



United States Department of Agriculture



**U.S. Forest Service  
National Visitor Use Monitoring Survey Results  
National Summary Report**

**Data collected FY 2017 through FY 2021**

## Contents

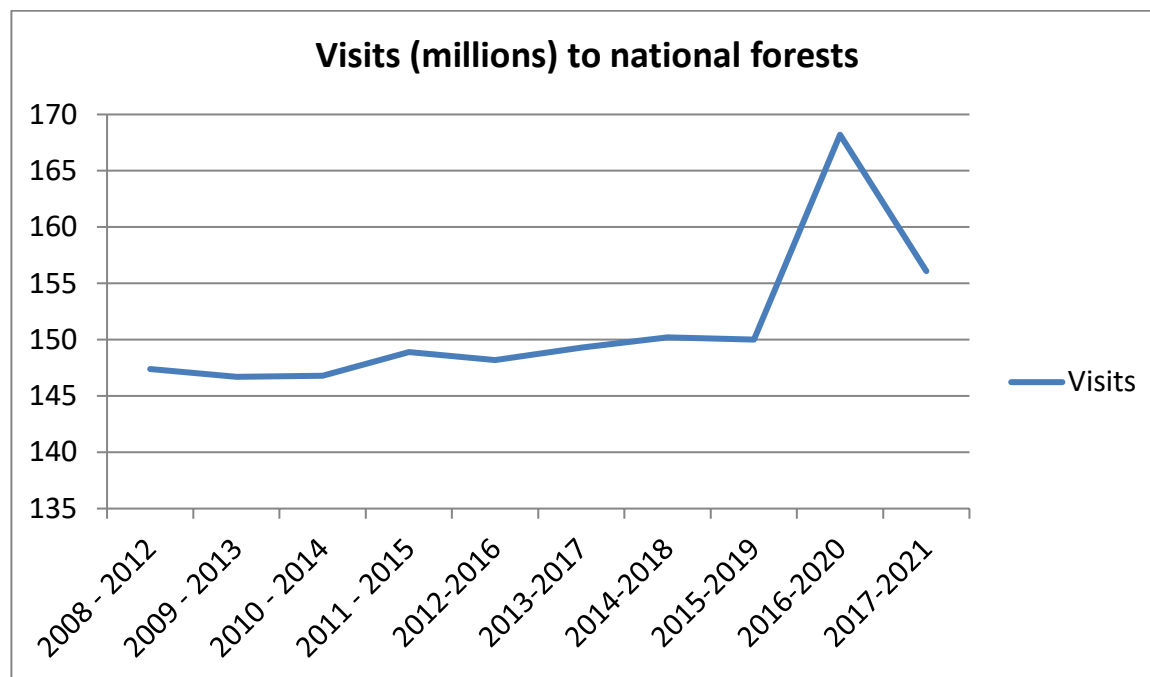
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## EXECUTIVE SUMMARY

The U.S. Forest Service develops estimates of the volume of recreation use on national forests through the National Visitor Use Monitoring program. Onsite surveys are a key part of the process. These surveys help show the characteristics of recreation-related visits to national forests and the benefits recreation brings to Americans.

Completed in five-year cycles, the National Visitor Use Monitoring results help the Forest Service manage recreational resources in such a way that best meets the needs of visitors while maintaining the quality of the natural resources. Baseline data for examining long-term trends started in 2005. Although trend information is not yet available, the results do provide a snapshot of annual forest visitation.

Results in this report reflect the most recent field data on each national forest and includes FY2017 to FY2021. We estimate there were about 156 million recreation visits to national forests<sup>1</sup>. That figure reflects a significant change from trends prior to the COVID19 pandemic. Both dispersed settings experienced large increases compared to prior years in daily visitation in the early part of FY2021 as Americans sought outdoor experiences in socially distanced settings on national forests and grasslands. However, daily rates in the latter half of FY2021 fell back closer to previous levels. Estimates for the last ten years are shown below:



<sup>1</sup> Visitation estimates for forest units surveyed in FY2018-2020 were adjusted to account for the effects of the COVID19 pandemic. We compared results for visitation data in both the first and second half of FY2021 to results for comparable periods in FY2016. Only the first half of FY2021 showed significant differences. After adjusting for normal growth rates, the remaining increases or decreases were assumed to represent the effects of the pandemic. The rates of change were applied to forest units not sampled in FY2021, under the assumption that the observed changes happened on all forest units. A similar process will likely be applied for the next several years.

The agency also estimates an additional 300 million occasions where people traveled on the 138 scenic byways and other similar routes near, on, or through national forests for the purpose of viewing scenery on national forests.

Why people choose to recreate on national forests varies, but most said they do so to improve their physical, psychological and/or spiritual wellbeing. Their chosen activities vary widely, both in character and location. Some relax as they view natural features or wildlife from the roadside, whereas others pursue solitude as they hike in the remote backcountry. Some engage in off highway vehicle use. Others enjoy water-based recreation, hunt, or camp.

The two most common primary recreational activities are hiking/walking and downhill skiing. Just over sixty percent of visitors engage in a primary activity that is physically active, which contribute significantly to the American public's efforts to stay healthy.

The characteristics of recreation visitors are as diverse as their chosen activities.

- About 38 percent of visits to national forests and 42 percent of visits to Wilderness areas are made by females.
- Children under the age of 16 account for about one out of every six visits to national forests.
- All income classes are represented in the recreating public.
- Nearly half of visits to national forests come from people who live within 50 miles of the forest they visited, while a bit over one-fifth traveled more than 200 miles.
- Many visits – about 58 percent – are by people who visit that forest fewer than 10 times per year.
- Over 15 percent of visits are from people who come back more than 50 times each year.

Our visitors said their visits to national forests and grasslands make them happy:

- 95 percent of visitors are satisfied with their overall experiences, including more than 80 percent who report being very satisfied.
- More than 95 percent are satisfied with their feeling of safety.
- Less than 5 percent reported being dissatisfied with the value received for any fees paid in connection with their visit.

Visitors to national forests and grasslands give back in terms of economic vitality of the nation, especially for rural communities. Annual spending by recreation visitors in areas near national forests and grasslands was about \$10 billion in FY2019. Visitors who live more than 50 miles from a forest or grassland account for about half of that total. As visitor spending ripples through the U.S. economy, over \$12 billion is reflected in the nation's gross domestic product and sustains about 154,000 full- and part-time jobs.

The survey data highlights the contribution of forest-based recreation in connecting the American people to their natural and cultural heritage, an important element of the Forest Service Recreation Strategy. Such connections are critical to the cultivation of a conservation ethic and sense of resource stewardship among Americans. Recreation also directly facilitates the improvement of American health, a priority in both the Recreation Strategy and among Forest Service leadership. This report also emphasizes the importance of recreation in the creation of rural wealth and vibrant rural economies.

