlife/nature observation areas	15.0	15.0	16.3	10.9	17.1
Ice rinks	14.6	10.0	17.4	17.4	14.6
Nature/Interpretive centers	11.9	11.3	12.8	13.0	9.8
Nature/interpretive trails	9.1	10.0	7.0	10.9	9.8
Paved trails for walking, hiking, skating, biking	7.5	6.3	7.0	4.3	14.6
Picnic shelters	7.1	5.0	7.0	13.0	4.9
Cross-country ski trails	6.7	6.3	5.8	6.5	9.8
Sledding hills	6.3	3.8	5.8	13.0	4.9
Picnic grounds	5.9	5.0	5.8	10.9	2.4
Unpaved trails for walking, hiking, biking	5.9	7.5	7.0	0.0	7.3
Archery ranges	2.8	1.3	3.5	6.5	0.0
Golf courses	2.4	2.5	3.5	2.2	0.0
Skateboard parks	2.0	2.5	0.0	2.2	4.9
Snowmobile trails	2.0	3.8	1.2	2.2	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	1.2	2.5	1.2	0.0	0.0
Downhill ski areas	0.8	0.0	1.2	2.2	0.0
Mountain bike trails	0.8	0.0	1.2	0.0	2.4
Horseback trails	0.8	1.3	1.2	0.0	0.0
Snow boarding areas	0.4	0.0	0.0	2.2	0.0
Dog parks	0.4	1.3	0.0	0.0	0.0

Table 105  
Correlation Coefficients of Facilities Provided by School Districts by Enrollment

Enrollment	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001+
650 or less	0.941	0.901	0.886	0.792
651 - 1,200		0.891	0.877	0.812
1,201 - 2,700			0.918	0.781
2,701 - 20,000				0.810

Table 106  
Facilities Provided by School Districts by Enrollment  
(percent providing facility)

Facility	Total	650 or less	651 - 1,200	1,201 - 2,700	2,701 - 20,000	20,001 or more
Football fields	91.3	87.1	92.6	90.0	96.6	75.0
Baseball fields	84.6	75.8	86.8	85.0	89.8	100.0
Playgrounds	84.6	90.3	86.8	83.3	78.0	75.0
Running tracks	79.1	45.2	86.8	93.3	91.5	75.0
Softball fields	78.7	72.6	70.6	83.3	89.8	75.0
Basketball courts	73.1	71.0	76.5	73.3	72.9	50.0
Tennis courts	65.6	41.9	54.4	71.7	96.6	75.0
Soccer fields	45.8	16.1	26.5	51.7	89.8	100.0
Volleyball courts	43.5	32.3	45.6	38.3	57.6	50.0
Natural park areas/open spaces	15.8	16.1	13.2	21.7	13.6	0.0
Wildlife/nature observation areas	15.0	14.5	16.2	15.0	15.3	0.0
Ice rinks	14.6	11.3	5.9	18.3	25.4	0.0
Nature/Interprative centers	11.9	11.3	14.7	6.7	13.6	25.0
Nature/interpretive trails	9.1	9.7	10.3	6.7	10.2	0.0
Paved trails for walking, hiking, skating, biking	7.5	8.1	1.5	6.7	15.3	0.0
Picnic shelters	7.1	9.7	5.9	8.3	5.1	0.0
Cross-country ski trails	6.7	4.8	2.9	6.7	13.6	0.0
Sledding hills	6.3	4.8	2.9	8.3	10.2	0.0
Picnic grounds	5.9	12.9	2.9	5.0	3.4	0.0
Unpaved trails for walking, hiking, biking	5.9	4.8	7.4	5.0	6.8	0.0
Archery ranges	2.8	1.6	1.5	6.7	1.7	0.0
Golf courses	2.4	4.8	2.9	1.7	0.0	0.0
Skateboard parks	2.0	0.0	0.0	6.7	1.7	0.0
Snowmobile trails	2.0	4.8	0.0	1.7	1.7	0.0
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	1.2	1.6	0.0	1.7	1.7	0.0
Downhill ski areas	0.8	0.0	1.5	0.0	1.7	0.0
Mountain bike trails	0.8	1.6	1.5	0.0	0.0	0.0
Horseback trails	0.8	0.0	0.0	1.7	1.7	0.0
Snow boarding areas	0.4	0.0	0.0	0.0	1.7	0.0
Dog parks	0.4	0.0	0.0	0.0	1.7	0.0

