

2003-2007 OREGON STATEWIDE COMPREHENSIVE  
OUTDOOR RECREATION PLAN

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**CHAPTER THREE**  
**DEMAND AND NEEDS ANALYSIS**



*Nature*  
**HISTORY**  
*Discovery*

Prepared by the  
Oregon Parks and Recreation Department

## **DEMAND AND NEEDS ANALYSIS FOR THE SCORP PROCESS**

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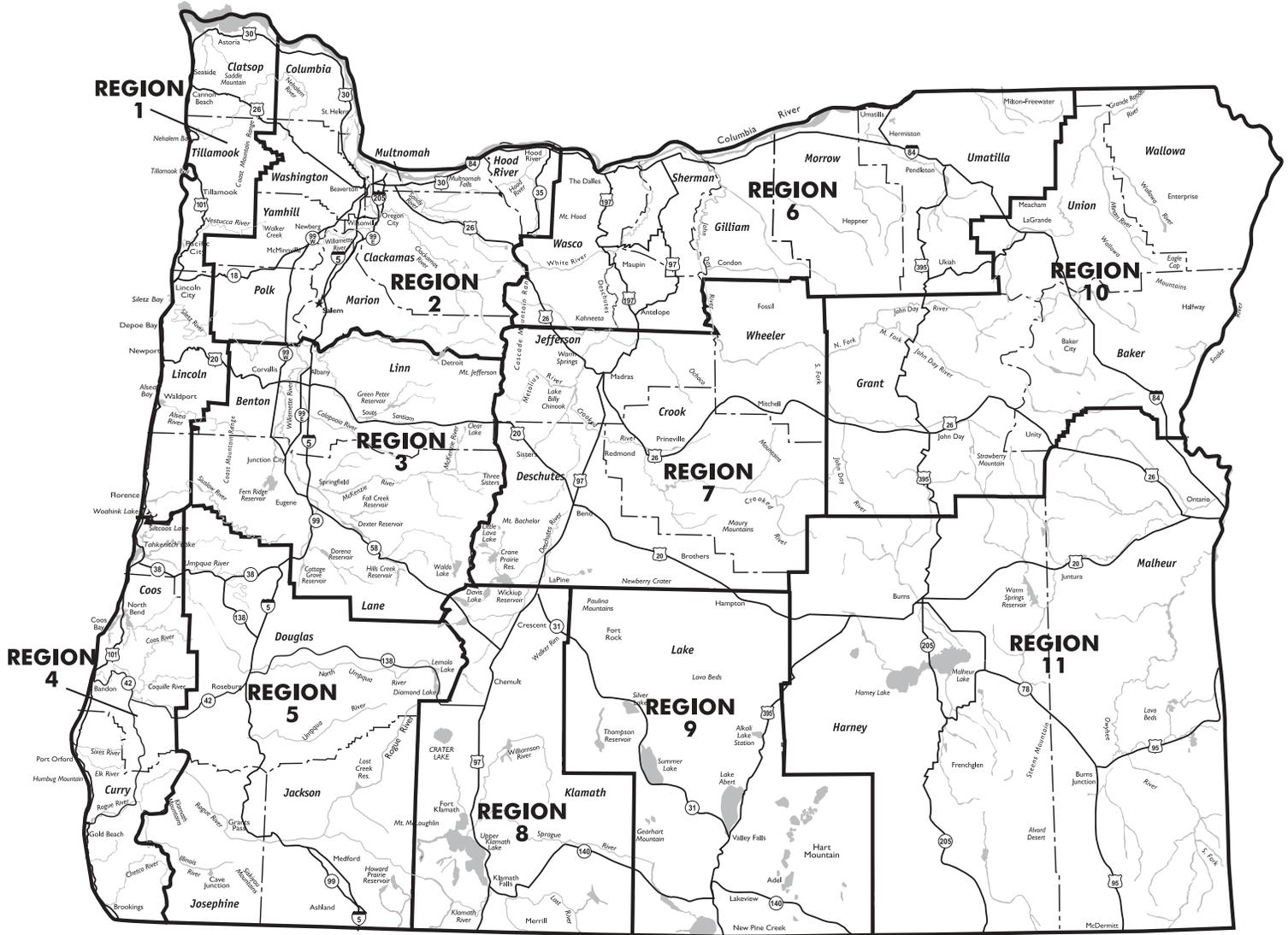
### **BACKGROUND**

The Oregon Parks and Recreation Department (OPRD) is conducting their Statewide Comprehensive Outdoor Recreation Planning (SCORP) process. Part of this process involves estimating demand for outdoor recreation in Oregon so that future outdoor recreation needs can be assessed. There are eleven planning regions for the Oregon SCORP (see Figure 3.1) and the goal is to estimate annual recreation use, by activity, within each of those planning regions. The demand analysis will then be combined with an outdoor recreation supply capacity analysis to assess needs for future investment in outdoor recreation facilities and opportunities. Results from this study will also provide recreation planners across the state with up-to-date recreational participation information for use in local and regional planning.

### **SURVEY METHODOLOGY**

As requested by OPRD, the demand and needs analysis followed the general methodology described in the 1994 Florida SCORP document entitled, "Outdoor Recreation in Florida." However, there were some significant differences between the Oregon and Florida methodologies. First, instead of sending mail surveys directly to a sample of the general population, a phone survey was used to screen households for whether or not they participated in outdoor recreation activities within the past 12 months (copies of phone and mail surveys are in Appendices A and C). For the 11 in-state regions, about 73% of all phone respondents said that they had participated in outdoor recreation in Oregon over the past 12 months, compared to only 29% of the out-of-state sample. Those who did participate were asked to supply their name and address so that a more detailed mail survey could be sent. The phone survey also gathered information on recreation participation in 12 broad recreation categories, as well as detailed demographic variables, which were linked to the mail survey of common respondents (see Appendix B for phone survey results). Although the main purposes of the phone survey were to (a) gather names and addresses for the mail survey, and (b) provide reliable participation estimates for the broad recreation activities, the results of the phone survey alone are useful for recreation planners. The results show how recreation participation varies by activity and season for residents of different regions. Recreation activities that take place close to residents' homes, such as road and street activities, are the most popular overall. This type of information can indicate where recreation planners might target their investments, as well as identifying the peak seasons for different types of activities.

Figure 3.1. SCORP Planning Regions



Phone surveys were completed for 400 residents in each of the 11 Oregon SCORP planning region and 800 non-residents from bordering states. However, not every respondent was willing to give a name and address so that a more detailed mail survey could be sent. Table 3.1 shows the number of surveys that were mailed for each region and the response rates. Even though everyone who was sent a mail survey had previously agreed over the phone to fill it out, only about 59% of the sample returned a completed mail survey. This is most likely due to the length and complexity of the mail survey (645 variables).

Table 3.1. Response Rates by Region

Region	# of Surveys Mailed to Valid Addresses	# of Surveys Returned	Response Rate
1	269	163	61
2	294	155	53
3	296	185	63
4	254	152	60
5	322	187	58
6	306	168	55
7	323	204	63
8	298	164	55
9	302	193	64
10	294	203	69
11	295	173	59
Out-of-State	550	291	53
Survey Totals	3,803	2,238	59

Although a higher response rate might have been hoped for, 59% is considered a very acceptable response rate for general population surveys. Response rates and number of surveys per region allow a margin of error for the mail survey of no worse than +/- 8% for estimates of single variables, such as whether a household participated in a particular recreation activity. However, for some types of activities, very few people within a region participated (e.g., hang gliding, sky diving). Therefore, estimates of variables that describe these activities (e.g., number of visits, location of visits, percent of visits on a weekend) are made with very small sample sizes and results should be used with caution. This report has not made any adjustments for low sample sizes within regions, but notes activities where the sample size is less than 10. Those activities could be combined with other similar activities into a broader grouping with larger sample size.

A second difference between the Oregon and Florida methodology was how tourists, or non-residents, were surveyed. In Florida, a significant percentage of tourists arrive by air, and researchers were able to contact tourists as they departed from 13 major airports. They also contacted tourists as they exited along 3 interstate highways. In Oregon, relatively few out-of-state tourists arrive by air, and there is no easy way to contact tourists as they leave the state by automobile. Therefore, the most cost-effective way to contact potential tourists to Oregon was to randomly survey out-of-state households by phone. Unfortunately, it could take a prohibitive number of phone calls to find an out-of-state household that had visited Oregon within the past 12 months. In order to minimize the number of calls, and stay within budget for the project, households in Washington, Idaho, and California that lived in adjacent counties to Oregon, along with Ada County, Idaho (contains Boise) were contacted. Out-of-state calls were also only made at the end of the summer season to increase the likelihood of contacting a household who had recently visited Oregon and would remember their trip. Out-of-state respondents were asked about their trips over the past 12 months.

The Oregon survey had many more recreational activities than the Florida survey (76 vs. 26), and many of these activities were further subdivided by type of facility or resource used (e.g., developed vs. dispersed campsites, lakes vs. rivers, surfaced vs. unsurfaced trails). Both surveys used a version of the Recreation

Opportunity Spectrum (ROS) to measure the difference between actual and preferred settings for their favorite activity, but the Oregon survey had 9 ROS categories while the Florida survey had only 5. Because the large number of activities in the Oregon survey would have led to small sample sizes within cells, the responses to “favorite activity” for the ROS question were coded into broad activity categories.

The detailed methodology used to estimate demand and needs will be described in the sections below.

### **ESTIMATING DEMAND**

The primary goal of this project was to estimate demand and needs by region and activity. Respondents were asked to report the number of times they participated in each activity within the past three months. The survey was administered in 4 waves over the year (see Table 3.2), and total participation was calculated for each wave and summed to get annual participation. Since the phone survey has a greater sample size for each region and therefore more accuracy (+/- 5%), the total participation figures from the phone survey were used as a starting point. The estimates from the broad categories on the phone survey were then allocated to the more detailed recreation activities using percentages derived from the mail survey.

Table 3.2. Mail Survey Response Rates by Wave

Wave	# mailed	Respondents	Response rate
1 (Jan.-March)	509	295	58%
2 (April – June)	547	319	58%
3 In-state (July-Sept.)	1635	955	58%
3 Out-of-state (July – Sept.)	550	291	53%
4 (Oct. – Dec.)	562	378	67%

For any category of activity in the phone survey, the percentage of households in the regional sample that said they participated in that activity was multiplied by the number of recreating households in the region, resulting in the number of households that participated in that activity. That was then multiplied by the average number of times a household reported participating over the past three months to get total times of participation for that activity for the quarter (wave). The results for the four quarters were then summed to get total annual use. Since the summer quarter was sampled at a higher intensity than the other three quarters, those results were weighted appropriately before summing. The total use estimates from the phone survey were only for the region of origin, not destination.

The results of the mail survey were then used to allocate the phone survey estimates from region of origin to region of destination, for each of the detailed recreation activities. For example, the broad category of Hunting & Shooting on the phone survey was broken into eight specific categories on the mail survey (e.g., big game hunting with a rifle, target shooting). The percent of all Hunting & Shooting activities that fall into the eight mail Hunting & Shooting categories was calculated by adding up all the times reported in any of the eight Hunting & Shooting categories on the mail survey and dividing the number of times in any category by that total. Those percentages were multiplied by the total annual use for the Hunting & Shooting category from the phone survey to get total annual use in each specific category. Those results were then multiplied by the average trip length (in days, from the mail survey) to get total user days, which is the unit of measurement required for the needs analysis (supply units are in terms of number of people that can be accommodated per day). The percent of days for each activity originating in any region that occurred in Region 1 through 11 was then calculated, and that percentage was applied to the total number of days to get days by region of destination.

Table 3.3 shows the annual statewide user days for each of the activities. The most popular activities are running and walking for exercise and walking for pleasure, while the activities with the lowest user days are sky diving and crabbing from a bank or shore. For non-residents, the highest number of user days comes from running and walking for exercise, RV/trailer camping, and walking for pleasure. If we focus on just peak demand, the most popular activities for residents don't change, but for non-residents, RV/trailer camping is by far the most popular, followed by walking for pleasure, sightseeing, and ocean beach activities.



Table 3.3. Statewide User Days by Activity, Residents and Non-Residents.

Activity	Total	Percent	Total Resident	Percent	Total Non-resident	Percent	Peak Resident	Percent	Peak Non-resident	Percent
Picnicking	3998644	1.34%	2953514	1.18%	1045130	2.27%	1720723	2.02%	438938	2.98%
Sightseeing/driving for pleasure	12343859	4.15%	9727239	3.90%	2616620	5.68%	3568833	4.18%	790616	5.36%
Train or bus touring	140721	0.05%	80368	0.03%	60354	0.13%	40799	0.05%	4381	0.03%
Visiting cultural or historical sites, museums	2758327	0.93%	2113406	0.85%	644921	1.40%	569447	0.67%	284192	1.93%
Downhill skiing, snowboarding or telemarking	2279201	0.77%	1856715	0.74%	422486	0.92%	1695889	1.99%	383877	2.60%
Sledding or general snow play	1623316	0.55%	1489965	0.60%	133351	0.29%	1405384	1.65%	118334	0.80%
Fishing from a boat	5242758	1.76%	4390114	1.76%	852645	1.85%	1222029	1.43%	439385	2.98%
Fishing from a bank or shore	5438668	1.83%	5088038	2.04%	350630	0.76%	2302794	2.70%	165962	1.13%
Fishing from a dock or pier	816191	0.27%	782190	0.31%	34002	0.07%	462393	0.54%	15770	0.11%
Crabbing from a boat	734614	0.25%	194516	0.08%	540098	1.17%	106069	0.12%	44859	0.30%
Crabbing from a bank or shore	14552	0.00%	11565	0.00%	2986	0.01%	8671	0.01%	869	0.01%
Crabbing from a dock or pier	351206	0.12%	330622	0.13%	20584	0.04%	203686	0.24%	6343	0.04%
Clamming	410978	0.14%	330907	0.13%	80070	0.17%	193927	0.23%	27167	0.18%
Canoeing	893459	0.30%	712546	0.29%	180913	0.39%	423421	0.50%	138088	0.94%
Sea kayaking	107357	0.04%	99099	0.04%	8258	0.02%	89293	0.10%	8258	0.06%
Whitewater kayaking	424569	0.14%	401426	0.16%	23144	0.05%	192895	0.23%	17358	0.12%
Whitewater rafting	785167	0.26%	681143	0.27%	104025	0.23%	466097	0.55%	33591	0.23%
Personal watercraft	905374	0.30%	625496	0.25%	279879	0.61%	236106	0.28%	69744	0.47%
Power boating for pleasure	2751190	0.92%	883944	0.35%	1867246	4.05%	423681	0.50%	297562	2.02%
Sailing	197079	0.07%	133451	0.05%	63628	0.14%	81607	0.10%	56558	0.38%
Water skiing or other towing water sports	1379010	0.46%	967686	0.39%	411324	0.89%	460204	0.54%	104593	0.71%
Windsurfing	182082	0.06%	162326	0.07%	19756	0.04%	105222	0.12%	13470	0.09%
Big game hunting - rifle	3987648	1.34%	3970063	1.59%	17585	0.04%	1925221	2.25%	13189	0.09%
Big game hunting - bow	532227	0.18%	532227	0.21%	0	0.00%	199334	0.23%	0	0.00%
Waterfowl hunting	504301	0.17%	488760	0.20%	15541	0.03%	264856	0.31%	15541	0.11%
Upland bird or small game hunting	995463	0.33%	967682	0.39%	27781	0.06%	362201	0.42%	27781	0.19%
Trapping	1378631	0.46%	1378631	0.55%	0	0.00%	637223	0.75%	0	0.00%
Rifle/pistol target shooting	2002292	0.67%	1989709	0.80%	12582	0.03%	583661	0.68%	10596	0.07%
Skeet/trap/sporting clay shooting	484696	0.16%	483327	0.19%	1370	0.00%	232332	0.27%	1370	0.01%

Table 3.3. Statewide User Days by Activity, Residents and Non-Residents Continued

Activity	Total	Percent	Total Resident	Percent	Total Non-resident	Percent	Peak Resident	Percent	Peak Non-resident	Percent
Archery (target shooting)	649084	0.22%	641189	0.26%	7895	0.02%	234719	0.27%	7895	0.05%
Bird watching	18722709	6.29%	16797655	6.73%	1925055	4.18%	3544026	4.15%	599193	4.07%
Nature/wildlife observation	17633495	5.93%	15481435	6.21%	2152061	4.67%	4545441	5.32%	616419	4.18%
Outdoor photography	4820311	1.62%	3366243	1.35%	1454067	3.15%	878927	1.03%	326062	2.21%
Tracking animal signs	3192134	1.07%	2801042	1.12%	391091	0.85%	981502	1.15%	51841	0.35%
Collecting (rocks, plants, berries, etc.)	4552563	1.53%	4093382	1.64%	459181	1.00%	588899	0.69%	85608	0.58%
Freshwater beach	3456379	1.16%	2810137	1.13%	646242	1.40%	1426885	1.67%	238621	1.62%
Ocean beach	5986275	2.01%	4154818	1.67%	1831457	3.97%	2312696	2.71%	661877	4.49%
Swimming in an outdoor pool	5767911	1.94%	3639022	1.46%	162641	0.35%	1319862	1.55%	98117	0.67%
SCUBA diving or snorkeling	363287	0.12%	363287	0.15%	0	0.00%	79207	0.09%	0	0.00%
Horseback camping	258600	0.09%	240711	0.10%	17889	0.04%	74168	0.09%	4068	0.03%
Camping on ocean beach	362998	0.12%	299543	0.12%	63455	0.14%	191821	0.22%	20596	0.14%
RV/trailer camping	11033241	3.71%	4790888	1.92%	6242353	13.54%	2408449	2.82%	4279186	29.03%
ATV camping	281424	0.09%	200245	0.08%	81179	0.18%	145728	0.17%	81179	0.55%
Car camping with a tent	2689093	0.90%	2453774	0.98%	235318	0.51%	1514338	1.77%	128843	0.87%
Snow camping	147237	0.05%	131206	0.05%	16031	0.03%	104965	0.12%	16031	0.11%
Golf	9635657	3.24%	9015319	3.61%	620338	1.35%	3857210	4.52%	251188	1.70%
Baseball	4479768	1.51%	4382567	1.76%	97201	0.21%	1110229	1.30%	52650	0.36%
Football/rugby	2005697	0.67%	2004139	0.80%	1558	0.00%	777133	0.91%	0	0.00%
Ultimate Frisbee	185083	0.06%	181696	0.07%	3387	0.01%	81000	0.09%	3387	0.02%
Frisbee golf	407938	0.14%	382605	0.15%	25333	0.05%	40794	0.05%	0	0.00%
Hang gliding	52881	0.02%	24794	0.01%	28086	0.06%	11890	0.01%	0	0.00%
Skydiving	18886	0.01%	18886	0.01%	0	0.00%	16588	0.02%	0	0.00%
Rock climbing	487260	0.16%	438209	0.18%	49051	0.11%	298560	0.35%	24525	0.17%
Outdoor court games (volleyball, badminton)	978297	0.33%	968114	0.39%	10183	0.02%	480501	0.56%	8332	0.06%
Outdoor basketball	3694109	1.24%	3667132	1.47%	26977	0.06%	1580458	1.85%	9933	0.07%
Outdoor tennis	1193598	0.40%	1179725	0.47%	13872	0.03%	378699	0.44%	3468	0.02%
Soccer	3339052	1.12%	2720094	1.09%	618958	1.34%	1586145	1.86%	500945	3.40%
Softball	2523175	0.85%	2412074	0.97%	111101	0.24%	516638	0.61%	27002	0.18%

Table 3.3. Statewide User Days by Activity, Residents and Non-Residents Continued

Activity	Total	Percent	Total Resident	Percent	Total Non-resident	Percent	Peak Resident	Percent	Peak Non-resident	Percent
Using park playground equipment	8846220	2.97%	8509596	3.41%	336624	0.73%	3254448	3.81%	180207	1.22%
Backpacking	1147048	0.39%	1033455	0.41%	113593	0.25%	609971	0.71%	48092	0.33%
Biking	7416134	2.49%	7048271	2.83%	367864	0.80%	2499481	2.93%	200193	1.36%
Cross-country skiing/snowshoeing	553446	0.19%	477989	0.19%	75457	0.16%	349099	0.41%	36480	0.25%
Hiking	4506079	1.51%	3872626	1.55%	633453	1.37%	1923535	2.25%	225630	1.53%
Orienteering	324500	0.11%	102609	0.04%	221891	0.48%	36253	0.04%	64409	0.44%
Horseback riding	2111160	0.71%	1726086	0.69%	385074	0.84%	701404	0.82%	112712	0.76%
In-line skating/skateboarding	5745053	1.93%	5560570	2.23%	184483	0.40%	927928	1.09%	44894	0.30%
Running/walking for exercise	49245320	16.55%	38787520	15.55%	10457800	22.69%	8379951	9.82%	378208	2.57%
Walking for pleasure	47663023	16.02%	42515762	17.05%	5147261	11.17%	12020692	14.08%	1443542	9.79%
All-terrain vehicle riding	2162449	0.73%	2050145	0.82%	112304	0.24%	1129452	1.32%	83073	0.56%
Dune buggy riding	101169	0.03%	69858	0.03%	31311	0.07%	33585	0.04%	7751	0.05%
Four-wheel driving	2254544	0.76%	1798865	0.72%	455679	0.99%	1023277	1.20%	155787	1.06%
Motorcycling (dual sport or dirt bike)	1120861	0.38%	1049269	0.42%	71592	0.16%	428403	0.50%	18118	0.12%
Snowmobiling	416195	0.14%	364220	0.15%	51975	0.11%	306964	0.36%	35786	0.24%
Other snow vehicle riding	212302	0.07%	17739	0.01%	194564	0.42%	1709	0.00%	0	0.00%

Table 3.4 shows the percent of the sample and percent of the population of residents and non-residents that participated in each activity (recall that the sample only includes people that recreate, while the population includes those who don't recreate). This statistic is different from the percentages found in Table 3.3 in that it measures the percent of *people* that participated, regardless of the number of days they participated. Therefore, the activities that people tend to participate in every day, such as walking for pleasure or exercise, tend to be ranked lower than in Table 3.3, where the percentage of total user days was reported. The activities with the highest percentage of residents participating were sightseeing, walking for pleasure, nature/wildlife observation, and visiting cultural or historic sites. For non-residents, the activities with the highest percentages are sightseeing, visiting cultural or historic sites, ocean beach activities, and picnicking.