## METHODOLOGY AND USE

The National Visitor Use Monitoring program provides estimates of the volume and characteristics of recreation visitation on National Forest System lands. The National Forest System is an area of the agency that oversees 154 national forests and grasslands on 193 million acres of public lands.

Information about the quantity and quality of recreation visits is required for national forest plans; Executive Order 12862, [Setting Customer Service Standards](#); and implementation of the [National Recreation Agenda](#). The agency's [Strategic and Annual Performance Plans](#) require the measurement of user satisfaction and use level.

The National Visitor Use Monitoring Program ensures that all visitor statistics for national forests and grasslands produced by the Forest Service use a standardized measure. These standards were originally established by the agency in the 1970s. However, application of those standards is now under stricter protocols. For example, in order to count as a recreation visitor, that person must be physically recreating on Forest Service-managed lands and not merely passing through, stopping to use a facility or viewing a national forest or grassland from a non-Forest Service managed road.

### Background and Methods

Results in this report are derived by adding the results from the most recent survey fieldwork for each national forest and grassland. The results included here are from field work completed from FY2017 to FY2021. Each forest is sampled once in five years. That means that in any given year, around 24 forests are engaged in field data collection. Those forests that completed their survey work in 2021 were updating visitation estimates from 2016. This report represents an iteration of the survey process, or a snapshot of the most current visitation patterns and activities on lands managed by the agency.

The basic methodology is explained in detail in [Forest Service National Visitor Use Monitoring Process: Research Method Documentation](#). In essence, visitation is estimated through a combination of exiting traffic counts and surveys of visitors leaving a national forest or grassland. Both are obtained from random locations and days on a national forest or grassland over a period of one year.

Recreation visitors who are surveyed are asked about the length of their visit, activities they participated in while on a national forest or grassland, information about themselves such as where they are from, their age, ethnicity and other information, the distance they traveled, how often they visit and their overall satisfaction. About one-third also were asked a series of detailed satisfaction questions about specific aspects of their visit. Another one-third of visitors were asked to provide information about their income, spending while on their trip, and the next best substitute for the visit.

Adjustments for COVID-19 pandemic. Typically, results from a given sampling effort on any forests are assumed to be valid for 5 years, until the next iteration of NVUM. However, the widespread and major effects of the pandemic led to a shift in the process. Changes in traffic volume and/or proxy counts observed in the first half of FY2021 compared to the first half of FY2016 were assumed to represent the effects of the pandemic. Those changes were projected to corresponding sampling strata on all other forest units. Across several Forest Service regions, face-to-face interviewing of exiting visitors was suspended for nearly all of FY2021. Individual characteristics from FY2016 were assumed to be reasonably accurate. Responses were reweighted to FY2021 visitation levels and incorporated into the

analysis. Both visitation totals and visitor characteristics reported here take these adjustments into account.

## Satisfaction measures

Survey participants were asked to provide an overall rating of their recreation experiences on a 5-point Likert scale. A Likert scale is a numerical measurement of a respondent's level of agreement with a provided statement. About one-third of visitors were asked to rate their satisfaction with and the importance of fourteen items related to the recreation facilities and services at the site or area at which they recreated. The Likert scale for importance ranges from not important to very important. The Likert scale for performance (satisfaction) ranges from very dissatisfied to very satisfied. Results are summarized by site type:

- day use developed
- overnight use developed
- undeveloped general forest, and
- Wilderness

The satisfaction responses are analyzed and reported in several ways.

1. A graph of overall satisfaction is presented in Figure 5.
2. There are two aggregate measures:
  - Percent Satisfied Index is the proportion of all ratings for 14 items in each category in which the satisfaction was denoted as either "Somewhat satisfied" or "Very Satisfied." The Agency's national target for this measure is 85 percent. Table 11 displays the aggregate scores.
  - Percent Meets Expectations aggregate measures the proportion of satisfaction ratings that are equal to or greater than the importance rating for a given item. This indicator tracks the similarity between the Agency's performance and customer evaluations of importance. Figure 6 displays these scores.

The satisfaction elements most readily controlled by managers were aggregated into four categories:

- developed facilities
- access
- services
- visitor safety

The site types sampled were aggregated into three groups:

- developed sites, which includes day use and overnight developed sites
- undeveloped areas
- Wilderness

3. Importance-Performance Analysis was calculated for the mean values of the importance and satisfaction scores. A target level of importance and performance divides the possible set of score pairs into four quadrants. In the context of the recreation visitor survey, the target level for each of the 14 satisfaction items was a numerical average score of 4.0. The quadrant titles help to interpret each score and can provide general guidance for management. The quadrant definitions are:

- Importance at or above 4.0, Satisfaction at or above 4.0: **Keep up the good work.** These are functions that are important to visitors and which the agency is performing quite well.
- Importance at or above 4.0, Satisfaction under 4.0: **Concentrate here.** These are functions that are highly important to the public, but performance is not at a satisfactory level. Increasing effort here is likely to have the greatest payoff in overall customer satisfaction.
- Importance below 4.0, Satisfaction above 4.0: **Possible overkill.** These are functions that are not of the highest importance to visitors but performance is quite good. It may be possible to reduce effort here without greatly harming overall customer satisfaction.
- Importance below 4.0; Satisfaction below 4.0: **Low priority.** These are functions where performance is not at high levels, but neither are the importance ratings. Focusing effort here is unlikely to have as great an impact on overall satisfaction.

The numerical scores for visitor satisfaction and importance for each of the satisfaction items by site type are presented in Appendix A (Tables A1 – A4). Special attention should be paid to the numeric scores in the Appendix in reviewing and evaluating the Importance-Performance Analysis results for each item. Particular emphasis should be placed on those ratings that are close to but slightly below the 4.0 value, which separates the four quadrants. For these, the distribution of responses as well as the average rating should be reviewed, as the average value could be affected by a relatively small set of very low ratings.

Visitors rated their perception of how crowded the recreation site or area felt to them. Perceptions take into account the type of site and visitors' expectations. Ratings ranged from 1 (hardly anyone there) to 10 (overcrowded).

## Spending and Economic Contributions

Spending by visitors has important effects to the health of forest-dependent economies and supports thousands of jobs in communities near NFS lands. To estimate total spending associated with recreation visits this information is collected:

- overall visitation estimate
- proportion of visits in each of a series of visitor types
- average spending total for each of the respective visitor types.

Multiplying these three variables gives the total amount of spending by each type of visitor. Summing over all visitor types gives total spending associated with recreation on national forests and grasslands.

One-third of the visitor surveys included questions about trip-related spending made within 50 miles of the site visited. Dr. Eric White of the U.S. Forest Service Pacific Northwest Research Station developed a typology of visitor types and average spending amounts for each. The spending that occurs on a recreation trip is greatly influenced by the type of trip taken. Visitors on overnight trips away from home

pay for some form of lodging, such as hotel rooms or campground fees, while day-trip visitors do not. Visitors on overnight trips also generally purchase more food during their trip in restaurants or grocery stores than visitors on day trips. Visitors who are close to home usually spend less than visitors traveling longer distances, especially on items such as fuel and food.