Table 107  
Correlation Coefficients of Facilities Provided by School Districts by Subsidized Lunch

Subsidized lunches	20.1% - 30.0%	30.1% - 40.0%	40.1% or more
20% or less	0.920	0.942	0.935
20.1% - 30.0%		0.859	0.858
30.1% - 40.0%			0.976

Table 108  
Facilities Provided by School Districts by Subsidized Lunch  
(percent providing facility)

Facility	Total	20.0% or less	20.1% - 30.0%	30.1% - 40.0%	40.1% or more
Football fields	91.3	93.3	92.8	91.3	87.3
Baseball fields	84.6	90.0	88.4	79.7	80.0
Playgrounds	84.6	76.7	89.9	85.5	85.5
Running tracks	79.1	86.7	78.3	81.2	69.1
Softball fields	78.7	88.3	81.2	76.8	67.3
Basketball courts	73.1	71.7	73.9	76.8	69.1
Tennis courts	65.6	78.3	60.9	68.1	54.5
Soccer fields	45.8	70.0	47.8	39.1	25.5
Volleyball courts	43.5	51.7	39.1	42.0	41.8
Natural park areas/open spaces	15.8	23.3	8.7	17.4	14.5
Wildlife/nature observation areas	15.0	15.0	11.6	18.8	14.5
Ice rinks	14.6	15.0	18.8	11.6	12.7
Nature/Interprative centers	11.9	10.0	8.7	17.4	10.9
Nature/interpretive trails	9.1	13.3	5.8	10.1	7.3
Paved trails for walking, hiking, skating, biking	7.5	11.7	7.2	5.8	5.5
Picnic shelters	7.1	8.3	4.3	10.1	5.5
Cross-country ski trails	6.7	3.3	13.0	5.8	3.6
Sledding hills	6.3	6.7	7.2	5.8	5.5
Picnic grounds	5.9	5.0	1.4	8.7	9.1
Unpaved trails for walking, hiking, biking	5.9	1.7	4.3	10.1	7.3
Archery ranges	2.8	3.3	2.9	1.4	3.6
Golf courses	2.4	0.0	1.4	2.9	5.5
Skateboard parks	2.0	1.7	5.8	0.0	0.0
Snowmobile trails	2.0	0.0	4.3	0.0	3.6
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	1.2	0.0	4.3	0.0	0.0
Downhill ski areas	0.8	0.0	0.0	1.4	1.8
Mountain bike trails	0.8	0.0	0.0	1.4	1.8
Horseback trails	0.8	0.0	2.9	0.0	0.0
Snow boarding areas	0.4	0.0	0.0	1.4	0.0
Dog parks	0.4	0.0	1.4	0.0	0.0