Table 3.4. Annual Statewide Percentage of Participation in Outdoor Recreation Activities

Activity	Percent of Residents in Sample that Participated	Percent of Non-Residents in Sample that Participated	Percent of Residents in State Population that Participated	Percent of Non-Residents in Surveyed Out-of-State Population that Participated
<b>Picnicking, Sightseeing, and Touring Activities</b>				
Picnicking	31.93	41.72	23.31	12.10
Sightseeing/driving for pleasure	57.71	69.54	42.13	20.17
Train or bus touring	4.03	3.97	2.94	1.15
Visiting cultural/historical sites	37.42	51.99	27.32	15.08
<b>Non-motorized Snow Activities</b>				
Downhill skiing/snowboarding/telemarking	11.01	14.57	8.04	4.23
Sledding or general snow play	12.39	9.60	9.04	2.78
<b>Fishing, Crabbing, and Clamming Activities</b>				
Fishing from a boat	21.71	20.53	15.84	5.95
Fishing from a bank or shore	25.82	12.25	18.85	3.55
Fishing from a dock or pier	5.97	1.99	4.36	0.58
Crabbing from a boat	5.27	6.62	3.85	1.92
Crabbing from a bank or shore	1.48	2.32	1.08	0.67
Crabbing from a dock or pier	5.10	2.32	3.72	0.67
Clamming	3.53	2.32	2.57	0.67
<b>Boating Activities</b>				
Canoeing	5.21	5.96	3.81	1.73
Sea Kayaking	1.04	0.66	0.76	0.19
White-Water Kayaking	1.40	0.99	1.02	0.29
White-Water Rafting	3.95	3.31	2.88	0.96
Personal watercraft (jet ski, wave runner, etc.)	1.75	4.97	1.28	1.44
Power boating for pleasure (excludes fishing & water-skiing)	8.69	9.93	6.34	2.88
Sailing	0.83	0.99	0.61	0.29
Water-skiing or other towing sport	3.48	6.29	2.54	1.82
Windsurfing	0.97	1.32	0.71	0.38
<b>Hunting and Shooting Activities</b>				
Big game hunting (rifle)	11.40	0.99	8.32	0.29
Big game hunting (bow)	1.62	0.33	1.18	0.10
Waterfowl hunting	2.49	0.66	1.82	0.19
Upland bird or small game	5.61	1.32	4.10	0.38
Trapping	0.24	0.00	0.18	0.00
Rifle/pistol target shooting	14.93	3.31	10.90	0.96
Skeet/trap/sporting clay shooting	3.40	0.66	2.48	0.19
Archery (target shooting)	4.17	0.66	3.04	0.19

Table 3.4. Annual Statewide Percentage of Participation in Outdoor Recreation Activities Continued

Activity	Percent of Residents in Sample that Participated	Percent of Non-Residents in Sample that Participated	Percent of Residents in State Population that Participated	Percent of Non-Residents in Surveyed Out-of-State Population that Participated
<b>Nature Study Activities</b>				
Bird watching	28.54	19.87	20.84	5.76
Nature/wildlife observation	39.22	36.08	28.63	10.46
Outdoor photography	24.58	27.15	17.94	7.87
Tracking animal signs	7.95	4.30	5.80	1.25
Collecting (rocks, plants, mushrooms, berries, etc.)	22.98	18.21	16.78	5.28
<b>Swimming and Beach Activities</b>				
Freshwater Beach Activities	15.18	13.91	11.08	4.03
Ocean Beach Activities	31.19	45.70	22.77	13.25
Swimming in an outdoor pool	12.95	7.95	9.45	2.31
SCUBA diving or snorkeling	1.56	1.32	1.14	0.38
<b>Camping Activities</b>				
Bicycle camping	1.73	1.32	1.27	0.38
Boat camping	3.91	3.64	2.85	1.06
Horseback camping	1.06	0.66	0.77	0.19
Camping on an ocean beach	4.32	4.30	3.15	1.25
RV/trailer camping	16.64	24.83	12.15	7.20
ATV camping	2.02	1.66	1.48	0.48
Car camping with a tent	18.49	15.89	13.50	4.61
Snow camping	0.42	0.66	0.31	0.19
<b>Outdoor Sports and Games Activities</b>				
Golf	22.12	13.91	16.14	4.03
Baseball	5.09	1.66	3.72	0.48
Football/rugby	5.79	0.66	4.23	0.19
Ultimate Frisbee	1.04	0.33	0.76	0.10
Frisbee golf	0.00	0.33	0.00	0.10
Hang gliding	0.07	0.00	0.05	0.00
Skydiving	0.53	1.99	0.39	0.58
Rock climbing	1.96	1.32	1.43	0.38
Outdoor court games (volleyball, badminton)	4.13	1.32	3.02	0.38
Outdoor basketball	9.52	0.99	6.95	0.29
Outdoor Tennis	5.18	2.32	3.78	0.67
Soccer	5.52	1.66	4.03	0.48
Softball	5.17	11.92	3.77	3.46
Using park playground equipment	24.11	13.91	17.60	4.03

Table 3.4. Annual Statewide Percentage of Participation in Outdoor Recreation Activities Continued

Activity	Percent of Residents in Sample that Participated	Percent of Non-Residents in Sample that Participated	Percent of Residents in State Population that Participated	Percent of Non-Residents in Surveyed Out-of-State Population that Participated
<b>Trail, Road, and Beach Activities</b>				
Backpacking	5.13	2.98	3.74	0.86
Biking	23.07	9.93	16.84	2.88
Cross-country skiing/snowshoeing	3.44	2.65	2.51	0.77
Hiking	28.24	23.51	20.61	6.82
Orienteering	0.84	2.32	0.62	0.67
Horseback riding	5.07	6.29	3.70	1.82
In-line skating/ skateboarding	8.76	2.98	6.39	0.86
Running/walking for exercise	33.27	15.23	24.28	4.42
Walking for pleasure	45.25	39.40	33.03	11.43
All-terrain vehicle riding (3 & 4 wheeler, etc.)	7.74	4.97	5.65	1.44
Dune buggy riding	2.35	1.66	1.72	0.48
Four-wheel driving (jeeps, pickups, SUVs, etc.)	9.16	6.29	6.69	1.82
Motorcycling	4.40	3.64	3.21	1.06
Snowmobile	1.44	1.99	1.05	0.58
Other snow vehicle riding	0.16	0.99	0.12	0.29

Table 3.5 shows the percent of the population of each region (regional residents) that participates in each activity. There are many similarities across regions. The highest participation rate in all regions is for sightseeing/driving for pleasure, and all the regions west of the Cascades have walking for pleasure as the next highest participation rate. Wildlife observation, walking for pleasure, and picnicking show up in the top ten activities for every region. There are also some differences across regions. The Portland metro area is the only region where using park playground equipment shows up in the top ten, while fishing and target shooting activities are ranked higher in the regions east of the Cascades.



Table 3.5. Regional Percentage of Population Participation in Outdoor Recreation Activities

	Reg. 1	Reg. 2	Reg. 3	Reg. 4	Reg. 5	Reg. 6	Reg. 7	Reg. 8	Reg. 9	Reg. 10	Reg. 11	Out of State
<b>Picnicking, Sightseeing, and Touring Activities</b>												
Picnicking	23.64	19.73	27.48	26.30	28.85	31.63	29.43	29.59	34.12	25.13	30.86	12.10
Sightseeing/driving for pleasure	44.21	41.43	41.46	49.92	45.03	44.29	38.98	40.94	42.06	40.69	42.14	20.17
Train or bus touring	4.11	2.96	4.06	1.61	1.75	2.43	1.91	2.96	2.38	2.80	0.49	1.15
Visiting cultural/historical sites	31.36	28.61	25.24	18.25	25.35	28.23	27.90	23.18	19.83	22.74	22.54	15.08
<b>Non-motorized Snow Activities</b>												
Downhill skiing/ snowboarding/telemarking	2.57	9.37	8.11	2.15	4.81	5.84	11.47	5.42	9.13	6.38	2.45	4.23
Sledding or general snow play	3.60	8.39	9.46	3.22	11.37	11.19	12.61	13.81	15.48	12.37	8.82	2.78
<b>Fishing, Crabbing, and Clamming Activities</b>												
Fishing from a boat	23.64	12.83	18.93	21.47	18.80	17.52	22.17	19.73	18.25	17.16	21.56	5.95
Fishing from a bank or shore	21.08	16.28	17.57	22.54	20.98	26.28	28.67	30.09	32.54	27.13	32.34	3.55
Fishing from a dock or pier	9.26	3.95	3.61	6.98	4.81	5.84	4.20	2.96	7.14	6.38	5.88	0.58
Crabbing from a boat	13.88	2.47	7.66	8.58	3.06	1.46	3.06	2.96	1.19	2.39	2.94	1.92
Crabbing from a bank or shore	2.06	0.99	0.90	1.61	0.88	0.97	1.15	1.48	0.80	0.80	0.98	0.67
Crabbing from a dock or pier	5.66	3.45	4.06	6.98	4.37	1.95	1.15	3.95	1.19	1.20	0.98	0.67
Clamming	11.83	2.47	0.90	9.13	1.75	1.46	1.15	1.48	0.39	0.40	0.98	0.67
<b>Boating Activities</b>												
Canoeing	5.66	4.44	2.70	1.61	2.62	2.43	5.73	2.47	3.57	1.60	0.00	1.73
Sea Kayaking	1.54	0.99	0.45	2.15	0.00	0.49	0.00	0.00	0.39	0.80	0.49	0.19
White-Water Kayaking	0.51	0.50	0.90	2.69	3.06	1.95	2.67	0.50	0.39	0.80	0.98	0.29
White-Water Rafting	1.54	1.97	3.15	2.69	7.43	2.92	4.97	2.47	1.58	3.19	1.47	0.96
Personal watercraft (jet ski, wave runner, etc.)	1.54	0.99	2.26	1.07	0.88	3.41	1.15	2.96	2.38	0.80	0.49	1.44
Power boating for pleasure (excludes fishing & water-skiing)	8.23	7.40	3.61	5.91	3.50	7.30	5.73	8.88	2.77	5.58	8.33	2.88
Sailing	0.00	0.50	1.35	1.07	0.00	0.97	1.53	0.00	0.39	0.00	0.98	0.29
Water-skiing or other towing sport	1.03	2.47	1.80	2.15	1.75	4.87	5.73	4.93	1.19	4.39	5.39	1.82
Windsurfing	0.00	0.99	0.00	0.00	0.44	0.97	1.53	0.00	0.00	0.40	0.00	0.38

Table 3.5. Regional Percentage of Population Participation in Outdoor Recreation Activities Continued

	Reg. 1	Reg. 2	Reg. 3	Reg. 4	Reg. 5	Reg. 6	Reg. 7	Reg. 8	Reg. 9	Reg. 10	Reg. 11	Out of State
<b>Hunting and Shooting Activities</b>												
Big game hunting (rifle)	10.80	5.42	6.31	9.67	16.18	17.03	13.37	18.75	22.21	19.55	18.13	0.29
Big game hunting (bow)	3.60	0.50	1.80	1.61	1.31	2.92	2.29	3.95	3.18	2.39	4.41	0.10
Waterfowl hunting	2.57	1.48	0.90	0.54	2.62	3.89	3.06	6.41	7.14	2.80	5.39	0.19
Upland bird or small game	3.09	3.45	1.80	1.07	6.56	7.79	7.26	8.88	10.31	9.57	15.68	0.38
Trapping	0.00	0.00	0.45	0.00	0.00	0.49	1.15	1.48	1.99	0.80	0.00	0.00
Rifle/pistol target shooting	12.34	7.40	11.72	14.49	17.92	19.95	17.97	20.22	24.60	15.56	20.58	0.96
Skeet/trap/sporting clay shooting	3.09	1.48	3.61	1.61	3.06	7.30	4.20	4.44	6.35	4.79	5.88	0.19
Archery (target shooting)	3.60	2.47	3.15	2.69	4.37	2.92	4.97	5.42	3.57	3.99	4.41	0.19
<b>Nature Study Activities</b>												
Bird watching	21.59	19.73	19.83	27.92	26.23	18.01	19.11	25.65	26.98	16.35	21.07	5.76
Nature/wildlife observation	29.30	27.62	30.19	34.89	29.29	33.58	25.99	30.09	33.32	25.93	28.42	10.46
Outdoor photography	15.42	19.24	18.02	15.56	14.42	18.49	12.61	19.24	17.06	15.56	14.69	7.87
Tracking animal signs	6.68	3.95	7.21	8.05	7.87	8.76	11.47	7.89	13.88	8.38	10.29	1.25
Collecting (rocks, plants, mushrooms, berries, etc.)	27.76	13.81	19.83	30.59	22.29	19.95	12.61	12.33	23.81	18.75	17.64	5.28
<b>Swimming and Beach Activities</b>												
Freshwater Beach Activities	8.68	9.86	13.88	12.34	12.41	13.14	13.92	6.41	10.31	9.13	6.81	4.03
Ocean Beach Activities	36.24	22.20	28.21	33.28	20.81	15.09	12.04	14.80	5.95	6.75	10.71	13.25
Swimming in an outdoor pool	5.10	8.39	9.86	5.91	11.32	14.11	15.80	14.30	11.50	7.54	9.73	2.31
SCUBA diving or snorkeling	2.56	0.99	0.45	2.15	2.19	1.95	0.75	1.48	1.58	0.80	1.46	0.38
<b>Camping Activities</b>												
Bicycle camping	2.06	0.99	0.90	0.00	3.06	2.43	1.15	1.97	2.38	0.40	2.45	0.38
Boat camping	0.51	2.47	3.15	3.22	3.50	2.92	5.35	1.48	1.99	5.18	3.92	1.06
Horseback camping	1.03	0.50	1.35	0.00	0.44	1.46	1.91	0.50	2.77	3.99	0.98	0.19
Camping on an ocean beach	3.09	2.47	4.96	2.69	5.68	4.38	1.91	1.48	2.77	1.60	0.98	1.25
RV/trailer camping	11.83	9.37	13.52	11.81	19.67	20.44	15.29	16.77	18.64	19.55	12.74	7.20
ATV camping	2.06	1.97	0.00	1.07	0.88	0.97	1.53	0.99	1.99	2.80	0.98	0.48
Car camping with a tent	12.34	12.33	15.77	12.88	16.61	12.17	15.29	14.30	10.71	12.77	15.19	4.61
Snow camping	0.51	0.00	0.00	0.00	0.88	1.46	2.29	1.48	0.80	1.60	0.00	0.19

Table 3.5. Regional Percentage of Population Participation in Outdoor Recreation Activities Continued

	Reg. 1	Reg. 2	Reg. 3	Reg. 4	Reg. 5	Reg. 6	Reg. 7	Reg. 8	Reg. 9	Reg. 10	Reg. 11	Out of State
<b>Outdoor Sports and Games Activities</b>												
Golf	15.32	17.75	14.33	10.74	11.32	13.63	17.69	13.81	11.11	13.88	15.09	4.03
Baseball	4.08	3.95	2.69	3.22	1.83	6.33	4.89	5.42	6.35	5.56	3.89	0.48
Football/rugby	6.12	3.45	7.61	4.29	2.56	3.89	6.02	2.96	5.56	3.57	2.43	0.19
Ultimate Frisbee	1.02	0.50	1.34	1.07	1.10	1.46	0.38	0.00	1.58	1.58	0.00	0.10
Frisbee golf	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Hang gliding	0.00	0.00	0.00	0.00	0.73	0.49	0.75	0.00	0.00	0.39	0.00	0.00
Skydiving	0.51	0.50	0.45	0.00	0.00	0.97	0.00	0.00	0.39	0.00	0.00	0.58
Rock climbing	2.56	0.50	2.24	4.83	3.65	1.95	3.39	2.47	4.76	1.19	1.46	0.38
Outdoor court games (volleyball, badminton)	3.07	2.47	5.37	3.22	2.92	2.92	2.26	2.47	1.99	1.99	2.43	0.38
Outdoor basketball	7.15	8.39	3.58	5.37	4.02	10.22	5.64	6.41	3.57	4.37	5.84	0.29
Outdoor Tennis	3.07	4.44	3.58	2.69	1.83	2.92	4.14	2.47	2.38	1.58	2.43	0.67
Soccer	6.12	3.95	4.47	3.22	4.02	3.41	4.89	4.44	0.39	3.57	4.38	0.48
Softball	4.59	3.45	5.83	3.76	3.29	3.41	4.52	2.96	1.58	2.77	4.38	3.46
Using park playground equipment	14.29	20.72	11.20	11.27	13.14	17.52	14.67	16.77	12.69	11.90	12.17	4.03
<b>Trail, Road, and Beach Activities</b>												
Backpacking	4.11	2.96	4.06	2.69	6.12	3.89	5.73	2.47	3.18	9.57	4.90	0.86
Biking	12.86	18.25	21.18	8.05	10.49	13.14	15.29	14.80	14.29	13.56	8.33	2.88
Cross-country skiing/snowshoeing	0.51	2.96	2.26	0.54	1.31	0.97	5.73	0.50	2.38	2.39	0.98	0.77
Hiking	17.99	22.20	22.53	16.10	17.48	12.65	20.26	12.83	14.68	14.76	11.76	6.82
Orienteering	0.51	0.50	0.90	0.00	0.88	0.49	1.15	0.50	1.19	0.80	0.98	0.67
Horseback riding	6.17	2.96	3.61	3.22	4.81	7.79	4.20	3.45	9.92	9.57	6.37	1.82
In-line skating/ skateboarding	6.17	6.91	5.41	2.15	6.56	6.33	7.64	4.44	7.14	5.18	4.90	0.86
Running/walking for exercise	29.82	22.20	29.74	26.83	24.91	22.87	29.43	24.17	25.00	21.54	23.02	4.42
Walking for pleasure	40.61	34.03	31.09	35.43	33.66	27.25	26.37	32.55	22.21	26.73	24.99	11.43
All-terrain vehicle riding (3 & 4 wheeler, etc.)	7.20	4.44	5.85	5.91	7.87	11.68	5.73	6.41	8.33	13.56	7.84	1.44
Dune buggy riding	2.06	1.97	2.70	1.07	0.44	0.97	0.00	0.00	0.39	1.20	1.96	0.48
Four-wheel driving (jeeps, pickups, SUVs, etc.)	5.66	5.42	5.41	7.51	11.80	12.17	8.02	5.92	11.90	13.16	11.27	1.82
Motorcycling	3.60	2.96	3.61	2.69	3.50	5.84	2.67	2.47	1.58	4.79	2.45	1.06
Snowmobile	0.51	0.50	1.35	0.00	1.31	5.35	2.29	3.95	1.99	4.39	1.96	0.58
Other snow vehicle riding	0.51	0.00	0.00	0.00	0.44	0.49	0.38	0.50	0.00	0.40	0.98	0.29

## **TRAIL USE**

The survey included a number of different recreation activities that take place on trails. Since trails are such an important component of local recreation planning, the use of different types of trails and different types of surfaces are summarized in Table 3.6. It was assumed that all backpacking use takes place on unsurfaced backcountry trails. For biking, only 36% of user days take place on backcountry or local community trails, and 76% of that use is on surfaced trails. Seventy percent of hiking takes place on local community or backcountry trails, but unlike biking, 90% of the use is on unsurfaced trails. Three-quarters of horseback riding takes place on designated bridle trails, and nearly all of that use is on unsurfaced trails.

Running and walking for exercise are mostly done on city streets and sidewalks, as only 18% takes place on local community or backcountry trails. Most of the trails being used for this purpose are surfaced (70%). Walking for pleasure shows similar characteristics, with only 28% taking place on local community or backcountry trails, and 57% of that use taking place on surfaced trails. Summing all the uses of local community, backcountry, and bridle trails, there is nearly an equal amount taking place on unsurfaced and surfaced trails.

For motorized use, only 18% of ATV and motorcycle riding takes place on trails designated for this type of use, and hardly any (1%) on and off-trail 4-wheel driving (jeeps, pickups, SUV's, etc.) was reported to take place on designated trails. Conversely, 53% of snowmobile use was reported to take place on designated snowmobile trails.