Analysis of spending patterns has shown that segments of the visitor market with consistent spending patterns are:

- local visitors on day trips
- local visitors on overnight trips staying on the national forest
- local visitors on overnight trips staying off the national forest
- non-local visitors on day trips
- non-local visitors on overnight trips staying on the national forest
- non-local visitors on overnight trips staying off the national forest
- non-primary visitors

In addition, these surveys included questions about household income and what the individual considered to be the most likely substitute for their visit to the forest. National results for the most up to date economic contribution measures available are presented here. In general, the most current economic data lags the visitation estimate by a year or two, as it takes time to assemble and validate the economic model and the interindustry and institutional relationships that it represents. Greater detail on the contribution of visitor spending to economic regions around individual National Forest units is available at the [National Forest Recreation Economic Contributions](#) website.



## Terms Used in this Report

**National forest visit:** one person participating in one or more recreation activities on a national forest or grassland for an unspecified period of time. A national forest visit can be composed of multiple site visits.

**Site visit:** one person participating in one or more recreation activities at a particular national forest or grassland site or area for an unspecified period of time.

**Confidence interval:** a range of values that is likely to include an unknown population value, where the range is calculated from a given set of sample data. Confidence intervals are always accompanied by a confidence level

**Confidence level:** tells the degree of certainty that the value lies in the interval. Used together, confidence interval and confidence level define the reliability of the estimate by defining the range of values that are needed to reach the given confidence level. For example, the current national visitation estimate is 149.9 million visits, with a 90 percent confidence interval of 2.7 percent. In other words, given the data, our best estimate is 149.9 million visits, and we are 90 percent certain that the true number is between 146 million and 154 million.

**Local visitors:** travel less than 50 road miles from home to the recreation site

**Non-local visitors:** travel greater than 50 road miles

**Non-primary visitors:** have a primary trip purpose that is something other than recreating on the national forest – it could be to some other recreation destination, or for some reason other than recreation.

**Average:** values for visit characteristics are calculated by expanding the sample of recreation contacts to the population of national forest visits. On some tables **median** values (the value of the 50<sup>th</sup> percentile) are also provided, because the averages can be greatly influenced by a few large values.

## Using this Report

While the National Visitor Use Monitoring program provides a national standard for measuring recreation visitor use, it currently cannot be used to identify trends or make assumptions about changing use patterns:

- Trend analysis is typically based on four or more data points from the same location. No forest or grassland has yet gone through the survey process that many times.
- Results presented here reflect forest-level data collected during the period FY2017 through FY2021, with an adjustment for the first 4 years of data to account for the widespread and pervasive effects of the Covid-19 pandemic. The national results summarize the data for all reporting units.

The results do provide a good snapshot representation of the characteristics of visitors, their visitation patterns, activities, satisfactions, expectations, and the benefits they bring to communities surrounding national forests.

This report has been written and formatted for a diverse audience. Readers who are interested in accessing the data utilized here can double click the figures throughout the report (in MS Word) to view a table of the data. More results from the National Visitor Use Monitoring program including results for individual reporting units are available at [USDA Forest Service National Visitor Use Monitoring](#)

## Forest Service Use of Visitor Data

Results from the National Visitor Use Monitoring Program are used for a number of purposes:

- To report the best current estimate of visitation to national forests and wilderness areas, including the proportion of visits that come from targeted demographic groups, including children and minorities.
- To provide a sense of the recreation niche for individual national forests and their unique contributions to the set of outdoor recreation opportunities available to the public.
- To measure the contribution the Forest Service makes to the health of the American public through participation in active outdoor pursuits.
- To provide guidance for how to maintain and improve the set of recreation opportunities the Agency provides.
- To document the contribution that Forest Service recreation visitation makes to the economic well-being of both forest-dependent communities and the Nation.

## Visitation Estimates

Table 1a displays the number of annual national forest visits and national forest site visits for the entire National Forest System estimated for FY2021. The site visit estimate includes visits to Wilderness areas. Table 1b shows the estimates for visitation since FY2017. Table 2 shows the number of national forest and Wilderness visits in each Forest Service region. The current annual visitation estimate is just about 168 million national forest visits. The 90 percent confidence interval for that estimate ranges from 164.5 million to just under 172 million. In 2020, we estimate Wilderness accounted for slightly less than 17

million recreational visits annually, compared to its normal range of around 9 million. The increase is a result of peoples’ desires to be outdoors in uncrowded, natural settings during the COVID pandemic.

Most people (84 percent) who recreate on a particular national forest describe recreating on that forest as their primary destination for the trip away from home (Figure 1). That is, the recreation opportunities provided on land managed by the Agency were the main reason these visitors decided to make a trip away from home. The rest were people making a side trip to recreate on the national forest during a trip where the primary trip purpose was recreating elsewhere or some other, non-recreation, purpose.

**Table 1a.** Overall annual visitation estimate for the National Forest System, for FY2019.

Visit type	Visits (Thousands)	90 Percent Confidence Interval Width (Percent)	90 Percent Confidence Interval Range (Thousands Of Visits)
<b>Total Estimated Site Visits</b>	202,731	2.2	198,271 – 207,191
<b>Designated Wilderness Visits<sup>a</sup></b>	11,427	6.2	10,718 – 12,135
<b>Total Estimated National Forest Visits</b>	156,109	2.4	152,363 – 159,855

<sup>a</sup> Designated Wilderness visits are included in the Site Visits estimate.

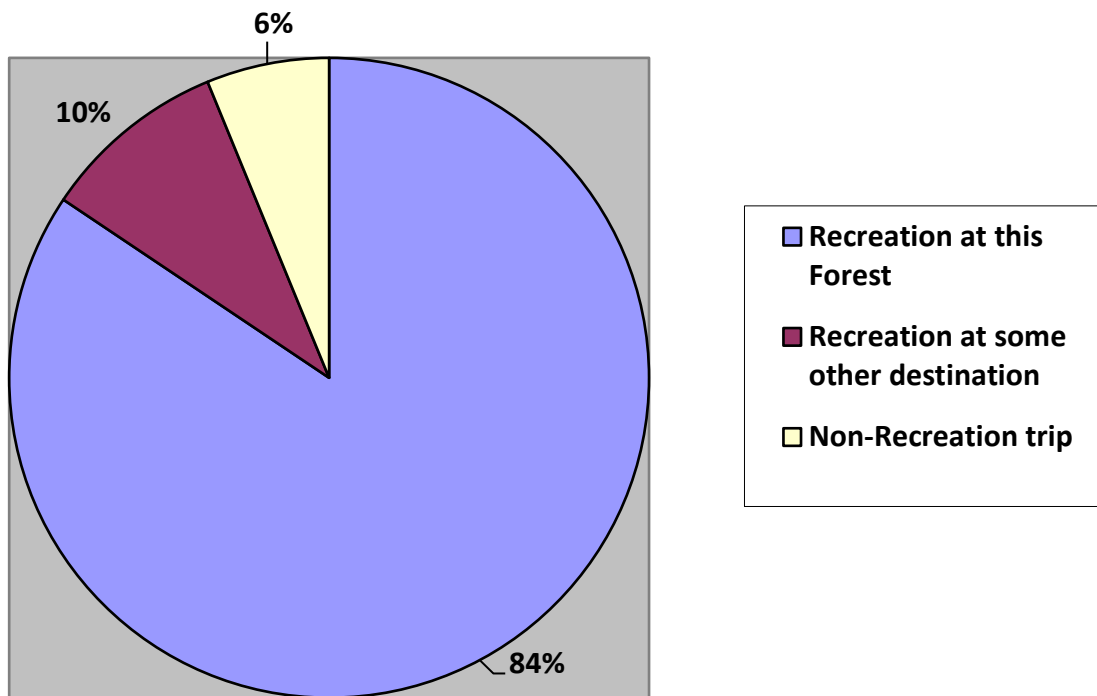
**Table 1b.** National visitation estimate (in thousands) for the National Forest System, in recent years.