Table 109  
 Facilities Needed Now by School Districts  
 by Facility Provided by School Districts  
 (percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Provide</b>	<b>Don't provide</b>
Soccer fields	43.0	50.9	35.8
Basketball courts	37.5	35.3	44.1
Paved trails for walking, hiking, skating, biking	37.4	27.8	38.3
Volleyball courts	34.8	29.9	39.2
Ice rinks	33.3	41.7	31.8
Unpaved trails for walking, hiking, biking	32.7	35.7	32.5
Skateboard parks	31.7	40.0	31.5
Nature/interpretive trails	30.8	23.8	31.6
Mountain bike trails	29.9	0.0	30.0
Cross-country ski trails	28.4	20.0	29.0
Horseback trails	27.8	0.0	28.1
Tennis courts	27.2	18.3	43.9
Baseball fields	26.2	28.6	13.5
Nature/Interprative centers	25.7	17.9	26.8
Softball fields	25.5	27.3	18.8
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	25.3	0.0	25.7
Dog parks	24.9	0.0	25.0
Sledding hills	24.0	13.3	24.8
Snow boarding areas	23.3	0.0	23.4
Wildlife/nature observation areas	21.7	19.4	22.2
Natural park areas/open spaces	21.4	24.3	20.8
Downhill ski areas	21.1	0.0	21.3
Running tracks	21.0	15.4	44.4
Archery ranges	20.8	33.3	20.5
Snowmobile trails	17.6	0.0	18.0
Football fields	16.7	17.2	11.1
Playgrounds	11.7	12.5	6.5
Picnic shelters	11.5	0.0	12.3
Golf courses	10.4	20.0	10.2
Picnic grounds	9.3	8.3	9.4

Table 110  
 Facilities Needed Now Plus Facilities Needed Within Five Years by School Districts  
 by Facilities Provided by School Districts  
 (percent indicating need)

<b>Facility</b>	<b>Total</b>	<b>Provide</b>	<b>Don't provide</b>
Soccer fields	56.9	66.7	48.0
Paved trails for walking, hiking, skating, biking	49.7	55.6	49.3
Basketball courts	47.0	47.4	45.8
Ice rinks	43.8	47.3	43.3
Volleyball courts	43.2	41.1	45.0
Unpaved trails for walking, hiking, biking	42.4	35.7	42.9
Softball fields	38.9	41.0	31.3
Nature/interpretive trails	38.3	38.1	38.4
Cross-country ski trails	38.2	33.3	38.5
Tennis courts	37.8	31.4	50.0
Skateboard parks	36.5	40.0	36.5
Baseball fields	35.2	37.8	21.6
Mountain bike trails	33.5	0.0	33.6
Motorized, off-highway vehicle trails (ATV, 4X4, motorcycle)	33.3	0.0	33.8
Nature/Interprtative centers	32.9	42.9	31.4
Horseback trails	31.4	0.0	31.7
Wildlife/nature observation areas	31.2	33.3	30.8
Natural park areas/open spaces	30.9	43.2	28.5
Playgrounds	29.4	30.5	22.6
Football fields	28.2	28.7	22.2
Dog parks	27.7	0.0	27.8
Sledding hills	27.2	13.3	28.2
Running tracks	27.0	22.3	46.6
Snow boarding areas	26.4	0.0	26.6
Picnic shelters	24.3	6.7	25.6
Snowmobile trails	23.0	0.0	23.5
Downhill ski areas	22.9	0.0	23.1
Archery ranges	22.6	33.3	22.4
Picnic grounds	21.9	16.6	22.2
Golf courses	16.3	20.0	16.2

## REFERENCES

1. Minnesota Department of Natural Resources. 2002. Minnesota's 2003-2008 State Comprehensive Outdoor Recreation Plan. Minnesota Department of Natural Resources, Office of Management and Budget Services.
2. Kelly, Tim. 2005. 2004 Outdoor Recreation Participation Survey of Minnesotans. Report of Findings. Minnesota Department of Natural Resources, Office of Management and Budget Services.
3. Kelly, Tim. 2004. Outdoor recreation participation trends in wildlife-related activities (fishing, hunting, wildlife observation) and recreational boating. A background report for Minnesota State Comprehensive Outdoor Recreation Planning. Minnesota Department of Natural Resources, Office of Management and Budget Services.
4. Sushak, Ron. 2005. 2004 Outdoor Recreation Facility Survey of Minnesota Cities, Counties, and School Districts. Part 2: Management Concerns of Local Government Providers. Minnesota Department of Natural Resources, Office of Management and Budget Services.
5. Sushak, Ron. 2005. 2004 Outdoor Recreation Facility Survey of Minnesota Cities, Counties, and School Districts. Methodology. Minnesota Department of Natural Resources, Office of Management and Budget Services.