Table 3.6. Demand for Trail Activities

Backpacking				All biking (all locations, all surfaces)				Biking on local community and backcountry trails (surfaced and unsurfaced)			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	56,301			1	550,348			1	148,594		
2	425,027			2	3,526,071			2	1,480,950		
3	245,353			3	1,203,858			3	361,157		
* 4	30,675			4	239,922			4	79,174		
5	169,945			5	700,168			5	126,030		
* 6	13,841			6	157,317			6	70,793		
7	103,949			7	666,504			7	273,267		
* 8	61,412			8	139,816			8	81,093		
* 9	2,186			9	14,430			9	3,174		
10	31,416			10	147,693			10	35,446		
* 11	6,944			11	70,006			11	25,202		
<b>Tot</b>	<b>1,147,048</b>			<b>Tot</b>	<b>7,416,134</b>			<b>Tot</b>	<b>2,684,882</b>		
<b>Biking on surfaced local community and backcountry trails</b>				<b>Biking on unsurfaced local community and backcountry trails</b>				<b>Cross-country skiing/ snowshoeing</b>			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	112,931			1	35,663			* 1	0		
2	1,125,522			2	355,428			* 2	326,339		
3	274,480			3	86,678			* 3	43,182		
4	60,172			4	19,002			* 4	0		
5	95,783			5	30,247			* 5	80,678		
6	53,803			6	16,990			* 6	14,288		
7	207,683			7	65,584			7	58,121		
8	61,631			8	19,462			* 8	11,505		
9	2,413			9	762			* 9	2,178		
10	26,939			10	8,507			* 10	11,655		
11	19,154			11	6,049			* 11	5,501		
<b>Tot</b>	<b>2,040,510</b>			<b>Tot</b>	<b>644,372</b>			<b>Tot</b>	<b>553,446</b>		

\* Less than 10 observations

Table 3.6. Demand for Trail Activities Continued

Orienteering				All hiking (all locations, all surfaces)				Hiking on local community or backcountry trails (all surfaces)			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
* 1	14,072			1	993,897			1	646,033		
* 2	155,174			2	1,281,218			2	896,853		
* 3	60,482			3	742,397			3	608,765		
* 4	31,857			4	168,423			4	84,211		
* 5	0			5	473,446			5	288,802		
* 6	14,139			6	55,117			6	30,314		
* 7	28,686			7	489,255			7	415,867		
* 8	6,688			8	61,099			8	40,937		
* 9	637			9	14,823			9	9,487		
* 10	8,736			10	167,985			10	127,668		
* 11	4,029			11	58,420			11	23,368		
<b>Tot</b>	<b>324,500</b>			<b>Tot</b>	<b>4,506,079</b>			<b>Tot</b>	<b>3,172,305</b>		
Hiking on unsurfaced local community or backcountry trails				Hiking on surfaced local community or backcountry trails				All horseback riding (all locations and all surfaces)			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	581,430			1	92,083			1	150,428		
2	807,168			2	65,046			2	901,094		
3	547,889			3	60,214			* 3	303,645		
4	75,790			4	7,816			* 4	95,700		
5	259,922			5	28,880			5	186,062		
6	27,283			6	3,031			6	68,064		
7	374,280			7	38,145			7	186,474		
8	36,843			8	4,094			* 8	87,094		
9	8,538			9	949			9	6,028		
10	114,902			10	12,000			10	60,890		
11	21,031			11	2,337			11	65,681		
<b>Tot</b>	<b>2,855,075</b>			<b>Tot</b>	<b>314,594</b>			<b>Tot</b>	<b>2,111,160</b>		

\* Less than 10 observations

Table 3.6. Demand for Trail Activities Continued

Horseback riding on local community or backcountry trails (all surfaces)				Horseback riding on surfaced local community or backcountry trails				Horseback riding on unsurfaced local community or backcountry trails			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	112,821			1	9,026			1	103,795		
2	675,821			2	54,066			2	621,755		
* 3	227,734			* 3	18,219			* 3	209,515		
* 4	71,775			* 4	5,742			* 4	66,033		
5	139,546			5	11,164			5	128,383		
6	51,048			6	4,084			6	46,964		
7	139,856			7	11,188			7	128,667		
* 8	65,321			* 8	5,226			* 8	60,095		
9	4,521			9	362			9	4,159		
10	45,667			10	3,653			10	42,014		
11	49,261			11	3,941			11	45,320		
<b>Tot</b>	<b>1,583,370</b>			<b>Tot</b>	<b>126,670</b>			<b>Tot</b>	<b>1,456,700</b>		
<b>In-line skating/ skateboarding</b>				<b>All running/ walking for exercise (all locations, all surfaces)</b>				<b>Running/ walking for exercise on local community or backcountry trails (all surfaces)</b>			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	490,512			1	2,130,612			1	213,061		
2	3,352,529			2	26,448,833			2	4,231,813		
3	536,138			3	6,502,956			3	1,235,562		
* 4	97,014			4	1,541,354			4	308,271		
5	567,475			5	5,840,971			5	817,736		
6	144,829			6	1,166,713			6	431,684		
7	313,489			7	2,374,268			7	736,023		
8	89,485			8	721,522			8	252,533		
9	12,929			9	107,553			9	16,133		
10	98,339			10	818,898			10	147,402		
* 11	42,315			11	1,591,641			11	254,663		
<b>Tot</b>	<b>5,745,053</b>			<b>Tot</b>	<b>49,245,320</b>			<b>Tot</b>	<b>8,644,879</b>		

\* Less than 10 observations

Table 3.6. Demand for Trail Activities Continued

Running/ walking for exercise on surfaced local community or backcountry trails				Running/ walking for exercise on unsurfaced local community or backcountry trails				All Walking for pleasure (all locations, all surfaces)			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	149,143			1	63,918			1	3,921,376		
2	2,962,269			2	1,269,544			2	25,702,041		
3	864,893			3	370,668			3	6,140,535		
4	215,790			4	92,481			4	1,394,333		
5	572,415			5	245,321			5	5,134,430		
6	302,179			6	129,505			6	959,266		
7	515,216			7	220,807			7	1,986,912		
8	176,773			8	75,760			8	842,306		
9	11,293			9	4,840			9	377,081		
10	103,181			10	44,221			10	842,486		
11	178,264			11	76,399			11	362,256		
<b>Tot</b>	<b>6,051,416</b>			<b>Tot</b>	<b>2,593,464</b>			<b>Tot</b>	<b>47,663,023</b>		
Walking for pleasure on local community or backcountry trails (all surfaces)				Walking for pleasure on surfaced local community or backcountry trails				Walking for pleasure on unsurfaced local community or backcountry trails			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	313,710			1	178,815			1	134,895		
2	7,453,592			2	4,248,547			2	3,205,045		
3	1,842,161			3	1,050,032			3	792,129		
4	278,867			4	158,954			4	119,913		
5	1,797,051			5	1,024,319			5	772,732		
6	450,855			6	256,987			6	193,868		
7	655,681			7	373,738			7	281,943		
8	219,000			8	124,830			8	94,170		
9	94,270			9	53,734			9	40,536		
10	168,497			10	96,043			10	72,454		
11	43,471			11	24,778			11	18,692		
<b>Tot</b>	<b>13,317,154</b>			<b>Tot</b>	<b>7,590,778</b>			<b>Tot</b>	<b>5,726,376</b>		

\* Less than 10 observations

Table 3.6. Demand for Trail Activities Continued

Hiking, Biking, Backpacking, Horseback Riding, Walking and Running on surfaced backcountry or local community trails				Hiking, Biking, backpacking, horseback riding, walking and running on unsurfaced trails				Total on and off-trail All-terrain vehicle riding (3 & 4-wheeler)			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
1	541,998			1	1,223,317			1	578,267		
2	8,455,451			2	6,462,214			* 2	183,867		
3	2,267,837			3	2,246,273			3	186,909		
4	448,473			4	398,443			4	185,181		
5	1,732,561			5	1,606,549			5	204,204		
6	620,084			6	428,451			6	93,980		
7	1,145,970			7	1,144,250			7	117,287		
8	372,553			8	347,742			* 8	43,498		
9	68,750			9	61,022			9	32,793		
10	241,817			10	306,609			10	395,191		
11	228,473			11	174,435			11	141,273		
<b>Tot</b>	<b>16,123,967</b>			<b>Tot</b>	<b>14,399,306</b>			<b>Tot</b>	<b>2,162,449</b>		
<b>Total on and off trail Dune buggy riding</b>				<b>Total on and off-trail 4-wheel driving (jeeps, pickups, SUV's, etc.)</b>				<b>Motorcycling</b>			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
* 1	48,964			1	353,381			* 1	163,630		
* 2	2,796			2	333,973			* 2	293,258		
* 3	35,690			* 3	121,388			* 3	108,789		
* 4	7,516			4	160,804			* 4	60,085		
* 5	1,024			5	209,807			* 5	109,251		
* 6	0			6	212,118			6	43,365		
* 7	0			7	261,616			* 7	148,878		
* 8	0			8	95,569			* 8	30,749		
* 9	782			9	12,410			* 9	21,478		
* 10	4,398			10	398,848			10	113,261		
* 11	0			11	94,631			* 11	28,117		
<b>Tot</b>	<b>101,169</b>			<b>Tot</b>	<b>2,254,544</b>			<b>Tot</b>	<b>1,120,861</b>		

\* Less than 10 observations

Table 3.6. Demand for Trail Activities Continued

Total on and off-trail snowmobile				Total on and off trail Other snow vehicle riding				Designated trail Motorcycling and All-terrain vehicle riding (3 & 4 wheeler, etc.)			
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions			Region	2002 Demand: user occasions		
* 1	0			* 1	0			1	133,542		
* 2	19,915			* 2	0			2	85,882		
* 3	0			* 3	0			3	53,226		
* 4	0			* 4	0			4	44,148		
* 5	238,904			* 5	0			5	56,422		
* 6	20,300			* 6	155,074			6	24,722		
* 7	17,545			* 7	0			7	47,910		
* 8	13,226			* 8	19,554			8	13,364		
* 9	9,276			* 9	0			9	9,769		
* 10	86,198			* 10	37,675			10	91,521		
* 11	10,831			* 11	0			11	30,490		
<b>Tot</b>	<b>416,195</b>			<b>Tot</b>	<b>212,302</b>			<b>Tot</b>	<b>590,996</b>		
Designated trail four-wheel driving (jeeps, pickups, SUV's, etc.)				Designated trail Snowmobile							
Region	2002 Demand: user occasions			Region	2002 Demand: user occasions						
1	3,534			* 1	0						
2	3,340			* 2	2,589						
* 3	1,214			* 3	0						
4	1,608			* 4	0						
5	2,098			* 5	31,057						
6	2,121			* 6	2,639						
7	2,616			* 7	2,281						
8	956			* 8	1,719						
9	124			* 9	1,206						
10	3,988			10	11,206						
11	946			* 11	1,408						
<b>Tot</b>	<b>22,545</b>			<b>Tot</b>	<b>54,105</b>						

\* Less than 10 observations

## **OUTDOOR RECREATION RESOURCE SETTINGS**

Recreation resource settings can range from very primitive to highly developed. Recreationists choose the settings for their activities that optimize their experience. However, sometimes the preferred settings are not available to the recreationist at a reasonable cost of distance (or time), and the recreationist chooses a less-preferred setting. It is also possible that some recreationists say that they prefer a less-developed setting, but consistently choose a more developed setting because of the amenities or conveniences associated with the more-developed setting (e.g., toilets, paved roads). In other words, people prefer the social aspects of a primitive setting (few people) but the facilities of a developed setting. Since definitions (and the reality) of recreation resource settings combine social and facility characteristics, recreationists cannot always get the combination of characteristics that they prefer.

Respondents were asked to state their favorite outdoor recreation activity that they did in Oregon most often during the past three months. They were then asked to indicate the one setting where they actually did their favorite activity most often, as well as the one setting where they would prefer to do their favorite activity most often. There were nine outdoor recreation settings from which to choose, defined as:

**Primitive:** An unmodified, natural setting where you will meet few, if any, other people. Access is cross-country travel to fairly difficult trails. Motorized use is prohibited. Recreation facilities are generally not provided.

**Semi-Primitive:** A predominantly natural environment where you will occasionally meet other people. Access is generally by trail. Primitive roads may exist, but are often closed to motorized use. Few recreation facilities are provided. Those that exist are minimal and rustic.

**Roaded Natural:** Forest, range, and coastal settings that generally appear natural or slightly altered. Access is by trail, road, or highway. Expect to meet moderate numbers of people. Recreation facilities such as developed campgrounds may exist. There may also be some opportunities away from others in spots with no facilities.

**Roaded Modified:** Settings where nature has obviously been altered through such activities as timber harvesting, mining, farming, or grazing. Road access is usual. Developed campgrounds may be available in some locations. Expect to meet other people in trucks, cars, and on motorbikes. One may be able to get away from others in remote camp spots.

**Rural:** Rural area where development such as farms, houses, stores, or equipment is commonly visible. Access is by paved road and the interaction between people can be moderate to high. Rustic bathrooms and showers, some electricity, lighted fields, etc., may be provided. Facilities for motorized use and parking are available.

**Highly Developed:** A largely developed setting with extensive paving and buildings, highly maintained vegetation, heavy interaction and visitor controls within an open space context. Examples would be interpretive centers, ski areas, or major camping areas within a larger National Forest or Oregon State Park.

**Nature-Dominated Within Urban:** Apparently undisturbed, natural environment, with limited development within an urban context. Expect moderate to high interaction and visual or noise disturbance. An example would be a nature preserve within a city.

**Park-Like Within Urban:** Primarily maintained grass and shade tree environment within an urban setting. There will be moderate to extensive facilities, and a heavy amount of interaction between people. An example would be a day use or picnic area within a city.

**Facility-Dominant Within Urban:** Predominantly built setting of pavement and structures, intended for leisure or recreation use within the urban context. Expect a high level of interaction, management, and visitor controls. Areas may include small areas of grass, other vegetation, and/or shade trees growing within a paved area. Examples would be paved plaza parks or ornamental gardens.

In order to maintain sufficient sample sizes within cells (74 activities by 9 setting categories), survey responses for favorite activity were coded into the broad categories on the mail survey (resulting in 10 activities by 9 setting categories). For respondents that stated more than one favorite activity, their response was coded as “other.” There were also a number of respondents who didn’t specify a favorite activity, yet answered the question about preferred and actual settings. Their favorite activity was also coded as “other.” Statewide results for actual vs. preferred settings are shown in Table 3.7. In general, people would prefer to be recreating in less developed settings than they actually choose, and this is consistent across recreation activities. For the primitive setting, there were nearly twice as many respondents (40%) who would prefer to do hunting and shooting activities in this setting than any other type of recreation. The activity with the most respondents preferring a highly developed (non-urban) setting was non-motorized snow activities (32%), while less than 1% of those engaging in hunting and shooting or nature study activities preferred a highly developed setting. The largest discrepancy between actual vs. preferred settings was for boating activities (20% used nature-dominant within urban settings and 0% preferred this setting), followed closely by hunting and shooting activities (40% preferred primitive settings and only 22% actually used these settings).



Table 3.7. Statewide Demand for Outdoor Recreation Resource Settings (by percent)

Activity	Primitive		Semi-Primitive		Roaded Natural		Roaded Modified		Rural		Highly Developed		Nature-Dominant within Urban		Park-Like within Urban		Facility-Dominant within Urban	
	Used	Preferred	Used	Preferred	Used	Preferred	Used	Preferred	Used	Preferred	Used	Preferred	Used	Preferred	Used	Preferred	Used	Preferred
Picnicking, Sightseeing, and Touring Activities	8.47	14.29	8.47	12.70	37.29	41.27	8.47	9.52	10.17	9.52	13.56	7.94	5.08	1.59	5.08	3.17	3.39	0.00
Non-motorized Snow Activities	7.69	20.00	7.69	16.00	7.69	12.00	19.23	8.00	0.00	4.00	42.31	32.00	3.85	4.00	3.85	0.00	7.69	4.00
Fishing, Crabbing, and Clamming Activities	19.08	20.00	13.74	25.19	34.35	34.07	12.21	11.85	12.21	2.96	5.34	5.19	0.76	0.74	1.53	0.00	0.76	0.00
Boating Activities	12.00	21.05	12.00	26.32	20.00	26.32	8.00	10.53	20.00	10.53	8.00	5.26	20.00	0.00	0.00	0.00	0.00	0.00
Hunting and Shooting Activities	22.00	40.38	25.00	22.12	26.00	21.15	19.00	11.54	6.00	2.88	1.00	0.96	0.00	0.96	1.00	0.00	0.00	0.00
Nature Study Activities	8.06	16.13	16.13	29.03	35.48	33.87	9.68	8.06	16.13	9.68	3.23	0.00	6.45	3.23	4.84	0.00	0.00	0.00
Swimming and Beach Activities	4.92	13.33	13.11	18.33	36.07	36.67	6.56	11.67	16.39	10.00	13.11	3.33	1.64	1.67	6.56	3.33	1.64	1.67
Camping Activities	4.27	6.63	9.76	11.45	35.98	37.95	15.24	17.47	9.15	6.02	22.56	18.67	0.61	0.60	1.22	0.00	1.22	1.20
Outdoor Sports and Games Activities	1.47	5.08	2.94	6.78	7.35	13.56	5.88	8.47	16.18	11.86	22.06	13.56	5.88	11.86	32.35	22.03	5.88	6.78
Trail, Road, and Beach Activities	11.23	21.84	16.74	28.37	25.64	26.33	6.36	3.88	12.71	6.12	6.78	4.08	4.66	3.67	8.90	4.08	6.99	1.63
Not Specified	10.62	17.96	14.29	21.13	31.87	33.45	9.52	7.75	15.02	6.69	8.42	7.04	1.83	2.46	6.96	2.46	1.47	1.06

## **ESTIMATING NEEDS**

Following the Florida methodology, only peak use is estimated for the needs assessment. While Florida assumed peak use was 52 2-day weekends and seven holidays of the year, OPRD recommended consideration of 3-day weekends to represent the heavy use that begins on the Friday of every weekend. The analysis was done using both 2-day and 3-day weekends, but only the 2-day weekend (i.e., 111 days over the year) analysis is used for the relative needs priority index. The analysis showed that using 3-day weekends would have resulted in fewer needs across regions. This indicates that the additional supply created by including the third day exceeds the additional demand on that day.

In order to calculate peak use, the number of times that respondents reported they participated in a given activity on weekends or holidays was divided by the total times reported for that activity. That proportion of weekend/holiday use was then applied to the estimate of total days to get peak use.

An inventory of recreation facilities was conducted by OPRD. In order to compare peak demand with peak supply, resource and facility use guidelines were applied to the inventory data. These guidelines convert supply, measured in resource or facility units, into the maximum number of user days that the facility can accommodate during peak times. Resource and facility guidelines from previous studies were used in this analysis (these guidelines are shown in Table 3.8).

Not every recreation activity in the demand analysis will have a corresponding facility or resource capacity. Some types of resources are so plentiful that supply is virtually unlimited, and other types of use were lacking inventory information. Table 3.8 shows the statewide peak user days and the facility needs for each activity by region (those regions where demand exceeds supply are highlighted). Both current and 5-year projections are shown. Following the Florida methodology, use was projected to grow at the same rate as population. State of Oregon population projections were used to estimate the 2007 demand. When a facility inventory was given but no guideline was available, a “user density” was calculated showing users/per unit of supply.



Table 3.8. Current and Future Needs by Activity and Region

Activity: Picnicking	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Day Use Picnic Tables	Guideline Applied: users per table/ day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	637,321	420632	462695	1234	8	1095792	-675160	-633097	-760.3	-712.9	
	2	1,782,181	1176239	1293863	8349	8	7413912	-6237673	-6120049	-7024.4	-6891.9	
	3	392,530	259070	284977	4335	8	3849480	-3590410	-3564503	-4043.3	-4014.1	
	4	183,192	120907	132997	1233	8	1094904	-973997	-961907	-1096.8	-1083.2	
	5	524,909	346440	381084	2377	8	2110776	-1764336	-1729692	-1986.9	-1947.9	
	6	109,696	72400	79640	1289	8	1144632	-1072232	-1064992	-1207.5	-1199.3	
	7	167,287	110409	121450	2951	8	2620488	-2510079	-2499038	-2826.7	-2814.2	
	8	49,393	32599	35859	1227	8	1089576	-1056977	-1053717	-1190.3	-1186.6	
	9	12,187	8043	8848	624	8	554112	-546069	-545264	-614.9	-614.0	
	10	87,960	58054	63859	2237	8	1986456	-1928402	-1922597	-2171.6	-2165.1	
	11	51,988	34312	37743	319	8	283272	-248960	-245529	-280.4	-276.5	
	<b>Tot.</b>	<b>3,998,644</b>	<b>2639105</b>	<b>2903015</b>	<b>26175</b>	<b>8</b>	<b>23243400</b>	<b>-20604295</b>	<b>-20340385</b>	<b>-23203.0</b>	<b>-22905.8</b>	
<b>Activity: Sightseeing/ driving for pleasure</b>					Backcountry roads -unpaved, miles							users per mile per year for Backcountry roads - unpaved
	1	2,410,370	1494429	1643872	5096							293
	2	4,745,025	2941915	3236107	4510							652
	3	1,362,167	844543	928998	9384							90
	4	510,692	316629	348292	3344							95
	5	1,273,103	789324	868256	13918			no known guideline				57
	6	740,572	459154	505070	2958							155
	7	668,748	414624	456086	9071							46
	8	145,338	90110	99121	10915							8
	9	50,285	31176	34294	13095							2
	10	265,997	164918	181410	20214							8
	11	171,562	106369	117006	5089							21
	<b>Tot.</b>	<b>12,343,859</b>	<b>7653193</b>	<b>8418512</b>	<b>97595</b>							<b>78</b>