Visit type	FY2013-FY2017	FY2014-FY2018	FY2015-FY2019	FY2016-FY2020	FY2017-FY2021
<b>Day Use Developed Sites</b>	75,425	76,830	77,420	74,855	72,107
<b>Overnight Use Developed Sites</b>	13,838	14,057	14,228	12,900	13,424
<b>General Forest Areas</b>	90,277	91,807	93,227	115,902	105,773
<b>Wilderness</b>	8,777	8,884	8,981	16,045	11,427
<b>Total Site Visits</b>	188,317	191,578	193,857	219,703	202,731
<b>National Forest Visits</b>	149,268	150,195	149,960	168,244	156,109

**Table 2.** Regional annual visitation estimates for the National Forest System, for FY2017 - FY2021.

<b>Region</b>	<b>National Forest Visits (1000s)</b>	<b>90 Percent Confidence Interval, As Percent Of Visits</b>	<b>Wilderness Visits (1000s)</b>	<b>90 Percent Confidence Interval, As Percent Of Visits</b>
<b>01: Northern</b>	9,884	4.7	669	7.2
<b>02: Rocky Mountain</b>	31,759	7.3	2,358	8.4
<b>03: Southwestern</b>	15,244	5.6	2,143	12.5
<b>04: Intermountain</b>	20,512	6.1	931	10.4
<b>05: Pacific Southwest</b>	24,288	4.9	2,288	6.6
<b>06: Pacific Northwest</b>	17,203	5.6	1,020	9.9
<b>08: Southern</b>	22,746	7.0	1,264	11.6
<b>09: Eastern</b>	11,660	7.4	710	10.8
<b>10: Alaska</b>	2,812	5.3	44	13.5
<b>TOTAL</b>	<b>156,109</b>	<b>2.4</b>	<b>11,427</b>	<b>6.2</b>

**Figure 1.** Purpose of Trip for FY2017 - FY2021.



## DESCRIPTION OF THE RECREATION VISIT

### Demographics

Demographic characteristics provide an overall picture of the customer base for national forest recreation. Table 3 shows the percentage of visits by men and women. Table 4 presents the racial and ethnic distribution of visits, and Table 5 shows the age distribution. A large proportion of national forest visits and visits to designated wilderness come from people who live nearby (Figure 3). Foreign visitors are not overly common (Table 6); Europeans and Canadians each account for a little more than one-third of all foreign visits.

**Table 3.** Percent of national forest and wilderness visits by gender, for FY2017 - FY2021.

<b>Gender</b>	<b>National Forest Visits (Percent)</b>	<b>Wilderness Visits (Percent)</b>
<b>Female</b>	38	42.0
<b>Male</b>	62	58.0
<b>Total</b>	100.0	100.0

**Table 4.** Percent of national forest and wilderness visits by race and ethnicity, for FY2017 - FY2021.

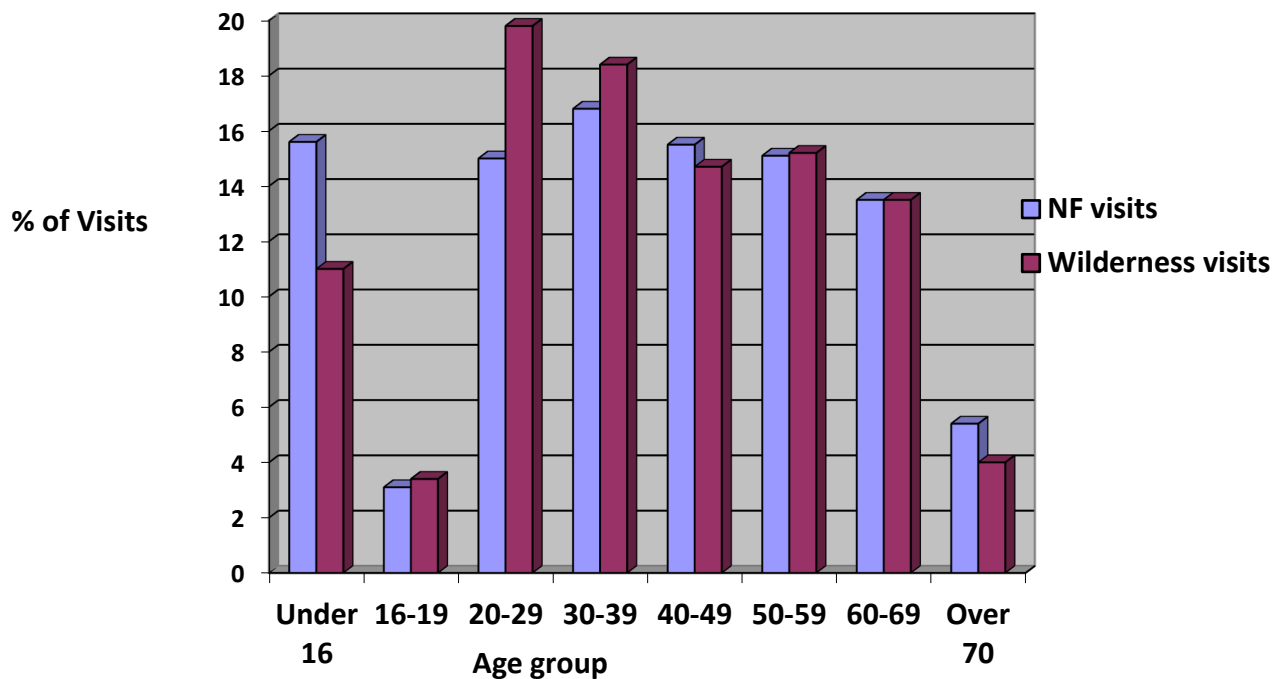
<b>Race/Ethnicity <sup>a</sup></b>	<b>National Forest Visits (Percent)</b>	<b>Wilderness Visits (Percent)</b>
<b>American Indian/Alaska Native</b>	1.8	1.8
<b>Asian</b>	3.2	4.3
<b>Black/African American</b>	1.3	0.9
<b>Native Hawaiian or other Pacific Islander</b>	0.6	0.6
<b>White</b>	95.2	94.4
<b>Spanish, Hispanic, or Latino</b>	6.7	6.0

<sup>a</sup>“Spanish, Hispanic or Latino” is presented in a separate question because it is an ethnicity, not a race. Respondents first stated whether they were of this ethnicity, then a separate question asked which of the racial categories applied to them. Respondents could choose more than one racial group.

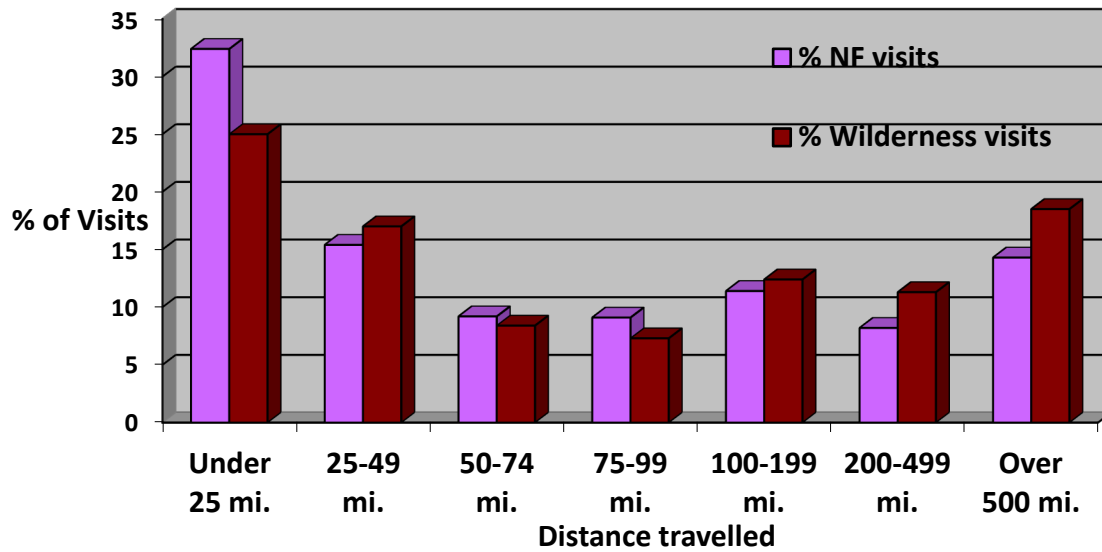
**Table 5.** Percent of national forest and wilderness visits by age class, for FY2017 - FY2021.

Age	National Forest Visits (Percent)	Wilderness Visits (Percent)
Under 16	15.6	11.0
16-19	3.1	3.4
20-29	15.0	19.8
30-39	16.8	18.4
40-49	15.5	14.7
50-59	15.1	15.2
60-69	13.5	13.5
70 and over	5.4	4.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>

**Figure 2.** Distribution of national forest and Wilderness visits by age group.



**Figure 3.** Distribution of national forest visits by travel distance categories, for FY2017 - FY2021.



**Table 6.** Percent of national forest visits by origin for foreign visitors, for FY2017 - FY2021.

Origin	% National Forest Visits
Asia	0.1
Canada	0.7
Europe	0.7
Mexico	0.1
South America	0.0
Some other origin	0.3



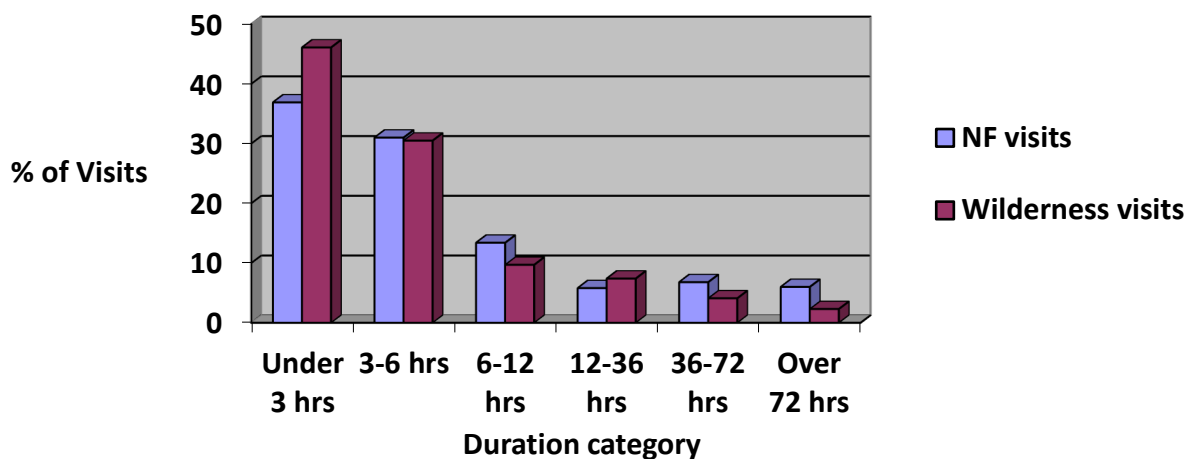
## Visit Descriptions

Characteristics of the recreation visit such as length of visit, types of sites visited, activity participation and visitor satisfaction with forest facilities are of interest to a variety of stakeholders. Short visits to national forests and wilderness areas are typical (Table 7) and the great majority of visitors to national forests only go to one location on the forest during their visit (Table 8). However, some visitors do go to more than one recreation site or area. Often, these are the people who stay for a relatively long time and visit several different locations. Visitors were asked how often they visit a given national forest for all recreational activities, and how often for their primary activity (Table 9). Most visits are made by people who visit the forest on which they were surveyed only a few times per year. Most of the people who visit frequently live close to the national forest they visit.