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Train or bus touring	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	10,350	5175	5693								
	2	94,383	47192	51911								
*	3	5,582	2791	3070								
*	4	13,355	6677	7345								
*	5	0	0	0				no known guideline				
*	6	1,854	927	1019								
*	7	2,118	1059	1165								
*	8	8,687	4344	4778								
*	9	125	62	69								
*	10	4,268	2134	2347								
*	11		0	0								
	<b>Tot</b>	<b>140,721</b>	<b>70361</b>	<b>77397</b>								
<b>Activity: Visiting cultural/historical sites</b>					Cultural Historical Sites	users per site per day						
	1	353,733	205165	225682	31	220	757020	-551855	-531338	-22.6	-21.8	
	2	1,385,474	803575	883932	103	220	2515260	-1711685	-1631328	-70.1	-66.8	
	3	205,532	119209	131130	91	220	2222220	-2103011	-2091090	-86.1	-85.6	
	4	89,159	51712	56883	23	220	561660	-509948	-504777	-20.9	-20.7	
	5	224,490	130204	143225	30	220	732600	-602396	-589375	-24.7	-24.1	
	6	100,230	58133	63947	22	220	537240	-479107	-473293	-19.6	-19.4	
	7	104,031	60338	66372	14	220	341880	-281542	-275508	-11.5	-11.3	
	8	146,467	84951	93446	7	220	170940	-85989	-77494	-3.5	-3.2	
	9	4,679	2714	2985	1	220	24420	-21706	-21435	-0.9	-0.9	
	10	78,911	45768	50345	51	220	1245420	-1199652	-1195075	-49.1	-48.9	
	11	65,621	38060	41866	11	220	268620	-230560	-226754	-9.4	-9.3	
	<b>Tot</b>	<b>2,758,327</b>	<b>1599830</b>	<b>1759813</b>	<b>384</b>	<b>220</b>	<b>9377280</b>	<b>-7777450</b>	<b>-7617467</b>	<b>-318.5</b>	<b>-311.9</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Downhill skiing/ snow boarding/ telemarking at commercial areas	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Downhill ski lift capacity	Guideline Applied: Users per single person capacity	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
					Downhill ski lift capacity	users per single person capacity						
	1	0	0	0	0	1	0	0	0	0.0	0.0	
	2	1,315,191	920634	1012697	31145	1	3457095	-2536461	-2444398	-22851.0	-22021.6	
	3	120,088	84061	92467	8500	1	943500	-859439	-851033	-7742.7	-7667.0	
	4	0	0	0	0	1	0	0	0	0.0	0.0	
	5	123,107	86175	94792	5450	1	604950	-518775	-510158	-4673.7	-4596.0	
	6	11,405	7984	8782	3000	1	333000	-325016	-324218	-2928.1	-2920.9	
	7	388,341	271838	299022	26280	1	2917080	-2645242	-2618058	-23831.0	-23586.1	
	8	0	0	0	0	1	0	0	0	0.0	0.0	
	9	29,503	20652	22717	30	1	3330	17322	19387	156.1	174.7	
	10	156,258	109380	120318	1600	1	177600	-68220	-57282	-614.6	-516.1	
	11	0	0	0	0	1	0	0	0	0.0	0.0	
	<b>Tot</b>	<b>2,143,892</b>	<b>1500725</b>	<b>1650797</b>	<b>76005</b>		<b>8436555</b>	<b>-6935830</b>	<b>-6785758</b>	<b>-62485.0</b>	<b>-61133.0</b>	
Activity: Sledding or general snow play	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	5,588	4024	4426								
	2	745,335	536641	590305								
	3	65,876	47431	52174								
	4	10,249	7380	8118								
	5	109,410	78775	86653				no known guideline				
	6	130,735	94130	103543								
	7	313,297	225574	248131								
	8	36,184	26053	28658								
	9	88,057	63401	69742								

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\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

	10	108,493	78115	85927								
	11	10,089	7264	7991								
		<b>1,623,316</b>	<b>1168788</b>	<b>1285666</b>								
<b>Activity: Fishing from a boat</b>												
	1	1,198,193	706934	777627								
	2	1,320,534	779115	857027								
	3	374,544	220981	243079								
	4	543,142	320454	352499								
	5	475,015	280259	308285			no known guideline					
	6	393,467	232146	255360								
	7	330,985	195281	214809								
	8	125,835	74242	81667								
	9	44,572	26297	28927								
	10	350,640	206878	227565								
	11	85,830	50640	55704								
	<b>Tot.</b>	<b>5,242,758</b>	<b>3093227</b>	<b>3402550</b>								
<b>Activity: Fishing from a bank or shore</b>	<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied: none</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
	1	757,909	462325	508557								
	2	1,080,602	659167	725084								
	3	828,155	505175	555692								
	4	301,837	184120	202533								
	5	817,528	498692	548561			no known guideline					
	6	310,308	189288	208217								
	7	610,158	372196	409416								
	8	109,085	66542	73196								
	9	90,918	55460	61006								
	10	298,192	181897	200087								
	11	233,977	142726	156998								
	<b>Tot</b>	<b>5,438,668</b>	<b>3317588</b>	<b>3649346</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Fishing from a dock or pier					Fishing Piers: linear feet	5 linear ft per user per day						
	1	272,936	177408	195149	4251	0.2	94372	83036	100777	3740.4	4539.5	
*	2	60,211	39137	43051	8502	0.2	188744	-149607	-145693	-6739.1	-6562.8	
*	3	91,141	59242	65166	53372	0.2	1184858	-1125617	-1119693	-50703.5	-50436.6	
	4	102,221	66444	73088	3995	0.2	88689	-22245	-15601	-1002.0	-702.7	
*	5	96,665	62832	69115	1648	0.2	36586	26247	32530	1182.3	1465.3	
	6	71,012	46158	50773	1912	0.2	42446	3711	8327	167.2	375.1	
*	7	44,229	28749	31623	1988	0.2	44134	-15385	-12510	-693.0	-563.5	
*	8	2,412	1568	1724	2110	0.2	46842	-45274	-45118	-2039.4	-2032.3	
	9	29,854	19405	21346	1138	0.2	25264	-5858	-3918	-263.9	-176.5	
	10	33,195	21577	23735	1028	0.2	22822	-1245	913	-56.1	41.1	
	11	12,316	8005	8806	220	0.2	4884	3121	3922	140.6	176.7	
	<b>Tot</b>	<b>816,191</b>	<b>530524</b>	<b>583577</b>	<b>80164</b>	<b>0.2</b>	<b>1779641</b>	<b>-1249116</b>	<b>-1196064</b>	<b>-56266.5</b>	<b>-53876.8</b>	
Activity: Fishing at a lake from dock/ pier/ boat/ shore	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Outdoor recreational water: acres	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (users per acre per year for outdoor recreational water)
	1	178,323	115910	127501	7429							16
	2	319,975	207984	228782	32258							6
	3	698,674	454138	499552	63594							7
	4	151,552	98509	108360	7462							13
	5	777,956	505672	556239	25853			no known guideline				20
	6	193,697	125903	138493	32728							4
	7	936,103	608467	669314	77961							8
	8	206,478	134211	147632	379919							0
	9	160,384	104250	114675	118063							1
	10	422,857	274857	302343	28474							10
	11	298,910	194292	213721	44560							4
	<b>Tot</b>	<b>4,344,910</b>	<b>2824191</b>	<b>3106610</b>	<b>818301</b>							<b>3</b>

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

<b>Activity: Crabbing from a boat</b>													
	1	531,887	351046	386150				no known guideline					
	4	202,726	133799	147179									
	<b>Tot</b>	<b>734,614</b>	<b>484845</b>	<b>533329</b>									
<b>Activity: Crabbing from a bank or shore</b>													
	1	10,181	6516	7168				no known guideline					
	4	4,370	2797	3077									
	<b>Tot</b>	<b>14,552</b>	<b>9313</b>	<b>10244</b>									
<b>Activity: Crabbing from a dock or pier</b>	<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied: none</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>	
	1	227,961	164132	180545									
	4	123,245	88736	97610				no known guideline					
	<b>Tot</b>	<b>351,206</b>	<b>252868</b>	<b>278155</b>									
<b>Activity: Clamming</b>													
	1	312,421	146838	161522									
	4	98,556	46322	50954				no known guideline					
	<b>Tot</b>	<b>410,978</b>	<b>193159</b>	<b>212475</b>									
<b>Activity: Canoeing</b>													
	1	165,542	117535	129288									
	2	324,244	230213	253235									
	*	3	72,997	51828	57010								
	*	4	28,931	20541	22595								
	*	5	95,173	67573	74330			no known guideline					
	*	6	25,066	17797	19577								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

	7	120,433	85508	94059								
*	8	38,992	27684	30452								
*	9	3,630	2577	2835								
*	10	18,451	13100	14410								
*	11	0	0	0								
	<b>Tot</b>	<b>893,459</b>	<b>634356</b>	<b>697792</b>								
<b>Activity: Sea Kayaking</b>												
	1	77,532	48070	52877								
*	2	23,402	14509	15960			no known guideline					
*	4	6,422	3982	4380								
*	10	708	439	483								
	<b>Tot</b>	<b>107,357</b>	<b>66561</b>	<b>73217</b>								
<b>Activity: whitewater kayaking</b>												
	<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied: none</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
*	1	0	0	0								
*	2	44,471	24459	26905								
*	3	203,440	111892	123081								
*	4	48,163	26490	29139								
*	5	54,578	30018	33020			no known guideline					
*	6	13,298	7314	8045								
*	7	35,638	19601	21561								
*	8	16,234	8929	9821								
*	9	0	0	0								
*	10	3,914	2153	2368								
*	11	4,834	2659	2925								
	<b>Tot</b>	<b>424,569</b>	<b>233513</b>	<b>256865</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: White-Water Rafting												
*	1	55,620	36153	39768								
*	2	2,165	1407	1548								
*	3	87,787	57062	62768								
*	4	0	0	0								
	5	126,540	82251	90476				no known guideline				
	6	119,888	77927	85720								
	7	335,380	217997	239797								
*	8	3,995	2597	2856								
*	9	0	0	0								
*	10	41,767	27149	29864								
*	11	12,025	7816	8598								
	<b>Tot</b>	<b>785,167</b>	<b>510359</b>	<b>561395</b>								
Activity: Total Boat Ramp Use (for trailered boats)												
	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Boat ramp lanes	Guideline Applied: users per lane per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	1,612,674	983731	1082104	95	108	1138860	-155129	-56756	-12.9	-4.7	
	2	2,475,458	1510029	1661032	137	108	1642356	-132327	18676	-11.0	1.6	
	3	1,360,070	829643	912607	125	108	1498500	-668857	-585893	-55.8	-48.9	
	4	620,227	378339	416173	88	108	1054944	-676605	-638771	-56.4	-53.3	
	5	611,508	373020	410322	85	108	1018980	-645960	-608658	-53.9	-50.8	
	6	488,912	298236	328060	52	108	623376	-325140	-295316	-27.1	-24.6	
	7	572,386	349155	384071	83	108	995004	-645849	-610933	-53.9	-51.0	
	8	241,560	147352	162087	45	108	539460	-392108	-377373	-32.7	-31.5	
	9	37,137	22654	24919	18	108	215784	-193130	-190865	-16.1	-15.9	
	10	388,671	237089	260798	34	108	407592	-170503	-146794	-14.2	-12.2	
	11	254,605	155309	170840	21	108	251748	-96439	-80908	-8.0	-6.7	
	<b>Tot</b>	<b>8,663,209</b>	<b>5284557</b>	<b>5813013</b>	<b>783</b>	<b>108</b>	<b>9386604</b>	<b>-4102047</b>	<b>-3573591</b>	<b>-342.2</b>	<b>-298.1</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Total nonmotorized boat ramp use					Non-motorized boat launches - canoe/raft/kayak/wind-surfing	Users per site per day						
	1	363,341	239899	263889	43	80	381840	-141941	-117951	-159.8	-132.8	
	2	470,075	315307	346837	90	80	799200	-483893	-452363	-544.9	-509.4	
	3	364,224	220781	242860	46	80	408480	-187699	-165620	-211.4	-186.5	
	4	83,517	51013	56114	21	80	186480	-135467	-130366	-152.6	-146.8	
	5	303,074	195644	215208	35	80	310800	-115156	-95592	-129.7	-107.6	
	6	168,503	109086	119995	10	80	88800	20286	31195	22.8	35.1	
	7	496,059	325824	358406	21	80	186480	139344	171926	156.9	193.6	
	8	59,220	39209	43130	23	80	204240	-165031	-161110	-185.8	-181.4	
	9	3,630	2577	2835	5	80	44400	-41823	-41565	-47.1	-46.8	
	10	64,841	42841	47125	23	80	204240	-161399	-157115	-181.8	-176.9	
	11	16,859	10475	11523	5	80	44400	-33925	-32877	-38.2	-37.0	
	<b>Tot</b>	<b>2,392,635</b>	<b>1552218</b>	<b>1707439</b>	<b>322</b>	<b>80</b>	<b>2859360</b>	<b>-1307142</b>	<b>-1151921</b>	<b>-1472.0</b>	<b>-1297.2</b>	
Activity: Personal watercraft (jet ski, wave runner, etc.)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
*	1	71,853	54609	60069								
	2	388,675	295393	324932								
*	3	141,404	107467	118214								
*	4	345	262	288								
*	5	92,181	70058	77064				no known guideline				
*	6	53,717	40825	44907								
*	7	128,754	97853	107638								
*	8	17,679	13436	14779								
*	9	172	131	144								
*	10	3,160	2402	2642								
*	11	7,434	5650	6215								
	<b>Tot</b>	<b>905,374</b>	<b>688085</b>	<b>756893</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Power Boating (no fishing or water skiing)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied:	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	461,059	295078	324586								
	2	1,025,632	656404	722045								
*	3	328,755	210403	231443								
*	4	127,051	81313	89444								
*	5	152,171	97390	107129				no known guideline				
	6	165,165	105706	116276								
	7	181,605	116227	127850								
	8	140,425	89872	98860								
*	9	5,489	3513	3864								
	10	143,647	91934	101127								
	11	20,190	12922	14214								
	<b>Tot</b>	<b>2,751,190</b>	<b>1760761</b>	<b>1936838</b>								
<b>Activity: Sailing</b>												
*	1			0								
*	2	124,963	76227	83850								
*	3	34,032	20760	22836								
*	4	11,716	7146	7861								
*	5	1,422	868	954				no known guideline				
*	6	9,389	5727	6300								
*	7	5,236	3194	3513								
*	8	2,645	1613	1774								
*	9	442	269	296								
*	10	0	0	0								
*	11	7,235	4413	4855								
	<b>Tot</b>	<b>197,079</b>	<b>120218</b>	<b>132240</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Water skiing or other towing sport	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
*	1	8,379	5865	6452								
*	2	424,030	296821	326503								
*	3	302,242	211570	232726								
*	4	191,306	133914	147305								
*	5	140,489	98342	108176				no known guideline				
	6	56,689	39682	43651								
	7	155,227	108659	119524								
	8	39,091	27364	30100								
*	9	1,632	1142	1256								
	10	49,977	34984	38482								
*	11	9,949	6964	7661								
	<b>Tot</b>	<b>1,379,010</b>	<b>965307</b>	<b>1061837</b>								
<b>Activity: Windsurfing</b>					Windsurfing access sites							Existing User Density (users per year per windsurfing access sites)
*	1	64,647	38142	41956	13							1966
*	2	75,793	44718	49190	26							1487
*	3	0	0	0	0							0
*	4	0	0	0	20							0
*	5	26,784	15802	17383	1			no known guideline				9490
*	6	10,252	6049	6653	13							623
*	7	4,607	2718	2990	3							609
*	8	0	0	0	11							0
*	9	0	0	0	1							0
*	10	0	0	0	6							0
*	11	0	0	0	0							0
	<b>Tot</b>	<b>182,082</b>	<b>107428</b>	<b>118171</b>	<b>94</b>							<b>890</b>

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Total hunting	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Designated hunting area - acres	Guideline Applied: 45 hunters per acre per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	345,897	235635	259198	508121	0.022	1240831	-1005197	-981633	-411628.5	-401979.2	
	2	1,317,890	886728	975400	1409418	0.022	3441799	-2555071	-2466398	-1046302.7	-1009991.1	
	3	1,229,163	672332	739565	1439925	0.022	3516297	-2843965	-2776732	-1164604.8	-1137072.8	
	4	125,741	85602	94162	732219	0.022	1788079	-1702477	-1693917	-697165.1	-693659.8	
	5	733,654	496900	546590	2096453	0.022	5119538	-4622639	-4572949	-1892972.4	-1872624.3	
	6	690,962	378464	416310	736672	0.022	1798953	-1420489	-1382643	-581690.8	-566192.7	
	7	702,353	414808	456289	1628081	0.022	3975774	-3560966	-3519485	-1458217.0	-1441230.6	
	8	220,473	148426	163269	1976872	0.022	4827521	-4679095	-4664253	-1916091.5	-1910013.4	
	9	102,244	59473	65420	1679095	0.022	4100350	-4040877	-4034930	-1654741.0	-1652305.6	
	10	1,101,423	693172	762489	3778311	0.022	9226635	-8533463	-8464146	-3494456.7	-3466071.3	
	11	828,470	553344	608679	987424	0.022	2411289	-1857945	-1802611	-760829.3	-738169.8	
	<b>Tot</b>	<b>7,398,270</b>	<b>4624882</b>	<b>5087371</b>	<b>16972591</b>	<b>0.022</b>	<b>41447067</b>	<b>-36822185</b>	<b>-36359697</b>	<b>-15078699.7</b>	<b>-14889310.6</b>	
<b>Activity: Big game hunting (rifle)</b>												
	1	250,611	175427	192970								
	2	740,900	518630	570493								
	3	497,226	348058	382864								
	4	86,196	60337	66371								
	5	498,075	348652	383518				no known guideline				
	6	190,015	133011	146312								
	7	383,685	268580	295438								
	8	90,879	63615	69977								
	9	34,465	24125	26538								
	10	647,539	453278	498605								
	11	568,057	397640	437404								
	<b>Tot</b>	<b>3,987,648</b>	<b>2791354</b>	<b>3070489</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Big game hunting - bow	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	25,144	17098	18808								
*	2	168,521	114594	126054								
*	3	66,778	45409	49950								
*	4	12,363	8407	9248								
*	5	63,908	43458	47804				no known guideline				
*	6	26,959	18332	20165								
*	7	15,601	10609	11670								
*	8	19,439	13218	14540								
*	9	2,608	1774	1951								
	10	117,577	79952	87948								
	11	13,328	9063	9970								
	<b>Tot</b>	<b>532,227</b>	<b>361915</b>	<b>398106</b>								
<b>Activity: Waterfowl hunting</b>												
	1	24,651	16269	17896								
*	2	178,666	117919	129711								
*	3	1,362	899	989								
*	4	11,715	7732	8505								
*	5	50,057	33038	36342				no known guideline				
*	6	79,930	52754	58029								
*	7	17,571	11597	12757								
	8	94,294	62234	68457								
	9	10,533	6952	7647								
*	10	23,217	15323	16856								
	11	12,306	8122	8934								
	<b>Tot</b>	<b>504,301</b>	<b>332839</b>	<b>366123</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Upland bird or small game hunting	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
*	1	45,491	26840	29524								
*	2	229,803	135584	149142								
*	3	65,510	38651	42516								
*	4	15,467	9126	10038								
	5	121,613	71752	78927				no known guideline				
	6	88,129	51996	57195								
	7	51,706	30507	33557								
	8	15,862	9359	10294								
	9	25,087	14801	16282								
	10	102,016	60189	66208								
	11	234,779	138520	152372								
	<b>Tot</b>	<b>995,463</b>	<b>587323</b>	<b>646055</b>								
<b>Activity: Trapping</b>												
*	1	0	0	0								
*	2	0	0	0								
*	3	598,288	239315	263247								
*	4	0	0	0								
*	5	0	0	0				no known guideline				
*	6	305,929	122372	134609								
*	7	233,789	93516	102867								
*	8	0	0	0								
*	9	29,551	11820	13002								
*	10	211,074	84430	92873								
*	11	0	0	0								
	<b>Tot</b>	<b>1,378,631</b>	<b>551452</b>	<b>606598</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Rifle/pistol target shooting	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Shooting ranges for rifle/pistol	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (users per range per year for shooting ranges)
	1	120,308	70982	78080		1						70982
	2	756,406	446280	490908		27						16529
	3	201,789	119056	130961		9						13228
	4	53,524	31579	34737		6						5263
	5	282,252	166529	183182		14		no known guideline				11895
	6	138,075	81464	89611		5						16293
	7	97,351	57437	63181		27						2127
	8	64,655	38147	41961		4						9537
	9	59,151	34899	38389		0						NA
	10	180,868	106712	117383		9						11857
	11	47,912	28268	31095		4						7067
	<b>Tot</b>	<b>2,002,292</b>	<b>1181352</b>	<b>1299487</b>		<b>106</b>						<b>11145</b>
<b>Activity: Skeet/trap/sporting clay shooting</b>					Shooting ranges-skeet/trap							Existing User Density (users per range per year for shooting ranges)
	1	75,040	50277	55305		6						8379
	*	179,880	120519	132571		48						2511
	*	11,115	7447	8192		28						266
	*	11,259	7544	8298		8						943
	*	50,317	33712	37084		26		no known guideline				1297
	6	30,373	20350	22385		7						2907
	7	41,753	27975	30772		11						2543
	*	34,200	22914	25206		1						22914
	9	3,869	2592	2851		0						NA
	10	37,128	24876	27363		4						6219
	11	9,762	6540	7194		9						727
	<b>Tot</b>	<b>484,696</b>	<b>324746</b>	<b>357221</b>		<b>148</b>						<b>2194</b>

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Archery - target shooting	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Archery ranges	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (users per range per year for shooting ranges)
	1	31,312	15656	17222	3							5219
*	2	174,681	87340	96074	15							5823
*	3	81,440	40720	44792	7							5817
*	4	14,637	7318	8050	1							7318
*	5	130,374	65187	71706	7			no known guideline				9312
*	6	38,766	19383	21322	3							6461
	7	31,842	15921	17513	2							7960
	8	26,657	13329	14661	1							13329
*	9	6,064	3032	3335	0							NA
	10	97,462	48731	53604	1							48731
*	11	15,849	7925	8717	3							2642
	<b>Tot</b>	<b>649,084</b>	<b>324542</b>	<b>356996</b>	<b>43</b>							<b>7547</b>
<b>Activity: Total NATURE (bird watch, wildlife obs., outdoor photo, tracking animal signs, collecting)</b>					Outdoor Recreational Land - acres							users per acre per year for outdoor recreational land
	1	4,906,418	2185511	2404062	1144646							1.91
	2	16,779,036	7494376	8243814	1713332							4.37
	3	6,681,986	2994600	3294060	2162259							1.38
	4	2,777,938	1245776	1370353	1273663							0.98
	5	9,181,210	4048708	4453579	3039704			no known guideline				1.33
	6	1,528,846	685280	753807	1068405							0.64
	7	3,263,730	1506412	1657053	3007510							0.50
	8	1,255,653	559597	615557	2232937							0.25
	9	231,941	105896	116486	4470691							0.02
	10	1,463,616	661306	727436	4643695							0.14
	11	850,838	384641	423105	8249998							0.05
	<b>Tot</b>	<b>48,921,212</b>	<b>21872103</b>	<b>24059313</b>	<b>33006840</b>							<b>0.66</b>

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Bird watching	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	1,943,404	757927	833720								
	2	6,446,735	2514227	2765649								
	3	2,501,717	975670	1073236								
	4	1,033,806	403184	443503								
	5	4,055,389	1581602	1739762				no known guideline				
	6	571,243	222785	245063								
	7	807,613	314969	346466								
	8	509,010	198514	218365								
	9	70,660	27557	30313								
	10	491,699	191762	210939								
	11	291,434	113659	125025								
	<b>Tot</b>	<b>18,722,709</b>	<b>7301857</b>	<b>8032042</b>								
<b>Activity: Nature/ wildlife observation</b>												
	1	1,797,447	844800	929280								
	2	6,200,029	2914014	3205415								
	3	2,373,483	1115537	1227091								
	4	982,483	461767	507944								
	5	3,193,478	1500935	1651028				no known guideline				
	6	543,557	255472	281019								
	7	1,220,518	573643	631008								
	8	407,924	191724	210897								
	9	76,725	36061	39667								
	10	547,186	257177	282895								
	11	290,667	136613	150275								
	<b>Tot</b>	<b>17,633,495</b>	<b>8287743</b>	<b>9116517</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Outdoor Photography	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	460,141	230070	253077								
	2	1,825,082	912541	1003795								
	3	627,408	313704	345074								
	4	308,197	154099	169509								
	5	675,695	337847	371632				no known guideline				
	6	154,877	77438	85182								
	7	307,641	153820	169203								
	8	181,172	90586	99645								
	9	23,798	11899	13089								
	10	164,406	82203	90423								
	11	91,894	45947	50542								
	<b>Tot</b>	<b>4,820,311</b>	<b>2410155</b>	<b>2651171</b>								
<b>Activity: Tracking animal signs</b>												
	1	218,106	109053	119958								
	*	815,595	407797	448577								
	3	468,838	234419	257861								
	4	162,744	81372	89509								
	5	537,312	268656	295521				no known guideline				
	6	83,966	41983	46181								
	7	566,832	283416	311757								
	8	60,554	30277	33305								
	9	23,431	11716	12887								
	10	129,680	64840	71324								
	11	125,077	62539	68793								
	<b>Tot</b>	<b>3,192,134</b>	<b>1596067</b>	<b>1755673</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Collecting rocks, plants, berries, mushrooms, etc.	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied:	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	487,321	243661	268027								
	2	1,491,595	745797	820377								
	3	710,542	355271	390798								
	4	290,708	145354	159889								
	5	719,337	359668	395635				no known guideline				
	6	175,204	87602	96362								
	7	361,127	180563	198620								
	8	96,993	48496	53346								
	9	37,328	18664	20530								
	10	130,645	65323	71855								
	11	51,765	25883	28471								
	<b>Tot</b>	<b>4,552,563</b>	<b>2276281</b>	<b>2503910</b>								
Activity: Freshwater Beach Activities					Freshwater beach area total - sq ft	100 sq ft per user per day						
	1	1,347,289	889211	978132	1683600	0.01	1868796	-979585	-890664	-882509.1	-802400.1	
	2	588,623	388491	427340	17038959	0.01	18913244	-18524753	-18485904	-16688967.0	-16653967.8	
	3	370,638	244621	269083	2503886	0.01	2779313	-2534693	-2510231	-2283506.9	-2261469.0	
	4	296,370	195604	215165	2219576	0.01	2463729	-2268125	-2248564	-2043355.8	-2025733.7	
	5	339,851	224302	246732	1073028	0.01	1191061	-966759	-944329	-870954.3	-850746.9	
	6	69,248	45704	50274	637735	0.01	707886	-662182	-657612	-596560.5	-592443.1	
	7	281,737	185947	204541	312542	0.01	346922	-160975	-142380	-145022.4	-128270.5	
	8	32,298	21317	23449	70124	0.01	77838	-56521	-54389	-50919.6	-48999.2	
	9	5,503	3632	3995	41179	0.01	45709	-42077	-41714	-37907.0	-37579.8	
	10	100,675	66445	73090	179600	0.01	199356	-132911	-126266	-119739.4	-113753.3	
	11	24,147	15937	17531	3521	0.01	3908	12029	13622	10836.6	12272.3	
	<b>Tot</b>	<b>3,456,379</b>	<b>2281210</b>	<b>2509332</b>	<b>25763750</b>	<b>0.01</b>	<b>28597763</b>	<b>-26316552</b>	<b>-26088431</b>	<b>-23708605.4</b>	<b>-23503091.0</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Ocean beach activities	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	4,693,793	3004027	3304430								
	4	1,292,482	827188	909907		no known guideline						
	<b>Tot.</b>	<b>5,986,275</b>	<b>3831216</b>	<b>4214337</b>								
<b>Activity: Swimming in an outdoor pool</b>					Outdoor swimming pools	users per pool per day						
	1	630,151	245759	270335	0	256	0	245759	270335	8.6	9.5	
	2	2,239,493	873402	960742	25	256	710400	163002	250342	5.7	8.8	
	3	661,255	257889	283678	3	256	85248	172641	198430	6.1	7.0	
	4	404,171	157627	173389	4	256	113664	43963	59725	1.5	2.1	
	5	960,189	374474	411921	11	256	312576	61898	99345	2.2	3.5	
	6	245,212	95633	105196	12	256	340992	-245359	-235796	-8.6	-8.3	
	7	435,699	169923	186915	4	256	113664	56259	73251	2.0	2.6	
	8	75,195	29326	32258	3	256	85248	-55922	-52990	-2.0	-1.9	
	9	40,831	15924	17516	1	256	28416	-12492	-10900	-0.4	-0.4	
	10	39,271	15316	16847	6	256	170496	-155180	-153649	-5.5	-5.4	
	11	36,446	14214	15635	2	256	56832	-42618	-41197	-1.5	-1.4	
	<b>Tot</b>	<b>5,767,911</b>	<b>2249485</b>	<b>2474434</b>	<b>71</b>	<b>256</b>	<b>2017536</b>	<b>231949</b>	<b>456898</b>	<b>8.2</b>	<b>16.1</b>	
<b>Activity: SCUBA diving or snorkeling</b>	<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied: none</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
	1	63,278	34170	37587								
	*	2	153,902	83107	91418							
	*	3	42,701	23059	25365							
	*	4	48,364	26117	28728							
	*	5	25,477	13758	15133							
	*	6	4,537	2450	2695			no known guideline				
	*	7	15,334	8280	9108							

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

*	8	5,313	2869	3156								
*	9	215	116	128								
*	10	2,516	1359	1495								
*	11	1,649	891	980								
	<b>Tot</b>	<b>363,287</b>	<b>196175</b>	<b>215792</b>								
<b>Activity: Total Camping at developed sites (bicycle, boat, horseback, ocean beach, ATV, car and snow)</b>												
					Tent Campsites	users per day per camp site						
	1	956,985	446994	491693	2010	3.3	736263	-289269	-244570	-651.5	-550.8	
	2	481,808	177635	195399	1280	3.3	468864	-291229	-273465	-655.9	-615.9	
	3	429,131	224026	246429	930	3.3	340659	-116633	-94230	-262.7	-212.2	
	4	460,251	256201	281821	1341	3.3	491208	-235008	-209388	-529.3	-471.6	
	5	731,708	256014	281616	1568	3.3	574358	-318344	-292743	-717.0	-659.3	
	6	328,325	61355	67491	638	3.3	233699	-172344	-166208	-388.2	-374.3	
	7	786,094	251667	276833	842	3.3	308425	-56758	-31591	-127.8	-71.2	
	8	133,741	40275	44302	517	3.3	189377	-149102	-145075	-335.8	-326.7	
	9	64,986	16505	18155	92	3.3	33700	-17195	-15544	-38.7	-35.0	
	10	331,592	60891	66980	1228	3.3	449816	-388925	-382836	-876.0	-862.2	
	11	390,374	103333	113667	261	3.3	95604	7729	18062	17.4	40.7	
	<b>Tot</b>	<b>5,094,996</b>	<b>1894897</b>	<b>2084386</b>	<b>10707</b>	<b>3.3</b>	<b>3921974</b>	<b>-2027077</b>	<b>-1837588</b>	<b>-4565.5</b>	<b>-4138.7</b>	
<b>Activity: Bicycle camping</b>												
	<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied:</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
	1	23,041	16129	17742								
*	2	121,200	84840	93324								
*	3	39,859	27901	30691								
*	4	731	511	563								
*	5	59,571	41700	45870				no known guideline				
*	6	5,569	3899	4288								
*	7	0	0	0								
*	8	7,307	5115	5626								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