**Table 7.** Visit duration for national forest visits, for FY2017 - FY2021.

Visit Type	Average Duration (hours)	Median Duration (hours)
Site Visit	9.1	2.8
Day Use Developed	2.8	2.4
Overnight Use Developed	49.7	41.0
Undeveloped Areas	8.0	2.8
Designated Wilderness	9.3	3.2
National Forest Visit	17.6	4.0

**Figure 4.** Distribution of national forest and wilderness visits by duration categories, for FY2017 - FY2021.



**Table 8.** Other visit characteristics for national forest recreation visits, for FY2017 - FY2021.

<b>Characteristic</b>	<b>Percent</b>
<b>Percent of recreational visitors who visit just one national forest site during their entire national forest visit</b>	83.0
<b>Average number of national forest sites visited during each national forest visit</b>	1.3
<b>Average group size</b>	2.3

**Table 9.** Percent of national forest visits by annual visit frequency, for FY2017 - FY2021.

<b>Number of reported annual visits</b>	<b>For All activities</b>	<b>For Just Primary Activity</b>
<b>1 – 5 times per year</b>	47.6	55.5
<b>6 – 10 times per year</b>	10.4	11.9
<b>11 – 15 times per year</b>	6.2	6.1
<b>16 – 20 times per year</b>	5.1	4.9
<b>21 – 25 times per year</b>	3.0	2.5
<b>26 – 30 times per year</b>	3.6	3.0
<b>31 – 35 times per year</b>	0.6	0.8
<b>36 – 40 times per year</b>	2.3	1.9
<b>41 – 50 times per year</b>	5.0	3.5
<b>51 – 100 times per year</b>	7.9	5.5
<b>101 – 200 times per year</b>	5.1	3.0
<b>201 – 300 times per year</b>	1.9	0.9
<b>Over 300 times per year</b>	1.2	0.5

## Activities

Most national forest visitors participate in several recreation activities during each visit. However, nearly all can identify a single primary activity on the visit. A small portion list more than one primary activity; a few do not specify any primary activity. Visitors were asked how many hours they spent doing their primary activity (Table 10).

Recreation on national forests also contributes to the overall health of those who visit. Around 60 percent of visits come primarily to engage in a physically active pursuit. On average, these people spend a little less than 5 hours per visit participating in their primary activity.

**Table 10.** Activity participation for national forest recreation visits, for FY2017 - FY2021.

Activity	% Percent Of Visitors Who Participated In This Activity <sup>a</sup>	% Indicating As Their Primary Activity <sup>b</sup>	Average Hours Spent In Primary Activity <sup>c</sup>
Developed Camping	8.0	3.5	45.3
Primitive Camping	3.2	0.9	36.7
Resort Use	1.6	0.2	37.8
Nature Center Activities	5.6	0.3	2.0
Nature Study	6.0	0.3	5.6
Viewing Wildlife	28.8	1.4	3.6
Viewing Natural Features	42.5	10.1	3.3
Visiting Historic or Prehistoric Sites	5.3	0.2	2.9
Relaxing, Hanging out, Escaping Heat or noise	30.8	4.5	14.3
Picnicking	8.6	1.1	8.8
OHV Use	3.1	1.3	6.0
Motorized Trail Activity	2.6	0.9	5.8
Snowmobiling	1.6	1.3	4.4
Driving for Pleasure	18.5	3.8	3.7
Motorized Water Activities	1.8	0.7	11.3
Other Motorized Activity	0.5	0.1	4.3
Fishing*	9.0	5.2	6.3
Hunting*	4.9	4.2	11.6
Gathering Forest Products*	3.2	0.8	3.4
Hiking / Walking*	49.1	27.1	3.6
Backpacking*	2.0	0.8	33.9
Horseback Riding*	0.6	0.4	6.0
Bicycling*	5.9	3.9	3.0
Downhill Skiing / Snowboarding*	17.6	16.7	4.5
Cross-country Skiing / Snowshoeing*	4.4	3.6	2.9
Non-motorized Water*	3.1	1.4	4.9

<b>Activity</b>	<b>% Percent Of Visitors Who Participated In This Activity<sup>a</sup></b>	<b>% Indicating As Their Primary Activity<sup>b</sup></b>	<b>Average Hours Spent In Primary Activity<sup>c</sup></b>
<b>Other Non-motorized</b>	5.8	2.0	3.3
<b>Some Other Activity</b>	4.8	3.0	3.7
<b>No Activity Reported</b>	0.8	1.4	.

<sup>a</sup> Survey respondents could select multiple activities so this column may total more than 100 percent.

<sup>b</sup> Respondents were asked to select one activity as their main one. Some selected more than one, so this column may total more than 100 percent.

<sup>c</sup> Computed only for those who indicated the activity was the main activity on their visit.

\* Indicates that this activity is considered to be physically active.

## **CUSTOMER SATISFACTION**

A critical element of outdoor recreation program delivery is the evaluation of customer satisfaction with the recreation setting, facilities, and services provided. Overall satisfaction levels for national forest visits are quite high (Figure 5).

The Percent Satisfied Index shows very high satisfaction levels for visitors' perceptions of safety (Table 11). Satisfaction levels pertaining to access were above the target of 85 percent satisfied for two of three types of sites. Satisfaction levels with services (signage, information, and employee helpfulness) were between 76 and 87 percent; the lower satisfaction levels occur in dispersed recreation settings, where those services are less common. Comparing these results to the overall satisfaction results indicates that safety and access are likely to be among the most important elements of customer satisfaction.

Most places on national forests do not have any fees associated with recreation use. However for those that do have fees, the majority of visitors are satisfied with the value they receive for the fees they paid. In developed sites, including ski areas and overnight sites, 85 percent are satisfied.

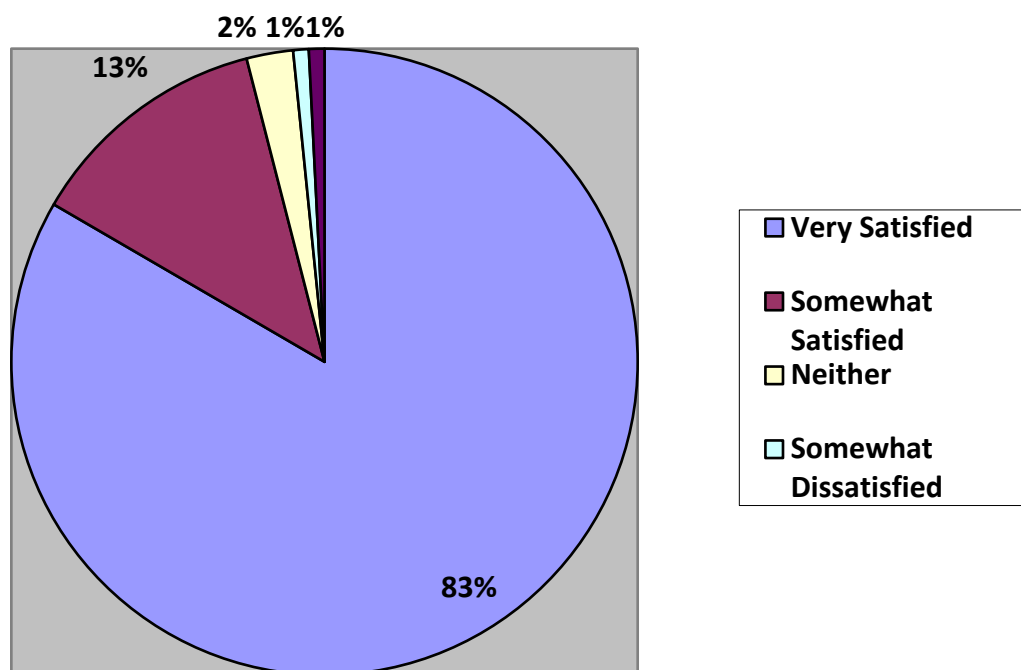
The Percent Meets Expectations (PME) measure shows that the congruence between performance and expectations is quite high for the feeling of safety – greater than 89 percent in each of the three types of sites (Figure 6). Access elements are above 80 percent for each of the site types. The PME levels for developed facility items are above 75 percent for all areas.