	*	9	169	118	130								
	*	10	15,283	10698	11768								
	*	11	15,130	10591	11650								
		<b>Tot</b>	<b>287,860</b>	<b>201502</b>	<b>221652</b>								
<b>Activity: Boat camping</b>													
		1	190,546	135288	148817								
	*	2	33,308	23649	26014								
	*	3	1,156	821	903								
	*	4	68,968	48968	53864								
		5	158,126	112270	123497			no known guideline					
	*	6	56,322	39988	43987								
		7	132,957	94399	103839								
	*	8	26,092	18525	20378								
	*	9	2,212	1570	1727								
		10	99,553	70683	77751								
	*	11	10,684	7586	8344								
		<b>Tot</b>	<b>779,924</b>	<b>553746</b>	<b>609121</b>								
<b>Activity: Horseback camping</b>													
		<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied: none</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
	*	1	42,899	25740	28314								
	*	2	14,001	8401	9241								
	*	3	30,216	18130	19943								
	*	4	0	0	0								
	*	5	83,941	50365	55401			no known guideline					
	*	6	14,355	8613	9474								
	*	7	37,246	22347	24582								
	*	8	13,576	8146	8960								
	*	9	1,131	679	747								
		10	21,134	12680	13948								
	*	11	100	60	66								
		<b>Tot</b>	<b>258,600</b>	<b>155160</b>	<b>170676</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Camping on an ocean beach												
	1	264,668	209088	229997								
	4	98,330	77681	85449								
	<b>Tot</b>	<b>362,998</b>	<b>286769</b>	<b>315445</b>								
Activity: RV/trailer camping	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: RV/trailer campsites	Guideline Applied: users per campsite	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	3,728,795	2759308	3035239	9111	3.3	3337359	-578051	-302120	-651.0	-340.2	
	2	272,808	201878	222066	7190	3.3	2633697	-2431819	-2411631	-2738.5	-2715.8	
	3	1,203,041	890250	979275	3832	3.3	1403662	-513412	-424387	-578.2	-477.9	
	4	1,184,131	876257	963882	6085	3.3	2228936	-1352679	-1265053	-1523.3	-1424.6	
	5	1,877,907	1389651	1528616	5771	3.3	2113917	-724266	-585301	-815.6	-659.1	
	6	381,350	282199	310419	2411	3.3	883149	-600950	-572730	-676.7	-645.0	
	7	1,310,048	969436	1066379	4680	3.3	1714284	-744848	-647905	-838.8	-729.6	
	8	146,051	108078	118886	1590	3.3	582417	-474339	-463531	-534.2	-522.0	
	9	40,651	30082	33090	785	3.3	287546	-257464	-254455	-289.9	-286.5	
	10	619,521	458445	504290	1769	3.3	647985	-189539	-143695	-213.4	-161.8	
	11	268,938	199014	218916	677	3.3	247985	-48971	-29069	-55.1	-32.7	
	<b>Tot</b>	<b>11,033,241</b>	<b>8164598</b>	<b>8981058</b>	<b>43901</b>	<b>3.3</b>	<b>16080936</b>	<b>-7916338</b>	<b>-7099878</b>	<b>-8914.8</b>	<b>-7995.4</b>	
Activity: ATV camping												
	*	1	87,068	69654	76620							
	*	2	3,540	2832	3115							
	*	3	29,543	23634	25997							
	*	4	42,775	34220	37642							
	*	5	44,517	35614	39175			no known guideline				
	*	6	24,234	19388	21326							
	*	7	17,956	14365	15801							
	*	8	0	0	0							
	*	9	5,791	4632	5096							
	*	10	15,797	12637	13901							
	*	11	10,204	8163	8979							
	<b>Tot</b>	<b>281,424</b>	<b>225140</b>	<b>247654</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Car camping with a tent	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	348,762	265059	291565								
	2	296,473	225319	247851								
	3	328,358	249552	274507								
	4	249,448	189580	208538								
	5	345,969	262936	289230				no known guideline				
	6	190,607	144862	159348								
	7	573,903	436166	479783								
	8	86,470	65717	72289								
	9	27,507	20906	22996								
	10	160,984	122348	134583								
	11	80,611	61265	67391								
	<b>Tot</b>	<b>2,689,093</b>	<b>2043710</b>	<b>2248081</b>								
<b>Activity: Snow camping</b>												
*	1	0	0	0								
*	2	13,284	10229	11252								
*	3	0	0	0								
*	4	0	0	0								
*	5	39,583	30479	33527				no known guideline				
*	6	37,237	28673	31540								
*	7	16,726	12879	14167								
*	8	7,435	5725	6297								
*	9	13,062	10058	11064								
*	10	18,995	14626	16089								
*	11	915	705	775								
	<b>Tot</b>	<b>147,237</b>	<b>113372</b>	<b>124710</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Golf	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Golf course holes	Guideline Applied: 200 users/ 9 holes/ day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	1,190,801	559676	615644	126	22.2	310489	249187	305155	101.1	123.8	
	2	5,183,816	2436393	2680033	828	22.2	2040358	396036	639675	160.7	259.6	
	3	1,082,050	508563	559420	216	22.2	532267	-23704	27153	-9.6	11.0	
	4	215,157	101124	111236	72	22.2	177422	-76299	-66186	-31.0	-26.9	
	5	779,456	366344	402979	216	22.2	532267	-165923	-129288	-67.3	-52.5	
	6	267,651	125796	138376	117	22.2	288311	-162515	-149936	-66.0	-60.8	
	7	557,652	262096	288306	258	22.2	635764	-373667	-347458	-151.6	-141.0	
	8	122,596	57620	63382	63	22.2	155245	-97624	-91862	-39.6	-37.3	
	9	11,971	5626	6189	9	22.2	22178	-16551	-15989	-6.7	-6.5	
	10	147,251	69208	76129	27	22.2	66533	2675	9595	1.1	3.9	
	11	77,256	36310	39942	9	22.2	22178	14133	17764	5.7	7.2	
	<b>Tot</b>	<b>9,635,657</b>	<b>4528759</b>	<b>4981635</b>	<b>1941</b>	<b>22.2</b>	<b>4783012</b>	<b>-254254</b>	<b>198622</b>	<b>-103.2</b>	<b>80.6</b>	
<b>Activity: Baseball/ softball</b>					Baseball/softball fields	users per field per day						
	1	282,503	114396	125836	75	120	999000	-884604	-873164	-66.4	-65.6	
	2	4,194,804	1697234	1866958	1343	120	17888760	-16191526	-16021802	-1215.6	-1202.8	
	3	810,166	328298	361128	405	120	5394600	-5066302	-5033472	-380.4	-377.9	
	4	240,739	100639	110703	56	120	745920	-645281	-635217	-48.4	-47.7	
	5	744,452	298634	328497	201	120	2677320	-2378686	-2348823	-178.6	-176.3	
	6	188,710	76368	84005	98	120	1305360	-1228992	-1221355	-92.3	-91.7	
	7	256,511	103361	113697	104	120	1385280	-1281919	-1271583	-96.2	-95.5	
	8	98,556	39901	43891	51	120	679320	-639419	-635429	-48.0	-47.7	
	9	25,786	10866	11952	1	120	13320	-2454	-1368	-0.2	-0.1	
	10	112,912	45749	50324	75	120	999000	-953251	-948676	-71.6	-71.2	
	11	47,805	19196	21115	40	120	532800	-513604	-511685	-38.6	-38.4	
	<b>Tot</b>	<b>7,002,943</b>	<b>2834643</b>	<b>3118108</b>	<b>2449</b>	<b>120</b>	<b>32620680</b>	<b>-29786037</b>	<b>-29502572</b>	<b>-2236.2</b>	<b>-2214.9</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Baseball	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	181,363	77986	85785								
	2	2,672,929	1149360	1264296								
*	3	523,409	225066	247572								
*	4	199,613	85834	94417								
*	5	437,585	188162	206978				no known guideline (see combined baseball /softball)				
	6	120,462	51799	56978								
	7	157,392	67678	74446								
	8	63,161	27159	29875								
	9	22,613	9723	10696								
	10	72,876	31337	34470								
*	11	28,366	12197	13417								
	<b>Tot.</b>	<b>4,479,768</b>	<b>1926300</b>	<b>2118930</b>								
<b>Activity: Football/ rugby/ soccer</b>					football/ rugby/ soccer fields	users per day per field						
	1	192,203	103085	113393	44	175	854700	-751615	-741307	-38.7	-55.7	
	2	3,265,730	1778805	1956685	946	175	18376050	-16597245	-16419365	-854.4	-1232.7	
	3	453,352	243877	268264	313	175	6080025	-5836148	-5811761	-300.4	-436.3	
	4	83,714	44916	49408	39	175	757575	-712659	-708167	-36.7	-53.2	
	5	565,227	297349	327084	153	175	2972025	-2674676	-2644941	-137.7	-198.6	
	6	146,695	79437	87381	69	175	1340325	-1260888	-1252944	-64.9	-94.1	
	7	350,941	192966	212263	80	175	1554000	-1361034	-1341737	-70.1	-100.7	
	8	156,602	81740	89915	50	175	971250	-889510	-881335	-45.8	-66.2	
	9	7,007	3792	4172	3	175	58275	-54483	-54103	-2.8	-4.1	
	10	84,806	45900	50490	52	175	1010100	-964200	-959610	-49.6	-72.0	
	11	38,472	20907	22998	21	175	407925	-387018	-384927	-19.9	-28.9	
	<b>Tot</b>	<b>5,344,749</b>	<b>2892774</b>	<b>3182052</b>	<b>1770</b>	<b>175</b>	<b>34382250</b>	<b>-31489476</b>	<b>-31200198</b>	<b>-1621.1</b>	<b>-2342.4</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Football/ rugby	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand- supply	2007 Need (111 days)= demand- supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	90,976	46398	51037								
*	2	1,000,077	510039	561043								
	3	200,015	102007	112208								
*	4	39,270	20028	22031								
*	5	383,559	195615	215177				no known guideline				
*	6	54,251	27668	30435								
	7	71,214	36319	39951								
*	8	119,133	60758	66834								
	9	2,629	1341	1475								
*	10	31,825	16231	17854								
*	11	12,747	6501	7151								
	<b>Tot</b>	<b>2,005,697</b>	<b>1022906</b>	<b>1125196</b>								
<b>Activity: Ultimate Frisbee</b>												
*	1	5,943	2615	2876								
*	2	137,416	60463	66509								
*	3	11,249	4949	5444								
*	4	689	303	334								
*	5	19,115	8410	9251				no known guideline				
*	6	5,302	2333	2566								
*	7	3,198	1407	1548								
*	9	207	91	100								
*	10	1,964	864	950								
	<b>Tot</b>	<b>185,083</b>	<b>81437</b>	<b>89580</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Frisbee golf	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
*	1	12,542	5017	5519								
*	2	263,857	105543	116097								
*	3	47,643	19057	20963								
*	4	6,757	2703	2973								
*	5	41,523	16609	18270			no known guideline					
*	6	11,191	4476	4924								
*	7	14,131	5653	6218								
*	8	0	0	0								
*	9	542	217	239								
*	10	6,565	2626	2888								
*	11	3,187	1275	1402								
	<b>Tot</b>	<b>407,938</b>	<b>163175</b>	<b>179493</b>								
<b>Activity: Hang gliding</b>												
*	6	23,370	8647	9511			no known guideline					
*	7	29,511	10919	12011								
	<b>Tot</b>	<b>52,881</b>	<b>19566</b>	<b>21523</b>								
<b>Activity: Skydiving</b>												
*	2	18,456	13842	15226								
*	3	38	29	31			no known guideline					
*	6	392	294	324								
	<b>Tot</b>	<b>18,886</b>	<b>14165</b>	<b>15581</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Rock climbing	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
*	1	22,401	16129	17742								
*	2	9,484	6829	7511								
*	3	346,887	249759	274734								
	4	19,746	14217	15638								
*	5	39,391	28361	31198				no known guideline				
*	6	6,493	4675	5142								
	7	22,247	16018	17620								
*	8	7,254	5223	5745								
*	9	841	606	666								
*	10	7,731	5567	6123								
*	11	4,785	3445	3789								
	<b>Tot</b>	<b>487,260</b>	<b>350827</b>	<b>385910</b>								
<b>Activity: Outdoor court games (volleyball, badminton)</b>												
*	1	43,112	27592	30351								
	2	614,174	393071	432378								
	3	115,071	73646	81010								
*	4	11,945	7645	8409								
*	5	102,540	65626	72188				no known guideline				
*	6	22,567	14443	15887								
*	7	28,277	18097	19907								
*	8	11,331	7252	7977								
*	9	1,283	821	903								
*	10	15,876	10161	11177								
*	11	12,121	7758	8533								
	<b>Tot</b>	<b>978,297</b>	<b>626110</b>	<b>688721</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Outdoor basketball	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Outdoor basketball courts (2 goals/court)	Guideline Applied: Users per court per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	96,847	40676	44743	76	90	759240	-718564	-714497	-71.9	-71.5	
	2	2,280,705	957896	1053686	1748	90	17462520	-16504624	-16408834	-1652.1	-1642.5	
	3	480,328	201738	221912	565	90	5644350	-5442612	-5422438	-544.8	-542.8	
*	4	22,059	9265	10191	85	90	849150	-839885	-838959	-84.1	-84.0	
	5	355,137	149158	164073	352	90	3516480	-3367322	-3352407	-337.1	-335.6	
	6	74,667	31360	34496	175	90	1748250	-1716890	-1713754	-171.9	-171.5	
	7	192,548	80870	88957	228	90	2277720	-2196850	-2188763	-219.9	-219.1	
	8	57,124	23992	26391	108	90	1078920	-1054928	-1052529	-105.6	-105.4	
*	9	48,573	20401	22441	10	90	99900	-79499	-77459	-8.0	-7.8	
	10	59,569	25019	27521	108	90	1078920	-1053901	-1051399	-105.5	-105.2	
*	11	26,552	11152	12267	101	90	1008990	-997838	-996723	-99.9	-99.8	
	<b>Tot</b>	<b>3,694,109</b>	<b>1551526</b>	<b>1706678</b>	<b>3556</b>	<b>90</b>	<b>35524440</b>	<b>-33972914</b>	<b>-33817762</b>	<b>-3400.7</b>	<b>-3385.2</b>	
<b>Activity: Outdoor Tennis</b>					Outdoor tennis courts	users per court per day						
*	1	29,747	11304	12434	37	30	123210	-111906	-110776	-33.6	-33.3	
	2	740,125	281248	309372	659	30	2194470	-1913222	-1885098	-574.5	-566.1	
*	3	158,671	60295	66324	182	30	606060	-545765	-539736	-163.9	-162.1	
*	4	23,370	8881	9769	35	30	116550	-107669	-106781	-32.3	-32.1	
*	5	116,387	44227	48650	101	30	336330	-292103	-287680	-87.7	-86.4	
*	6	31,710	12050	13255	71	30	236430	-224380	-223175	-67.4	-67.0	
	7	47,209	17939	19733	69	30	229770	-211831	-210037	-63.6	-63.1	
*	8	16,680	6338	6972	24	30	79920	-73582	-72948	-22.1	-21.9	
*	9	1,565	595	654	3	30	9990	-9395	-9336	-2.8	-2.8	
*	10	20,028	7611	8372	41	30	136530	-128919	-128158	-38.7	-38.5	
*	11	8,107	3081	3389	32	30	106560	-103479	-103171	-31.1	-31.0	
	<b>Tot</b>	<b>1,193,598</b>	<b>453567</b>	<b>498924</b>	<b>1254</b>	<b>30</b>	<b>4175820</b>	<b>-3722253</b>	<b>-3676896</b>	<b>-4191.7</b>	<b>-1104.2</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Soccer	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	101,227	56687	62356								
	2	2,265,652	1268765	1395642								
*	3	253,338	141869	156056								
*	4	44,443	24888	27377								
*	5	181,668	101734	111908				(included in football/rugby/soccer analysis)				
*	6	92,444	51769	56946								
	7	279,727	156647	172312								
*	8	37,469	20983	23081								
*	9	4,377	2451	2696								
*	10	52,981	29669	32636								
*	11	25,725	14406	15847								
	<b>Tot</b>	<b>3,339,052</b>	<b>1869869</b>	<b>2056856</b>								
<b>Activity: Softball</b>												
	1	101,140	36411	40052								
*	2	1,521,874	547875	602662								
	3	286,757	103233	113556								
*	4	41,126	14805	16286								
*	5	306,867	110472	121519				(included in baseball/softball analysis)				
*	6	68,248	24569	27026								
	7	99,119	35683	39251								
*	8	35,394	12742	14016								
*	9	3,173	1142	1257								
*	10	40,035	14413	15854								
*	11	19,439	6998	7698								
	<b>Tot.</b>	<b>2,523,175</b>	<b>908343</b>	<b>999177</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Using park playground equipment	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: acres of equipped play areas	Guideline Applied: users/acre/day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	450,225	202601	117671	42	580	2703960	-2501359	-2586289	-38.9	-40.2	
	2	5,303,823	2386720	1940396	530	580	34121400	-31734680	-32181004	-492.9	-499.9	
	3	1,068,113	480651	490881	203	580	13069140	-12588489	-12578259	-195.5	-195.4	
	4	150,785	67853	86287	44	580	2832720	-2764867	-2746433	-42.9	-42.7	
	5	876,922	394615	355023	136	580	8755680	-8361065	-8400657	-129.9	-130.5	
	6	249,738	112382	109183	94	580	6051720	-5939338	-5942537	-92.3	-92.3	
	7	354,516	159532	155105	122	580	7854360	-7694828	-7699255	-119.5	-119.6	
	8	112,871	50792	63775	27	580	1738260	-1687468	-1674485	-26.2	-26.0	
	9	35,723	16075	7422	23	580	1480740	-1464665	-1473318	-22.8	-22.9	
	10	169,616	76327	56432	65	580	4184700	-4108373	-4128268	-63.8	-64.1	
	11	73,888	33250	39224	36	580	2317680	-2284430	-2278456	-35.5	-35.4	
	<b>Tot.</b>	<b>8,846,220</b>	<b>3980799</b>	<b>3421399</b>	<b>1322</b>	<b>580</b>	<b>85110360</b>	<b>-81129561</b>	<b>-81688961</b>	<b>-1260.2</b>	<b>-1268.9</b>	
<b>Activity: Backpacking</b>					Hiking Trails linear miles	5 miles per day per user						
	1	56,301	34906	38397	247	1.25	34271	635	4126	4.6	29.7	
	2	425,027	263516	289868	1105	1.25	153319	110198	136549	794.2	984.1	
	3	245,353	152119	167331	1550	1.25	215063	-62944	-47732	-453.6	-344.0	
	* 4	30,675	19018	20920	385	1.25	53419	-34400	-32499	-247.9	-234.2	
	5	169,945	105366	115902	1212	1.25	168165	-62799	-52263	-452.6	-376.7	
	* 6	13,841	8582	9440	768	1.25	106560	-97978	-97120	-706.2	-700.0	
	7	103,949	64448	70893	958	1.25	132923	-68474	-62029	-493.5	-447.1	
	* 8	61,412	38075	41883	602	1.25	83528	-45452	-41645	-327.6	-300.1	
	* 9	2,186	1356	1491	306	1.25	42458	-41102	-40966	-296.2	-295.3	
	10	31,416	19478	21426	2335	1.25	323981	-304503	-302555	-2194.6	-2180.6	
	* 11	6,944	4305	4736	235	1.25	32606	-28301	-27870	-204.0	-200.9	
	<b>Tot</b>	<b>1,147,048</b>	<b>711170</b>	<b>782286</b>	<b>9703</b>	<b>1.25</b>	<b>1346291</b>	<b>-635122</b>	<b>-564005</b>	<b>-28609.1</b>	<b>-4064.9</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: All biking (all locations, all surfaces)		2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: none	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	550,348	236650	260315								
	2	3,526,071	1516211	1667832								
	3	1,203,858	517659	569425								
	4	239,922	103166	113483								
	5	700,168	301072	331180								
	6	157,317	67647	74411								
	7	666,504	286597	315256								
	8	139,816	60121	66133								
	9	14,430	6205	6825								
	10	147,693	63508	69859								
	11	70,006	30103	33113								
	<b>Tot</b>	<b>7,416,134</b>	<b>3188938</b>	<b>3507832</b>								
Activity: Biking on local community and backcountry trails (all surfaces)					Linear miles of surfaced & unsurfaced biking trails	Users per mile per day						
	1	148,594	63895	70285	64	40	284160	-220265	-213875	-49.6	-48.2	
	2	1,480,950	636808	700489	401	40	1780440	-1143632	-1079951	-257.6	-243.2	
	3	361,157	155298	170827	291	40	1292040	-1136742	-1121213	-256.0	-252.5	
	4	79,174	34045	37449	157	40	697080	-663035	-659631	-149.3	-148.6	
	5	126,030	54193	59612	286	40	1269840	-1215647	-1210228	-273.8	-272.6	
	6	70,793	30441	33485	54	40	239760	-209319	-206275	-47.1	-46.5	
	7	273,267	117505	129255	139	40	617160	-499655	-487905	-112.5	-109.9	
	8	81,093	34870	38357	174	40	772560	-737690	-734203	-166.1	-165.4	
	9	3,174	1365	1502	83	40	368520	-367155	-367018	-82.7	-82.7	
	10	35,446	15242	16766	228	40	1012320	-997078	-995554	-224.6	-224.2	
	11	25,202	10837	11921	70	40	310800	-299963	-298879	-67.6	-67.3	
	<b>Tot</b>	<b>2,684,882</b>	<b>1154499</b>	<b>1269949</b>	<b>1947</b>	<b>40</b>	<b>8644680</b>	<b>-7490181</b>	<b>-7374731</b>	<b>-1687.0</b>	<b>-1661.0</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Biking on surfaced local community and backcountry trails	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: linear miles of surfaced biking trails	Guideline Applied: Users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	112,931	48561	53417	47	40	208680	-160119	-155263	-36.1	-35.0	
	2	1,125,522	483974	532372	165	40	732600	-248626	-200228	-56.0	-45.1	
	3	274,480	118026	129829	92	40	408480	-290454	-278651	-65.4	-62.8	
	4	60,172	25874	28462	45	40	199800	-173926	-171338	-39.2	-38.6	
	5	95,783	41187	45305	135	40	599400	-558213	-554095	-125.7	-124.8	
	6	53,803	23135	25449	12	40	53280	-30145	-27831	-6.8	-6.3	
	7	207,683	89304	98234	20	40	88800	504	9434	0.1	2.1	
	8	61,631	26501	29151	6	40	26640	-139	2511	-0.0	0.6	
	9	2,413	1037	1141	0	40	0	1037	1141	0.2	0.3	
	10	26,939	11584	12742	2	40	8880	2704	3862	0.6	0.9	
	11	19,154	8236	9060	20	40	88800	-80564	-79740	-18.1	-18.0	
	<b>Tot</b>	<b>2,040,510</b>	<b>877419</b>	<b>965161</b>	<b>544</b>	<b>40</b>	<b>2415360</b>	<b>-1537941</b>	<b>-1450199</b>	<b>-346.4</b>	<b>-326.6</b>	
Activity: Biking on unsurfaced local community and backcountry trails					Linear miles of unsurfaced biking trails	Users per mile per day						
	1	35,663	15335	16868	17	40	75480	-60145	-58612	-13.5	-13.2	
	2	355,428	152834	168117	236	40	1047840	-895006	-879723	-201.6	-198.1	
	3	86,678	37271	40999	199	40	883560	-846289	-842561	-190.6	-189.8	
	4	19,002	8171	8988	112	40	497280	-489109	-488292	-110.2	-110.0	
	5	30,247	13006	14307	151	40	670440	-657434	-656133	-148.1	-147.8	
	6	16,990	7306	8036	42	40	186480	-179174	-178444	-40.4	-40.2	
	7	65,584	28201	31021	119	40	528360	-500159	-497339	-112.6	-112.0	
	8	19,462	8369	9206	168	40	745920	-737551	-736714	-166.1	-165.9	
	9	762	328	360	83	40	368520	-368192	-368160	-82.9	-82.9	
	10	8,507	3658	4024	226	40	1003440	-999782	-999416	-225.2	-225.1	
	11	6,049	2601	2861	50	40	222000	-219399	-219139	-49.4	-49.4	
	<b>Tot</b>	<b>644,372</b>	<b>277080</b>	<b>304788</b>	<b>1403</b>	<b>40</b>	<b>6229320</b>	<b>-5952240</b>	<b>-5924532</b>	<b>-1340.6</b>	<b>-1334.4</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Cross-country skiing/snowshoeing	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: linear miles of designated cross country ski trails	Guideline Applied: users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
*	1	0	0	0	10	30	33300	-33300	-33300	-10.0	-10.0	
*	2	326,339	215384	236922	110	30	366300	-150916	-129378	-45.3	-38.9	
*	3	43,182	28500	31350	147	30	489510	-461010	-458160	-138.4	-137.6	
*	4	0	0	0	5	30	16650	-16650	-16650	-5.0	-5.0	
*	5	80,678	53248	58572	114	30	379620	-326372	-321048	-98.0	-96.4	
*	6	14,288	9430	10373	57	30	189810	-180380	-179437	-54.2	-53.9	
	7	58,121	38360	42196	227	30	755910	-717550	-713714	-215.5	-214.3	
*	8	11,505	7593	8352	293	30	975690	-968097	-967338	-290.7	-290.5	
*	9	2,178	1437	1581	66	30	219780	-218343	-218199	-65.6	-65.5	
*	10	11,655	7692	8462	113	30	376290	-368598	-367828	-110.7	-110.5	
*	11	5,501	3630	3993	12	30	39960	-36330	-35967	-10.9	-10.8	
	<b>Tot</b>	<b>553,446</b>	<b>365274</b>	<b>401802</b>	<b>1154</b>	<b>30</b>	<b>3842820</b>	<b>-3477546</b>	<b>-3441018</b>	<b>-1044.3</b>	<b>-1033.3</b>	
<b>Activity: All hiking (all locations, all surfaces)</b>					Inventoried facilities: none	Guideline Applied: none						
	1	993,897	566521	623173								
	2	1,281,218	730294	803324								
	3	742,397	423166	465483								
	4	168,423	96001	105601								
	5	473,446	269864	296850								
	6	55,117	31417	34558								
	7	489,255	278875	306763								
	8	61,099	34827	38309								
	9	14,823	8449	9294								
	10	167,985	95751	105327								
	11	58,420	33299	36629								
	<b>Tot</b>	<b>4,506,079</b>	<b>2568465</b>	<b>2825312</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Hiking on local community or backcountry trails (all surfaces)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: linear miles of hiking trails	Guideline Applied: users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	646,033	368239	405063	247	5	137085	231154	267978	416.5	482.8	
	2	896,853	511206	562327	1105	5	613275	-102069	-50948	-183.9	-91.8	
	3	608,765	346996	381696	1550	5	860250	-513254	-478554	-924.8	-862.3	
	4	84,211	48000	52800	385	5	213675	-165675	-160875	-298.5	-289.9	
	5	288,802	164617	181079	1212	5	672660	-508043	-491581	-915.4	-885.7	
	6	30,314	17279	19007	768	5	426240	-408961	-407233	-736.9	-733.8	
	7	415,867	237044	260748	958	5	531690	-294646	-270942	-530.9	-488.2	
	8	40,937	23334	25667	602	5	334110	-310776	-308443	-560.0	-555.8	
	9	9,487	5407	5948	306	5	169830	-164423	-163882	-296.3	-295.3	
	10	127,668	72771	80048	2335	5	1295925	-1223154	-1215877	-2203.9	-2190.8	
	11	23,368	13320	14652	235	5	130425	-117105	-115773	-211.0	-208.6	
	<b>Tot</b>	<b>3,172,305</b>	<b>1808214</b>	<b>1989035</b>	<b>9703</b>	<b>5</b>	<b>5385165</b>	<b>-3576951</b>	<b>-3396130</b>	<b>-6445.0</b>	<b>-6119.2</b>	
Activity: Hiking on unsurfaced local community or backcountry trails					Inventoried facilities: linear miles of hiking trails	users per mile per day						
	1	581,430	331415	364556	247	5	137085	194330	227471	350.1	409.9	
	2	807,168	460086	506094	1105	5	613275	-153189	-107181	-276.0	-193.1	
	3	547,889	312297	343526	1550	5	860250	-547953	-516724	-987.3	-931.0	
	4	75,790	43200	47520	385	5	213675	-170475	-166155	-307.2	-299.4	
	5	259,922	148155	162971	1212	5	672660	-524505	-509689	-945.1	-918.4	
	6	27,283	15551	17106	768	5	426240	-410689	-409134	-740.0	-737.2	
	7	374,280	213340	234674	958	5	531690	-318350	-297016	-573.6	-535.2	
	8	36,843	21000	23101	602	5	334110	-313110	-311009	-564.2	-560.4	
	9	8,538	4867	5353	306	5	169830	-164963	-164477	-297.2	-296.4	
	10	114,902	65494	72043	2335	5	1295925	-1230431	-1223882	-2217.0	-2205.2	
	11	21,031	11988	13186	235	5	130425	-118437	-117239	-213.4	-211.2	
	<b>Tot</b>	<b>2,855,075</b>	<b>1627393</b>	<b>1790132</b>	<b>9703</b>	<b>5</b>	<b>5385165</b>	<b>-3757772</b>	<b>-3595033</b>	<b>-6770.8</b>	<b>-6477.5</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Hiking on surfaced local community or backcountry trails	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: none	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	92,083	52487	57736								
	2	65,046	37076	40784								
	3	60,214	34322	37754								
	4	7,816	4455	4900		no inventory for surfaced hiking trails						
	5	28,880	16462	18108								
	6	3,031	1728	1901								
	7	38,145	21742	23917								
	8	4,094	2333	2567								
	9	949	541	595								
	10	12,000	6840	7524								
	11	2,337	1332	1465								
	<b>Tot</b>	<b>314,594</b>	<b>179319</b>	<b>197250</b>								
<b>Activity: Orienteering</b>												
*	1	14,072	7177	7895								
*	2	155,174	79139	87053								
*	3	60,482	30846	33930								
*	4	31,857	16247	17872								
*	5	0	0	0				no known guideline				
*	6	14,139	7211	7932								
*	7	28,686	14630	16093								
*	8	6,688	3411	3752								
*	9	637	325	357								
*	10	8,736	4455	4901								
*	11	4,029	2055	2260								
	<b>Tot</b>	<b>324,500</b>	<b>165495</b>	<b>182045</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: All horseback riding (all locations, all surfaces)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities:	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	150,428	76718	84390								
	2	901,094	459558	505514								
	* 3	303,645	154859	170345								
	* 4	95,700	48807	53687								
	5	186,062	94891	104381		no known guideline						
	6	68,064	34713	38184								
	7	186,474	95102	104612								
	* 8	87,094	44418	48860								
	9	6,028	3074	3382								
	10	60,890	31054	34159								
	11	65,681	33497	36847								
	<b>Tot</b>	<b>2,111,160</b>	<b>1076691</b>	<b>1184361</b>								
<b>Activity: Horseback riding on local community or backcountry trails (all surfaces)</b>					Designated bridle trails - linear miles	users per day per mile						
	1	112,821	57539	63292	52	15	86580	-29041	-23288	-17.4	-14.0	
	2	675,821	344669	379135	634	15	1055610	-710941	-676475	-427.0	-406.3	
	* 3	227,734	116144	127759	1107	15	1843155	-1727011	-1715396	-1037.2	-1030.3	
	* 4	71,775	36605	40266	225	15	374625	-338020	-334359	-203.0	-200.8	
	5	139,546	71169	78285	649	15	1080585	-1009416	-1002300	-606.3	-602.0	
	6	51,048	26034	28638	99	15	164835	-138801	-136197	-83.4	-81.8	
	7	139,856	71326	78459	544	15	905760	-834434	-827301	-501.2	-496.9	
	* 8	65,321	33314	36645	396	15	659340	-626026	-622695	-376.0	-374.0	
	9	4,521	2306	2536	252	15	419580	-417274	-417044	-250.6	-250.5	
	10	45,667	23290	25619	1741	15	2898765	-2875475	-2873146	-1727.0	-1725.6	
	11	49,261	25123	27635	69	15	114885	-89762	-87250	-53.9	-52.4	
	<b>Tot</b>	<b>1,583,370</b>	<b>807519</b>	<b>888270</b>	<b>5768</b>	<b>15</b>	<b>9603720</b>	<b>-8796201</b>	<b>-8715450</b>	<b>-5283.0</b>	<b>-5234.5</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Horseback riding on surfaced local community or backcountry trails	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities:	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	9,026	4603	5063								
	2	54,066	27573	30331								
*	3	18,219	9292	10221								
*	4	5,742	2928	3221	no inventory for surfaced bridle trails							
	5	11,164	5693	6263								
	6	4,084	2083	2291								
	7	11,188	5706	6277								
*	8	5,226	2665	2932								
	9	362	184	203								
	10	3,653	1863	2050								
	11	3,941	2010	2211								
	<b>Tot</b>	<b>126,670</b>	<b>64601</b>	<b>71062</b>								
<b>Activity: Horseback riding on unsurfaced local community or backcountry trails</b>												
	1	103,795	52935	58229								
	2	621,755	317095	348805								
*	3	209,515	106853	117538	no inventory for unsurfaced bridle trails							
*	4	66,033	33677	37044								
	5	128,383	65475	72023								
	6	46,964	23952	26347								
	7	128,667	65620	72182								
*	8	60,095	30649	33713								
	9	4,159	2121	2333								
	10	42,014	21427	23570								
	11	45,320	23113	25425								
	<b>Tot</b>	<b>1,456,700</b>	<b>742917</b>	<b>817209</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: In-line skating/ skateboarding	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Skateparks	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density: users per skatepark per year
	1	490,512	230541	253595	10							23054
	2	3,352,529	1575689	1733257	24							65654
	3	536,138	251985	277183	5							50397
	* 4	97,014	45597	50156	4							11399
	5	567,475	266713	293385	8			no known guideline				33339
	6	144,829	68069	74876	2							34035
	7	313,489	147340	162074	3							49113
	8	89,485	42058	46264	0							na
	9	12,929	6077	6684	0							na
	10	98,339	46219	50841	2							23110
	* 11	42,315	19888	21877	1							19888
	<b>Tot</b>	<b>5,745,053</b>	<b>2700175</b>	<b>2970192</b>	<b>59</b>							<b>45766</b>
<b>Activity: All running/ walking for exercise (all locations, all surfaces)</b>												
	1	2,130,612	553959	609355								
	2	26,448,833	6876697	7564366								
	3	6,502,956	1690768	1859845								
	4	1,541,354	400752	440827				no known guideline				
	5	5,840,971	1518652	1670518								
	6	1,166,713	303345	333680								
	7	2,374,268	617310	679041								
	8	721,522	187596	206355								
	9	107,553	27964	30760								
	10	818,898	212914	234205								
	11	1,591,641	413827	455209								
	<b>Tot</b>	<b>49,245,320</b>	<b>12803783</b>	<b>14084162</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Running/ walking for exercise on local community or backcountry trails (all surfaces)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Jogging trails surfaced and unsurfaced - linear miles	Guideline Applied: users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand- supply	2007 Need (111 days)= demand- supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	213,061	55396	60936	23	100	255300	-199904	-194364	-18.0	-17.5	
	2	4,231,813	1100271	1210299	373	100	4140300	-3040029	-2930001	-273.9	-264.0	
	3	1,235,562	321246	353371	135	100	1498500	-1177254	-1145129	-106.1	-103.2	
	4	308,271	80150	88165	33	100	366300	-286150	-278135	-25.8	-25.1	
	5	817,736	212611	233872	185	100	2053500	-1840889	-1819628	-165.8	-163.9	
	6	431,684	112238	123462	47	100	521700	-409462	-398238	-36.9	-35.9	
	7	736,023	191366	210503	29	100	321900	-130534	-111397	-11.8	-10.0	
	8	252,533	65658	72224	109	100	1209900	-1144242	-1137676	-103.1	-102.5	
	9	16,133	4195	4614	22	100	244200	-240005	-239586	-21.6	-21.6	
	10	147,402	38324	42157	1	100	11100	27224	31057	2.5	2.8	
	11	254,663	66212	72833	1	100	11100	55112	61733	5.0	5.6	
	<b>Tot</b>	<b>8,644,879</b>	<b>2247669</b>	<b>2472436</b>	<b>958</b>	<b>100</b>	<b>10633800</b>	<b>-8386131</b>	<b>-8161364</b>	<b>-755.5</b>	<b>-735.3</b>	
Activity: Running/ walking for exercise on surfaced local community or backcountry trails					Surfaced jogging trails - linear miles	users per mile per day						
	1	149,143	38777	42655	15	100	166500	-127723	-123845	-11.5	-11.2	
	2	2,962,269	770190	847209	151	100	1676100	-905910	-828891	-81.6	-74.7	
	3	864,893	224872	247359	75	100	832500	-607628	-585141	-54.7	-52.7	
	4	215,790	56105	61716	10	100	111000	-54895	-49284	-4.9	-4.4	
	5	572,415	148828	163711	40	100	444000	-295172	-280289	-26.6	-25.3	
	6	302,179	78566	86423	13	100	144300	-65734	-57877	-5.9	-5.2	
	7	515,216	133956	147352	10	100	111000	22956	36352	2.1	3.3	
	8	176,773	45961	50557	6	100	66600	-20639	-16043	-1.9	-1.4	
	9	11,293	2936	3230	0	100	0	2936	3230	0.3	0.3	
	10	103,181	26827	29510	0	100	0	26827	29510	2.4	2.7	
	11	178,264	46349	50983	1	100	11100	35249	39883	3.2	3.6	
	<b>Tot</b>	<b>6,051,416</b>	<b>4235991</b>	<b>1730705</b>	<b>321</b>	<b>100</b>	<b>3563100</b>	<b>-1989732</b>	<b>-1832395</b>	<b>-179.3</b>	<b>-165.1</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Running/ walking for exercise on unsurfaced local community or backcountry trails	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Unsurfaced jogging trails - linear miles	Guideline Applied: users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand- supply	2007 Need (111 days)= demand- supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	63,918	16619	18281	8	100	88800	-72181	-70519	-6.5	-6.4	
	2	1,269,544	330081	363090	222	100	2464200	-2134119	-2101110	-192.3	-189.3	
	3	370,668	96374	106011	60	100	666000	-569626	-559989	-51.3	-50.4	
	4	92,481	24045	26450	23	100	255300	-231255	-228850	-20.8	-20.6	
	5	245,321	63783	70162	145	100	1609500	-1545717	-1539338	-139.3	-138.7	
	6	129,505	33671	37038	34	100	377400	-343729	-340362	-31.0	-30.7	
	7	220,807	57410	63151	19	100	210900	-153490	-147749	-13.8	-13.3	
	8	75,760	19698	21667	103	100	1143300	-1123602	-1121633	-101.2	-101.0	
	9	4,840	1258	1384	22	100	244200	-242942	-242816	-21.9	-21.9	
	10	44,221	11497	12647	1	100	11100	397	1547	0.0	0.1	
	11	76,399	19864	21850	0	100	0	19864	21850	1.8	2.0	
	<b>Tot</b>	<b>2,593,464</b>	<b>674301</b>	<b>741731</b>	<b>637</b>	<b>100</b>	<b>7070700</b>	<b>-6396399</b>	<b>-6328969</b>	<b>-576.3</b>	<b>-570.2</b>	
<b>Activity: All Walking for pleasure (all locations, all surfaces)</b>												
	1	3,921,376	1568550	1725406								
	2	25,702,041	10280817	11308898								
	3	6,140,535	2456214	2701835								
	4	1,394,333	557733	613506								
	5	5,134,430	2053772	2259149								
	6	959,266	383707	422077								
	7	1,986,912	794765	874241								
	8	842,306	336923	370615								
	9	377,081	150832	165916								
	10	842,486	336995	370694								
	11	362,256	144902	159393								
	<b>Tot</b>	<b>47,663,023</b>	<b>19065209</b>	<b>20971730</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Walking for pleasure on local community or backcountry trails (all surfaces)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Nature/ Interpretive trails & Community walking paths - surfaced and unsurfaced	Guideline Applied: users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	313,710	125484	138032	56	100	621600	-496116	-483568	-44.7	-43.6	
	2	7,453,592	2981437	3279580	667	100	7403700	-4422265	-4124122	-398.4	-371.5	
	3	1,842,161	736864	810551	220	100	2442000	-1705136	-1631450	-153.6	-147.0	
	4	278,867	111547	122701	55	100	610500	-498953	-487799	-45.0	-43.9	
	5	1,797,051	718820	790702	202	100	2242200	-1523380	-1451498	-137.2	-130.8	
	6	450,855	180342	198376	36	100	399600	-219258	-201224	-19.8	-18.1	
	7	655,681	262272	288500	90	100	999000	-736728	-710500	-66.4	-64.0	
	8	219,000	87600	96360	124	100	1376400	-1288800	-1280040	-116.1	-115.3	
	9	94,270	37708	41479	24	100	266400	-228692	-224921	-20.6	-20.3	
	10	168,497	67399	74139	26	100	288600	-221201	-214461	-19.9	-19.3	
	11	43,471	17388	19127	11	100	122100	-104712	-102973	-9.4	-9.3	
	<b>Tot</b>	<b>13,317,154</b>	<b>5326861</b>	<b>5859548</b>	<b>1511</b>	<b>100</b>	<b>16772100</b>	<b>-11445242</b>	<b>-10912556</b>	<b>-1031.1</b>	<b>-983.1</b>	
Activity: Walking for pleasure on surfaced local community or backcountry trails					Nature/ Interpretive trails & Community walking paths - surfaced	users per mile per day						
	1	178,815	71526	78678	35	100	388500	-316974	-309822	-28.6	-27.9	
	2	4,248,547	1699419	1869361	300	100	3330000	-1630581	-1460639	-146.9	-131.6	
	3	1,050,032	420013	462014	135	100	1498500	-1078487	-1036486	-97.2	-93.4	
	4	158,954	63582	69940	13	100	144300	-80718	-74360	-7.3	-6.7	
	5	1,024,319	409728	450700	58	100	643800	-234072	-193100	-21.1	-17.4	
	6	256,987	102795	113074	21	100	233100	-130305	-120026	-11.7	-10.8	
	7	373,738	149495	164445	34	100	377400	-227905	-212955	-20.5	-19.2	
	8	124,830	49932	54925	13	100	144300	-94368	-89375	-8.5	-8.1	
	9	53,734	21494	23643	0	100	0	21494	23643	1.9	2.1	
	10	96,043	38417	42259	15	100	166500	-128083	-124241	-11.5	-11.2	
	11	24,778	9911	10902	6	100	66600	-56689	-55698	-5.1	-5.0	
	<b>Tot</b>	<b>7,590,778</b>	<b>3036311</b>	<b>3339942</b>	<b>630</b>	<b>100</b>	<b>6993000</b>	<b>-3956689</b>	<b>-3653058</b>	<b>-356.5</b>	<b>-329.1</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Walking for pleasure on unsurfaced local community or backcountry trails	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Nature/ Interpretive trails & Community walking paths unsurfaced	Guideline Applied: users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	134,895	53958	59354	21	100	233100	-179142	-173746	-16.1	-15.7	
	2	3,205,045	1282018	1410220	367	100	4073700	-2791682	-2663480	-251.5	-240.0	
	3	792,129	316852	348537	85	100	943500	-626648	-594963	-56.5	-53.6	
	4	119,913	47965	52762	42	100	466200	-418235	-413438	-37.7	-37.2	
	5	772,732	309093	340002	144	100	1598400	-1289307	-1258398	-116.2	-113.4	
	6	193,868	77547	85302	15	100	166500	-88953	-81198	-8.0	-7.3	
	7	281,943	112777	124055	56	100	621600	-508823	-497545	-45.8	-44.8	
	8	94,170	37668	41435	111	100	1232100	-1194432	-1190665	-107.6	-107.3	
	9	40,536	16214	17836	24	100	266400	-250186	-248564	-22.5	-22.4	
	10	72,454	28982	31880	11	100	122100	-93118	-90220	-8.4	-8.1	
	11	18,692	7477	8225	5	100	55500	-48023	-47275	-4.3	-4.3	
	<b>Tot</b>	<b>5,726,376</b>	<b>2290550</b>	<b>2519605</b>	<b>881</b>	<b>100</b>	<b>9779100</b>	<b>-7488550</b>	<b>-7259495</b>	<b>-674.6</b>	<b>-654.0</b>	
Activity: Hiking, Biking, Backpacking, Horseback Riding, Walking and Running on surfaced backcountry or local community trails					Linear miles of all SURFACED bicycling, community walking, jogging and nature/ interpretive trails	users per mile per day						
	1	541,998	215954	237549	97	100	1076700	-860746	-839151	-77.5	-75.6	
	2	8,455,451	3018233	3320057	616	100	6837600	-3819367	-3517543	-344.1	-316.9	
	3	2,267,837	806525	887177	302	100	3352200	-2545675	-2465023	-229.3	-222.1	
	4	448,473	152944	168239	68	100	754800	-601856	-586561	-54.2	-52.8	
	5	1,732,561	621897	684087	233	100	2586300	-1964403	-1902213	-177.0	-171.4	
	6	620,084	208307	229138	46	100	510600	-302293	-281462	-27.2	-25.4	
	7	1,145,970	400203	440224	64	100	710400	-310197	-270176	-27.9	-24.3	
	8	372,553	127393	140132	25	100	277500	-150107	-137368	-13.5	-12.4	
	9	68,750	26192	28812	0	100	0	26192	28812	2.4	2.6	
	10	241,817	85531	94085	17	100	188700	-103169	-94615	-9.3	-8.5	
	11	228,473	67838	74622	27	100	299700	-231862	-225078	-20.9	-20.3	
	<b>Tot</b>	<b>16,123,967</b>	<b>5731018</b>	<b>6304120</b>	<b>1495</b>	<b>100</b>	<b>16594500</b>	<b>-10863482</b>	<b>-10290380</b>	<b>-978.7</b>	<b>-927.1</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Hiking, Biking, backpacking, horseback riding, walking and running on unsurfaced trails	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Linear miles of all UN-SURFACED bicycling, community walking, jogging and nature/interpretive trails	Guideline Applied: Users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	1,223,317	646139	710752	293	20	650460	-4321	60292	-1.9	27.2	
	2	6,462,214	2679232	2947155	1930	20	4284600	-1605368	-1337445	-723.1	-602.5	
	3	2,246,273	1018368	1120205	1894	20	4204680	-3186312	-3084475	-1435.3	-1389.4	
	4	398,443	172970	190267	562	20	1247640	-1074670	-1057373	-484.1	-476.3	
	5	1,606,549	704879	775366	1652	20	3667440	-2962561	-2892074	-1334.5	-1302.7	
	6	428,451	166609	183270	859	20	1906980	-1740371	-1723710	-784.0	-776.4	
	7	1,144,250	524138	576552	1152	20	2557440	-2033302	-1980888	-915.9	-892.3	
	8	347,742	155459	171004	984	20	2184480	-2029021	-2013476	-914.0	-907.0	
	9	61,022	26144	28758	435	20	965700	-939556	-936942	-423.2	-422.0	
	10	306,609	146601	161261	2573	20	5712060	-5565459	-5550799	-2507.0	-2500.4	
	11	174,435	69348	76283	290	20	643800	-574452	-567517	-258.8	-255.6	
	<b>Tot</b>	<b>14,399,306</b>	<b>6309885</b>	<b>6940873</b>	<b>12624</b>	<b>20</b>	<b>28025280</b>	<b>-21715395</b>	<b>-21084407</b>	<b>-9781.7</b>	<b>-9497.5</b>	
Activity: Total on and off-trail All-terrain vehicle riding (3 & 4-wheeler)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: None	Guideline Applied: none	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	Existing User Density (no known guideline)
	1	578,267	364308	400739								
	*	183,867	115836	127420								
	3	186,909	117752	129528								
	4	185,181	116664	128330								
	5	204,204	128648	141513				no known guideline				
	6	93,980	59208	65128								
	7	117,287	73891	81280								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

	*	8	43,498	27404	30144								
		9	32,793	20660	22725								
		10	395,191	248970	273867								
		11	141,273	89002	97902								
		<b>Tot</b>	<b>2,162,449</b>	<b>1362343</b>	<b>1498577</b>								
<b>Activity: Total on and off trail Dune buggy riding</b>													
	*	1	48,964	22523	24776								
	*	2	2,796	1286	1415								
	*	3	35,690	16417	18059								
	*	4	7,516	3457	3803								
	*	5	1,024	471	518			no known guideline					
	*	9	782	360	396								
	*	10	4,398	2023	2225								
		<b>Tot</b>	<b>101,169</b>	<b>46538</b>	<b>51191</b>								
												107	
<b>Activity: Total on and off-trail 4-wheel driving (jeeps, pickups, SUV's, etc.)</b>		<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied:</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
		1	353,381	208495	229344								
		2	333,973	197044	216748								
	*	3	121,388	71619	78781								
		4	160,804	94874	104362								
		5	209,807	123786	136165				no known guideline				
		6	212,118	125150	137665								
		7	261,616	154354	169789								
		8	95,569	56386	62024								
		9	12,410	7322	8054								
		10	398,848	235320	258852								
		11	94,631	55832	61415								
		<b>Tot</b>	<b>2,254,544</b>	<b>1330181</b>	<b>1463199</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity:												
<b>Motorcycling</b>												
*	1	163,630	94906	104396								
*	2	293,258	170090	187099								
*	3	108,789	63098	69407								
*	4	60,085	34849	38334								
*	5	109,251	63366	69702				no known guideline				
	6	43,365	25152	27667								
*	7	148,878	86349	94984								
*	8	30,749	17834	19618								
*	9	21,478	12457	13703								
	10	113,261	65692	72261								
*	11	28,117	16308	17939								
	<b>Tot</b>	<b>1,120,861</b>	<b>650099</b>	<b>715109</b>								
<b>Activity: Total on and off-trail snowmobile</b>	<b>Region</b>	<b>2002 Demand: user occasions</b>	<b>2002 Demand: Peak user occasions</b>	<b>2007 Demand: Peak user occasions</b>	<b>Inventoried facilities: None</b>	<b>Guideline Applied: none</b>	<b>111 annual peak days: supply in user occasions</b>	<b>2002 Need (111 days)= demand-supply</b>	<b>2007 Need (111 days)= demand-supply</b>	<b>2002 (111) Facilities Shortage</b>	<b>2007 (111) Facilities Shortage</b>	<b>Existing User Density (no known guideline)</b>
*	1		0	0								
*	2	19,915	12347	13582								
*	3		0	0								
*	4		0	0								
*	5	238,904	148120	162932				no known guideline				
*	6	20,300	12586	13845								
*	7	17,545	10878	11965								
*	8	13,226	8200	9020								
*	9	9,276	5751	6326								
	10	86,198	53443	58787								
*	11	10,831	6715	7387								
	<b>Tot</b>	<b>416,195</b>	<b>258041</b>	<b>283845</b>								

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Total on and off trail Other snow vehicle riding												
	1		0	0								
	2		0	0								
	3		0	0								
	4		0	0								
	5		0	0				no known guideline				
*	6	155,074	21710	23881								
	7		0	0								
*	8	19,554	2738	3011								
	9		0	0								
*	10	37,675	5274	5802								
	11		0	0								
	<b>Tot</b>	<b>212,302</b>	<b>29722</b>	<b>32695</b>								
Activity: Designated trail Motorcycling and All-terrain vehicle riding (3 & 4 wheeler, etc.)	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Linear miles of Designated Motorized Trails ATV & Motorcycle Dual Sport	Guideline Applied: Users per mile per day	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	
	1	133,542	80125	88137	259	20	574980	-494855	-486843	-222.9	-219.3	
	2	85,882	51529	56682	73	20	162060	-110531	-105378	-49.8	-47.5	
	3	53,226	31935	35129	158	20	350760	-318825	-315631	-143.6	-142.2	
	4	44,148	26489	29138	79	20	175380	-148891	-146242	-67.1	-65.9	
	5	56,422	33853	37238	74	20	164280	-130427	-127042	-58.8	-57.2	
	6	24,722	14833	16317	131	20	290820	-275987	-274503	-124.3	-123.7	
	7	47,910	28746	31620	487	20	1081140	-1052394	-1049520	-474.1	-472.8	
	8	13,364	8019	8821	88	20	195360	-187341	-186539	-84.4	-84.0	
	9	9,769	5861	6447	50	20	111000	-105139	-104553	-47.4	-47.1	
	10	91,521	54913	60404	1252	20	2779440	-2724527	-2719036	-1227.3	-1224.8	
	11	30,490	18294	20123	58	20	128760	-110466	-108637	-49.8	-48.9	
	<b>Tot</b>	<b>590,996</b>	<b>354597</b>	<b>390057</b>	<b>2709</b>	<b>20</b>	<b>6013980</b>	<b>-5659383</b>	<b>-5623923</b>	<b>-2549.3</b>	<b>-2533.3</b>	

\* Fewer than 10 observations

shaded sections indicate needs

Table 3.8. Current and Future Needs by Activity and Region Continued

Activity: Designated trail four-wheel driving (jeeps, pickups, SUV's, etc.)					Linear miles of designated 4x4 motorized trails	Users per mile per day						
	1	3,534	2085	2293	89	30	296370	-294285	-294077	-88.4	-88.3	
	2	3,340	1970	2167	5	30	16650	-14680	-14483	-4.4	-4.3	
*	3	1,214	716	788	0	30	0	716	788	0.2	0.2	
	4	1,608	949	1044	26	30	86580	-85631	-85536	-25.7	-25.7	
	5	2,098	1238	1362	31	30	103230	-101992	-101868	-30.6	-30.6	
	6	2,121	1251	1377	0	30	0	1251	1377	0.4	0.4	
	7	2,616	1544	1698	108	30	359640	-358096	-357942	-107.5	-107.5	
	8	956	564	620	0	30	0	564	620	0.2	0.2	
	9	124	73	81	8	30	26640	-26567	-26559	-8.0	-8.0	
	10	3,988	2353	2589	0	30	0	2353	2589	0.7	0.8	
	11	946	558	614	38	30	126540	-125982	-125926	-37.8	-37.8	
	<b>Tot</b>	<b>22,545</b>	<b>13302</b>	<b>14632</b>	<b>305</b>	<b>30</b>	<b>1015650</b>	<b>-1002348</b>	<b>-1001018</b>	<b>-301.0</b>	<b>-300.6</b>	
Activity: Designated trail Snowmobile	Region	2002 Demand: user occasions	2002 Demand: Peak user occasions	2007 Demand: Peak user occasions	Inventoried facilities: Linear miles of Designated Snowmobile trails	Guideline Applied: users per day per mile	111 annual peak days: supply in user occasions	2002 Need (111 days)= demand-supply	2007 Need (111 days)= demand-supply	2002 (111) Facilities Shortage	2007 (111) Facilities Shortage	
*	1		0	0	3	15	4995	-4995	-4995	-3.0	-3.0	
*	2	2,589	1605	1766	61	15	101565	-99960	-99799	-60.0	-59.9	
*	3		0	0	129	15	214785	-214785	-214785	-129.0	-129.0	
*	4		0	0	7	15	11655	-11655	-11655	-7.0	-7.0	
*	5	31,057	19256	21181	229	15	381285	-362029	-360104	-217.4	-216.3	
*	6	2,639	1636	1800	214	15	356310	-354674	-354510	-213.0	-212.9	
*	7	2,281	1414	1555	418	15	695970	-694556	-694415	-417.2	-417.1	
*	8	1,719	1066	1173	537	15	894105	-893039	-892932	-536.4	-536.3	
*	9	1,206	748	822	195	15	324675	-323927	-323853	-194.6	-194.5	
	10	11,206	6948	7642	1452	15	2417580	-2410632	-2409938	-1447.8	-1447.4	
*	11	1,408	873	960	124	15	206460	-205587	-205500	-123.5	-123.4	
	<b>Tot</b>	<b>54,105</b>	<b>33545</b>	<b>36900</b>	<b>3369</b>	<b>15</b>	<b>5609385</b>	<b>-5575840</b>	<b>-5572485</b>	<b>-6279.1</b>	<b>-3346.8</b>	

\* Fewer than 10 observations

shaded sections indicate needs

As noted previously, there are some activities in some regions that have very small sample sizes. Cases where there were fewer than 10 observations are noted with an asterisk in Table 3.8. These estimates have very high margins of error (at least +/- 32%) and should not be used for policy decisions.