National importance-performance results show that there are no elements that fall into the 'Concentrate here' quadrant (Table 12). Nearly all were in the 'Keep up the good work' quadrant. Parking lot conditions and interpretive displays appear to be of somewhat lesser importance to visitors to Wilderness. The overall ratings of road conditions and adequacy of signage were quite good: for over half of all visits both the importance and satisfaction for these items were rated as high as possible (Figures 7a and 7b).

Feeling that an area is very crowded can diminish recreation satisfaction. Visitors to both types of developed sites report higher levels of crowding than do users of dispersed sites (Table 13, and Figure 8). For the developed sites, roughly 15 percent of people felt there were high levels (8 or higher) of

crowding. In dispersed settings about 47 percent of the visitors felt that the areas were not crowded, giving a rating of 1 – 3. In Wilderness, the percentage giving uncrowded ratings was somewhat lower (40%).

**Figure 5.** Percent of national forest visits by overall satisfaction rating, for FY2017 - FY2021



**Table 11.** National forest visitation percent satisfaction index <sup>a</sup> scores for aggregate categories, for FY2017 - FY2021.

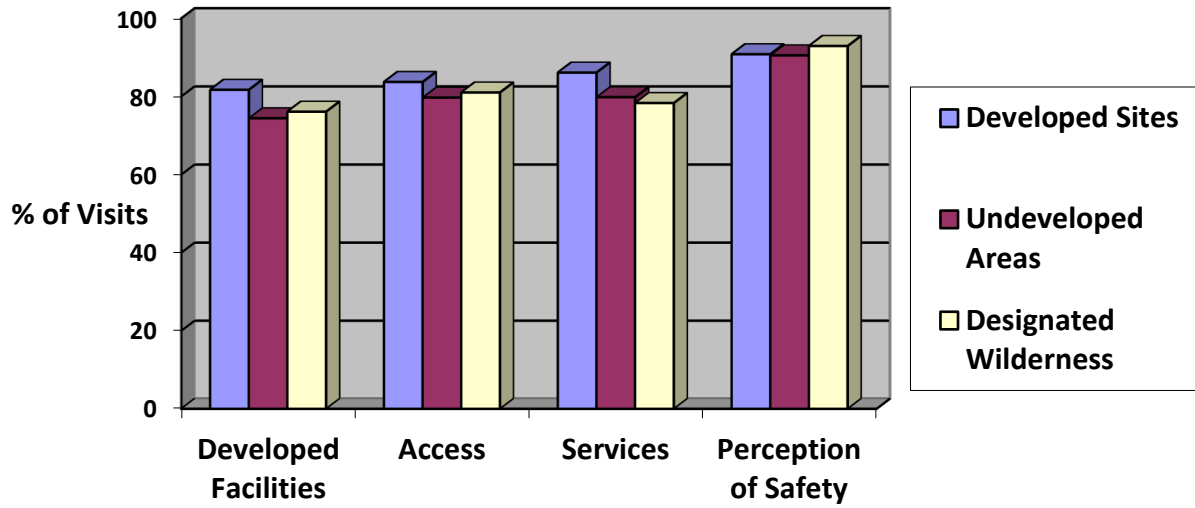
**Satisfied Visits (percent)**

Items Rated	Developed Sites <sup>b</sup>	General Forest Areas	Designated Wilderness
Developed facilities (includes restroom cleanliness and facility condition)	89.0	80.0	79.0
Access (includes parking availability, parking lot condition, road condition and trail condition)	89.1	83.8	86.3
Services (includes availability of information, signage and employee helpfulness)	87.3	76.6	80.2
Perception of safety	97.3	95.6	97.0
Value received for any fee paid at the site	87.2	89.8	88.8

<sup>a</sup> Composite ratings of the proportion of satisfaction ratings scored by visitors as satisfied or very satisfied. The values are computed as the percentages of all ratings for the elements within the groupings that are at or above the target level, and indicate the percent of all visits where the person was satisfied with agency performance.

<sup>b</sup> This category includes both Day Use and Overnight Use Developed Sites.

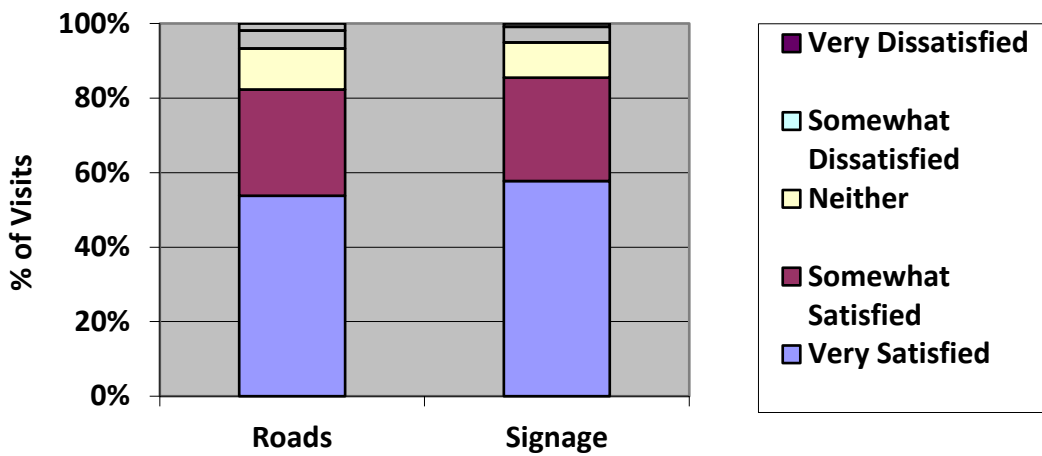
**Figure 6.** Percent meets expectations results for national forest visits by type of site, FY2017 - FY2021.