There are 43 activities in a specific region where current peak use exceeds supply, and an additional 5 where forecasted 2007 demand will exceed current supply. Only two of the activities where current use exceeds supply are cases where the sample size was less than 10. Activities where use exceeds current supply in three or more regions are fishing from a dock, swimming in an outdoor pool, golf, biking on surfaced local community or backcountry trails, running/walking for exercise on surfaced local community or backcountry trails, and 4-wheel driving on designated 4x4 motorized trails. The four regions where use exceeded current supply of 4-wheel driving on designated 4x4 motorized trails had an inventory of zero. This could be indicative of two types of errors: (1) Users believe they are riding on designated 4x4 motorized trails when they are riding on some other type of trail, or (2) managing agencies included designated 4x4 motorized trails in their inventory of designated ATV and motorcycle trails, and did not list them separately. Recreation managers in these regions could be contacted again to sort out these discrepancies.

Tables 3.9 and 3.10 show the relative needs priority index (current and projected), which simply takes the need for each activity in each region and divides it into the sum of all needs for the state. This allows comparison of relative needs across regions and activities. The activity ranking highest on the relative needs priority index is golf in regions 1 and 2, followed by swimming in an outdoor pool in region 1.

A number of caveats are needed when interpreting the needs analysis. First is that the definition of demand units and supply units may not exactly match. For example, a respondent may have swum in an outdoor pool that was part of a motel, but the inventory does not include motel pools. Second, respondents may not always accurately identify the type of facility they are using. For example, people may say they used a designated ATV trail because ATVs are allowed on the trail they used, but the managing agency may not consider a multiple use trail a designated ATV trail. The survey was careful to provide definitions for all types of trails, but there is still the potential for error. In multiple cases, respondents checked off more than one type of trail, even though they were asked to specify only one where they spent most of their time. Those cases all had to be coded as missing, which also affects the overall accuracy of the results. Finally, the results are obviously sensitive to the completeness and accuracy of the facilities inventory. For such an enormous task of inventorying the entire state's outdoor recreation facilities, there are bound to be some errors and omissions. Recreation managers are encouraged to continue to refine the facilities inventory in the future.

Table 3.9. Relative Needs Priority Index.

Activity	Region	2002 Need (user days)	RNPI
Golf	2	396036	1582.83
Golf	1	249187	995.92
Swimming in an outdoor pool	1	245759	982.22
Hiking on local community or backcountry trails (all surfaces)	1	231154	923.85
Hiking on unsurfaced local community or backcountry trails	1	194330	776.67
Swimming in an outdoor pool	3	172641	689.99
Swimming in an outdoor pool	2	163002	651.47
Non Motorized boat ramp use (canoeing, white water kayaking, white water rafting, sea kayaking and windsurfing)	7	139344	556.91
Backpacking	2	110198	440.43
Fishing/Crabbing from a dock or pier	1	83036	331.87
Swimming in an outdoor pool	5	61898	247.39
Swimming in an outdoor pool	7	56259	224.85
Running/walking for exercise on local community or backcountry trails (all surfaces)	11	55112	220.27
Swimming in an outdoor pool	4	43963	175.70
Running/walking for exercise on surfaced local community or backcountry trails	11	35249	140.88
Running/walking for exercise on local community or backcountry trails (all surfaces)	10	27224	108.81
Running/walking for exercise on surfaced local community or backcountry trails	10	26827	107.22
Fishing/Crabbing from a dock or pier	5	26247	104.90
Hiking, Biking, Backpacking, Horseback Riding, Walking and Running on Surfaced Trails	9	26192	104.68
Running/walking for exercise on surfaced local community or backcountry trails	7	22956	91.75
Walking for pleasure on surfaced local community or backcountry trails	9	21494	85.90
Non Motorized boat ramp use (canoeing, white water kayaking, white water rafting, sea kayaking and windsurfing)	6	20286	81.08
Running/walking for exercise on unsurfaced local community or backcountry trails	11	19864	79.39
Downhill skiing/ snow boarding/ telemarking at commercial areas	9	17322	69.23
Golf	11	14133	56.48
Freshwater Beach Activities	11	12029	48.07
Total Camping at developed sites (bicycle, boat, horseback, ocean beach, ATV, car and snow)	11	7729	30.89
Fishing/Crabbing from a dock or pier	6	3711	14.83
Fishing/Crabbing from a dock or pier	11	3121	12.47
Running/walking for exercise on surfaced local community or backcountry trails	9	2936	11.74
Biking on surfaced local community and backcountry trails	10	2704	10.81
Golf	10	2675	10.69
Designated trail Four-wheel driving (jeeps, pickups, SUVs, etc.)	10	2353	9.41
Designated trail Four-wheel driving (jeeps, pickups, SUVs, etc.)	6	1251	5.00
Biking on surfaced local community and backcountry trails	9	1037	4.15
Designated trail Four-wheel driving (jeeps, pickups, SUVs, etc.)	3	716	2.86
Backpacking	1	635	2.54
Designated trail Four-wheel driving (jeeps, pickups, SUVs, etc.)	8	564	2.25
Biking on surfaced local community and backcountry trails	7	504	2.01
Running/walking for exercise on unsurfaced local community or backcountry trails	10	397	1.59

RNPI – Relative needs priority index shows each activity's need relative to the total statewide needs for all activities.

Table 3.10. Relative Needs Priority Index – 5-year Projections

Activity	Region	2007 Need (user days)	RNPI
Golf	2	639675	1900.14
Golf	1	305155	906.46
Swimming in an outdoor pool	1	270335	803.02
Hiking on local community or backcountry trails (all surfaces)	1	267978	796.02
Swimming in an outdoor pool	2	250342	743.64
Hiking on unsurfaced local community or backcountry trails	1	227471	675.70
Swimming in an outdoor pool	3	198430	589.43
Non Motorized boat ramp use (canoeing, white water kayaking, white water rafting, sea kayaking and windsurfing)	7	171926	510.70
Backpacking	2	136549	405.62
Fishing/Crabbing from a dock or pier	1	100777	299.36
Swimming in an outdoor pool	5	99345	295.10
Swimming in an outdoor pool	7	73251	217.59
Running/walking for exercise on local community or backcountry trails (all surfaces)	11	61733	183.38
Hiking, Biking, backpacking, horseback riding, walking and running on unsurfaced trails	1	60292	179.10
Swimming in an outdoor pool	4	59725	177.41
Running/walking for exercise on surfaced local community or backcountry trails	11	39883	118.47
Running/walking for exercise on surfaced local community or backcountry trails	7	36352	107.98
Fishing/Crabbing from a dock or pier	5	32530	96.63
Non Motorized boat ramp use (canoeing, white water kayaking, white water rafting, sea kayaking and windsurfing)	6	31195	92.66
Running/walking for exercise on local community or backcountry trails (all surfaces)	10	31057	92.25
Running/walking for exercise on surfaced local community or backcountry trails	10	29510	87.66
Hiking, Biking, Backpacking, Horseback Riding, Walking and Running on surfaced backcountry or local community trails	9	28812	85.58
Golf	3	27153	80.66
Walking for pleasure on surfaced local community or backcountry trails	9	23643	70.23
Running/walking for exercise on unsurfaced local community or backcountry trails	11	21850	64.91
Downhill skiing/ snow boarding/ telemarking at commercial areas	9	19387	57.59
Total Boat Ramp Use (for trailered boats)	2	18676	55.48
Total Camping at developed sites (bicycle, boat, horseback, ocean beach, ATV, car and snow)	11	18062	53.65
Golf	11	17764	52.77
Freshwater Beach Activities	11	13622	40.46
Golf	10	9595	28.50
Biking on surfaced local community and backcountry trails	7	9434	28.02
Fishing/Crabbing from a dock or pier	6	8327	24.73
Backpacking	1	4126	12.26
Fishing/Crabbing from a dock or pier	11	3922	11.65
Biking on surfaced local community and backcountry trails	10	3862	11.47
Running/walking for exercise on surfaced local community or backcountry trails	9	3230	9.59
Designated trail four-wheel driving (jeeps, pickups, SUV's, etc.)	10	2589	7.69
Biking on surfaced local community and backcountry trails	8	2511	7.46
Running/walking for exercise on unsurfaced local community or backcountry trails	10	1547	4.60
Designated trail four-wheel driving (jeeps, pickups, SUV's, etc.)	6	1377	4.09
Biking on surfaced local community and backcountry trails	9	1141	3.39
Fishing/Crabbing from a dock or pier	10	913	2.71
Designated trail four-wheel driving (jeeps, pickups, SUV's, etc.)	3	788	2.34
Designated trail four-wheel driving (jeeps, pickups, SUV's, etc.)	8	620	1.84

RNPI – Relative needs priority index shows each activity's need relative to the total statewide needs for all activities.

### **ADDITIONAL ACTIVITIES**

Respondents were asked if they participated in any additional outdoor recreation activities in Oregon that were not included in the 76 survey activities listed. Ten percent said they had, although many of those responses included activities that were on the survey (such as big game hunting) and others were things such as gardening, which aren't appropriate for the SCORP process. Activities most often listed that are relevant for SCORP planning were mining/prospecting, caving/spelunking, and visiting hot springs.

### **DEMOGRAPHIC INFORMATION**

Although demographic information was collected from the individuals completing the survey, that individual data may not always be linked to the recreation activities reported for the household. For example, we have a higher percentage of female respondents than is representative of the state as a whole, yet those females were responding for the entire household, male or female. Therefore, we are only able to link household demographic characteristics with specific recreational activities.

Demographic information provided by survey respondents was analyzed in two different ways. First, demographic summaries were prepared for respondents based on their home region (Table 3.11). Demographic information included the age, gender, and education of the person filling out the survey, and the race and income of the household. Most respondents were in the 45-64 year old age category (33-55%), followed by 25-44 year old age category (26-46%). Region 4 had the highest percentage of over 65 year old respondents (21%). On average, more women than men filled out the survey (57% vs. 43%). People identifying as African Americans comprised 0-2% of the sample, depending on home region. Additionally, American Indians were 0-4%, Hispanics were 0-5%, and other races were 1-6% of regional samples. Whites were the most prevalent race (91-95% of the sample depending on home region).

Table 3.11. Socioeconomic Characteristics by Home Region

Characteristic		Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10	Region 11
Age of Head of Household												
	0-24 years	1	2	5	2	3	1	4	5	1	1	1
	25-44 years	32	46	35	30	28	32	33	32	26	34	36
	45-64 years	50	33	48	47	50	51	44	43	55	51	48
	65+ years	17	20	12	21	19	16	18	20	17	14	16
Sex												
	Male	36	50	43	50	39	41	41	33	44	48	45
	Female	64	50	57	50	61	59	59	68	56	52	55
Race												
	African American	0	1	1	2	0	0	1	1	0	1	0
	American Indian	0	2	2	4	3	1	3	2	4	2	2
	Hispanic	2	1	3	1	0	2	1	1	0	0	5
	White European	95	95	91	93	93	94	92	95	93	92	91
	Other	5	2	3	1	4	2	3	1	3	6	2
Education												
	Less than High School	7	0	3	8	6	7	5	3	6	3	6
	High School Graduate	25	22	20	24	32	26	30	31	35	37	32
	Some college, no degree	29	33	27	28	30	26	24	23	21	20	32
	Associate Degree	16	10	11	12	6	12	8	5	6	6	7
	Bachelor's Degree	10	16	23	17	13	19	21	23	22	25	14
	Graduate Degree	12	19	16	11	13	10	12	17	10	9	9
Income												
	Less than \$9,999	5	2	6	6	9	2	1	3	5	4	4
	\$10,000-\$24,999	18	10	12	25	13	15	15	24	22	16	23
	\$25,000-\$39,999	19	14	14	23	30	28	23	24	27	24	29
	\$40,000-\$63,999	31	35	36	27	29	34	36	24	32	34	25
	\$64,000-\$134,999	23	29	26	17	18	19	18	23	12	22	16
	More than \$135,000	4	10	6	2	0	1	8	1	2	1	2

Between 22-41% of the respondents had a high school diploma or less. The largest group, 50-60%, had some college, an associates degree, or bachelor's degree, while 9-19% had a graduate degree. In general, most households were in the \$40,000 to \$63,999 annual household income category. Households in the lowest income category, less than \$9,999 annually, were 1-9% of the regional sample. The percentage of households in the highest income category, more than \$135,000 annually, ranged from 0-10% depending on home region.

In the second type of demographic analysis, the race and income frequencies were prepared for each recreation activity (Appendix Table D.1). Households that reported participating at least one time in the activity were included in the analysis. Of the activities with larger sample sizes, those with the highest non-white households were soccer (15%) and outdoor basketball (12%). The recreation activities with the highest percentage of white households reporting participation were whitewater rafting, waterfowl hunting, ATV riding, and golf (all with 95%). Activities with the highest percentage of low-income respondents (those reporting less than \$9,999 annually) were bicycle camping (12%), fishing from a dock or pier (9%), outdoor court games (8%), and archery (target shooting) (8%).

### ***OTHER MANAGEMENT INFORMATION***

OPRD requested a number of additional survey questions to address particular management issues. These included questions about specific characteristics of recreation use, crowding at State Parks, sources of recreation information most used, and additional recreation opportunities that people would like to see provided.

### ***CHARACTERISTICS OF USE***

People who engaged in different types of water activities were asked whether most of their time was spent on a lake, the ocean, or a river. Table 3.12 shows the distribution for all water-based activities. Most fishing activity took place on a lake or river. As expected, most of the crabbers and clammers were using the ocean. It is assumed that those who said they were using rivers were using the estuaries where crabs and clams are found. Most motorized boating took place on a lake, although a substantial percent of personal watercraft use and powerboating took place on rivers.

Those respondents who participated in hunting and shooting activities were asked whether they used an ATV during their activity. Table 3.13 shows the percent of people engaged in each activity that used an ATV. Thirty-six percent of those trapping (which had a very small sample size) used an ATV, while all other types of hunting or shooting showed one-fourth or less of the people using an ATV.

Table 3.12. Use of Different Types of Water

Activity	Percent using:		
	Lake	Ocean	River
Fishing from a boat	50	13	37
Fishing from bank or shore	38	3	59
Fishing from a dock or pier	45	19	36
Crabbing from a boat	0	73	27
Crabbing from a bank or shore	0	88	12
Crabbing from a dock or pier	0	87	13
Clamming	0	86	14
Canoeing	60	22	18
Sea kayaking	7	43	50
White-water kayaking	0	20	80
White-water rafting	0	0	100
Personal watercraft	57	0	43
Powerboating for pleasure	52	5	43
Sailing	53	14	33
Water-skiing or other towing sports	73	0	27
Windsurfing	42	0	58

Table 3.13. Percent Using an ATV During Hunting or Shooting Activities

Activity	Percent
Big game hunting (rifle)	25
Big game hunting (bow)	14
Waterfowl hunting	11
Upland bird or small game hunting	11
Trapping	36
Rifle/pistol target shooting	10
Skeet/trap/sporting clay shooting	6
Archery target shooting	4

Camping activities were divided into developed, dispersed, and group sites. Table 3.14 shows the percent of campers who used each type of site. Only RV/trailer camping and car camping with a tent had large sample sizes, so results for the rest of the activities should be interpreted with caution. As expected, most RV/trailer and car camping took place in developed sites, although around 30% used dispersed sites.

People who participated in beach or trail activities were asked whether they took a dog along on their trips (see Table 3.15). For many activities, more than a third of those participating had a dog along. These included freshwater and ocean beach activities, backpacking, hiking, horseback riding, running/walking for exercise, walking for pleasure, and four-wheel driving. It should be noted that some of the responses for motorized use may be indicating that a dog was along on the trip, but probably did not go along on the trail.



Table 3.14. Use of Different Types of Camping Sites

Activity	Percent using:		
	Developed	Dispersed	Group
Bicycle camping	62	38	0
Boat camping	44	43	13
Horseback camping	25	72	3
Camping on ocean beach	74	16	10
RV/trailer camping	67	28	5
ATV camping	32	50	18
Car camping with a tent	58	33	9
Snow camping	11	61	28

Table 3.15. Percent Taking a Dog Along on Their Trip

Activity	Percent
Freshwater beach activities	40
Ocean beach activities	34
Backpacking	36
Biking	20
Cross-country skiing/snowshoeing	25
Hiking	35
Orienteering	20
Horseback riding	41
In-line skating/skateboarding	18
Running/walking for exercise	39
Walking for pleasure	42
ATV riding	29
Dune buggy riding	12
Four-wheel driving	38
Motorcycling	16
Snowmobiling	7
Other snow vehicle riding	18

### **CROWDING AT STATE PARKS**

Fifty-nine percent of all respondents said they visited an Oregon State Park in the last three months (from when they were contacted). Although it is clear from the responses to later questions that not all people correctly identified whether they were in a State Park vs. some other type of recreation area, this represents a very high percentage of State Park use, especially given the multitude of other recreational lands provided in Oregon. When respondents were asked whether they felt crowded by either people or vehicles during any of those recent visits, only 20% said yes. The State Parks most often identified as crowded were Cove Palisades, Fort Stevens, Honeyman, Harris Beach, and Beverly Beach, but all had sample sizes less than 20. Across all State Parks identified, the locations within the parks that were most often identified as crowded were campgrounds (28% of respondents), water areas (15% of respondents), and parking areas (10% of respondents). Of those who said they felt crowded, 60% were “moderately crowded” and 18% were “extremely crowded.” Fifty-eight percent of those who felt crowded said that afternoons were the most crowded time of day (29% said morning and 12% evening).

### **SOURCES OF RECREATIONAL INFORMATION**

Respondents were asked how they obtained information about recreational areas in Oregon (see Table 3.16). Sixty-two percent said “previous visits” and 61% said “friends or relatives” (more than one response was allowed). The other most-used sources of information were maps (47%), highway signs (31%), brochures (30%), and travel guides/tour books (26%).

Table 3.16. Sources of Information About Recreational Areas in Oregon

Information Source	Percent Responding*
Previous visits	62
Friends or relatives	61
Maps	47
Highway signs	31
Brochures	30
Travel Guide/Tour Book	26
Newspaper story or ad	20
Magazine story or ad	16
Internet	15
Received no information	12
TV/radio	8
Telephone inquiry to park or agency	7
Written inquiry to park or agency	5
Travel agent	1

\*more than one response allowed

### **LATENT DEMAND**

The mail survey included a very comprehensive list of recreational activities, but there may still be demand for recreational activities that people were not able to satisfy within Oregon. This is referred to as latent demand, or demand for something that doesn't show up as consumption due to a lack of supply. In this case, lack of supply could include things such as areas that are too crowded, too expensive, or not of high enough quality. It could also include cases where facilities are not accessible to people with disabilities. When asked whether there were any recreational activities that people would like to do in Oregon, but can't because of lack of supply (or supply characteristics), 19% said yes. Responses ranged from amusement parks to nude beaches,

and it is very difficult to categorize responses because of the variability (full list of responses can be found in Appendix Table A2). Most of the latent demand was for opportunities or facilities that already exist, but are too crowded, too expensive, or have some other characteristic that is unsatisfactory to the consumer. Over 15% of the responses had to do with some aspect of camping, 7% addressed snow activities (downhill skiing, snowboarding, sledding), 7% addressed some type of off-highway vehicle use, 6% addressed fishing, and 6% commented that their outdoor recreation activity they wanted to participate in was too expensive.

## **SUMMARY**

This analysis has provided a comprehensive study of outdoor recreation demand in Oregon. The combination of phone and mail survey provided the most efficient means of collecting information from a broad sample of the population. Distributing the survey administration over 4 different waves and asking respondents about the previous three months minimized recall bias. The results show that Oregonians are actively engaged in all types of outdoor recreation activities in the state. The most popular activities are a reflection of the population, which is aging, more concerned about fitness, and increasingly metropolitan. They are also activities that are generally engaged in near home, and on a regular basis. By far, the highest use activities are running/walking for exercise and walking for pleasure. The next most popular activities, bird watching and nature/wildlife observation, are often done right from people's homes. The implications for outdoor recreation planners and managers are that people demand most outdoor recreation opportunities in the communities where they live. A question that remains unanswered from this analysis is whether people are satisfied with running and walking on sidewalks and streets, or whether they would prefer to have dedicated jogging and walking paths in their communities. The needs analysis reported here, did not include running and walking on streets and sidewalks as part of the demand that was compared to the inventory of local community and backcountry trails. Since people reported that they used streets and sidewalks, the implicit assumption is that preferred to use streets and sidewalks, but that may not be the case.

Traditional non-metro outdoor recreation activities that have high demands include sightseeing, RV camping, ocean beach use, fishing, and hiking. The relative needs priority index shows that hiking, non-motorized boat ramp use, and backpacking are three traditional non-metro activities where demand exceeds current supply in some regions. The top seven activities in the relative needs priority index are in regions surrounding the Portland metro area, reflecting the high demands placed on outdoor recreation facilities from that growing population.

The results from this analysis should not be used as the sole guide to facility needs planning throughout the state. A number of limitations to the analysis have been noted, and results should be interpreted with additional information from local planners. Further refinements in facility inventories and user guidelines should be pursued, if feasible. Nevertheless, the results from the demand study give an excellent overview of outdoor recreation use in the state and will be valuable for future planning efforts.