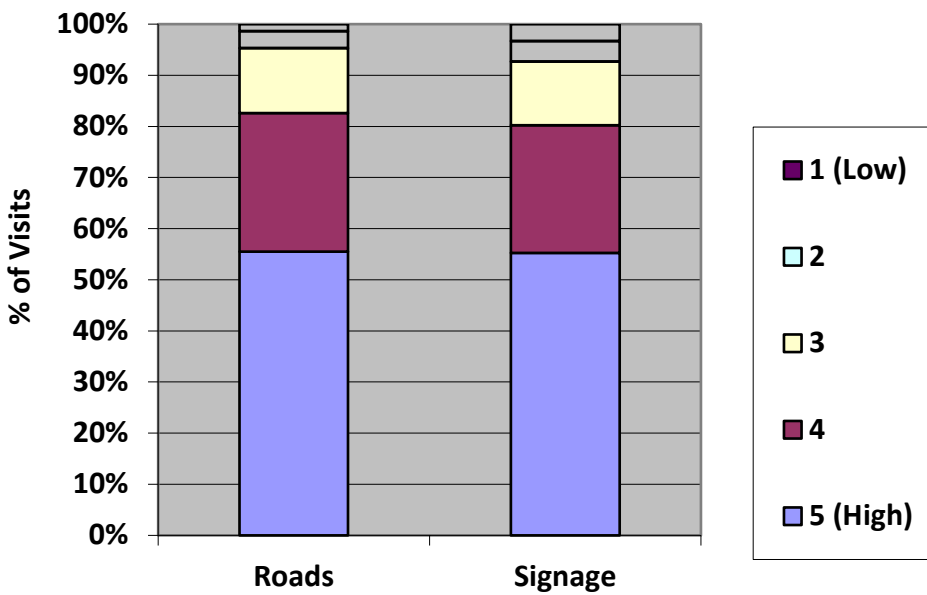
**Table 12.** Importance-performance ratings for satisfaction items, by type of site.

<b>ITEM</b>	<b>Day Use Developed Sites</b>	<b>Overnight Use Developed Sites</b>	<b>Undeveloped Areas</b>	<b>Designated Wilderness</b>
<b>Restroom cleanliness</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Developed facility condition</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Condition of environment</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Employee helpfulness</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Interpretive display</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Possible Overkill
<b>Parking availability</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Parking lot condition</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Rec. info. available</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Road condition</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Feeling of safety</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Scenery</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Signage adequacy</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Trail condition</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work
<b>Value for fee paid</b>	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work	Keep up the Good Work

**Figure 7a.** Overall satisfaction with forest-wide road conditions and signage adequacy, for FY2017 - FY2021.



**Figure 7b.** Overall importance ratings for road condition and signage adequacy, for FY2017 - FY2021.



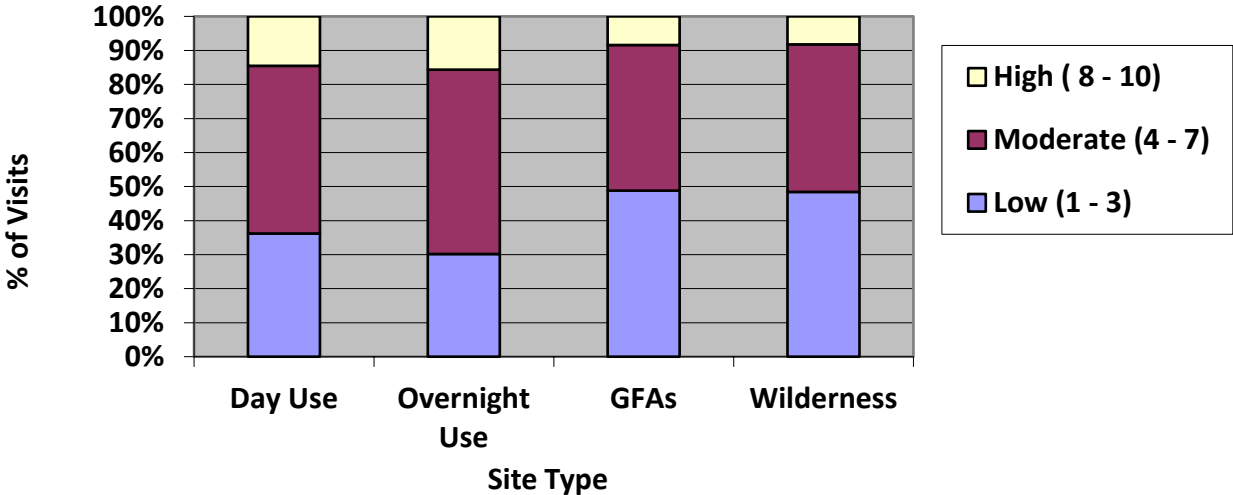


**Table 13.** National forest visitor perceptions of crowding by site type, for FY2017 - FY2021.

**Perception of Crowding by Site Types (Percent site visits percent)**

Crowding Rating	Day Use Developed Sites <sup>c</sup>	Overnight Use Developed Sites	General Forest Areas	Designated Wilderness
10 Overcrowded	2.4	1.8	1.4	0.9
9	6.0	5.2	2.5	2.6
8	6.1	8.7	4.5	4.7
7	6.6	8.6	6.1	5.9
6	16.4	21.6	12.8	12.4
5	11.1	11.9	10.3	10.8
4	15.1	12.0	13.0	14.4
3	15.4	11.7	16.6	20.4
2	15.3	14.3	24.0	22.3
1 Hardly anyone there	5.7	4.2	8.8	5.7

**Figure 8.** Distribution of site visits into general crowding categories.



## Disabilities

The Forest Service is committed to integrating accessibility considerations into its sustainable recreation planning so all people, including those with disabilities, can recreate. The accessibility of recreation facilities is an important part of this policy. About seven percent of national forest visits are made by people in groups where one or more group members have a disability (Table 14). For nearly 87 percent of these parties, the facilities they used were rated as accessible.

**Table 14.** Accessibility for national forest visits by persons with disabilities, for FY2017 - FY2021.

<b>Item</b>	<b>Percent</b>
<b>Percent of visitors interviewed with group member having a disability</b>	6.3
<b>Of this group, percent who said facilities at site visited were accessible</b>	85.5

## VISITOR SPENDING AND ECONOMICS

### Visitor Spending

Visitors to national forests often spend money in nearby communities during the time they are on their recreation trips. These communities benefit directly from that spending. About 45 percent of visits to national forests are from residents of the local area who are on day trips. Few local residents stay overnight away from their home on or near the forests. About 13 percent of non-local residents make visits while on day trips away from home. More non-locals on overnight trips spend the night in facilities off the forest than on the forest. The national forest was not the primary reason for the trip away from home for about 7 percent of national forest visits.

Visitors spend money in towns that are near national forests for things like gasoline, food, lodging, and souvenirs. The spending segments differ markedly in the amount of money per party. In general, visitors who come from outside the local area spend more than do those who are from the local area. Those parties staying overnight off of national forest lands spend more than those who spend the night on the national forest. Those coming for the primary purpose of downhill skiing typically spend more per visit than for other types of recreation.

The most current economic data on visitor spending and resultant economic effects comes from FY2019. Economic data for 2020 is not yet available to accurately portray the contributions from visitors and their spending in 2020. The annual economic data, paired with forest service visitation and spending, depends on detailed, and ongoing, compilation and estimation of interindustry and institutional relationships in our national and local economies. The 2020 economic data will portray a recession, some recovery, and extraordinary economic circumstances relevant to the recreation related economies surrounding national forests and grasslands. Final analysis of the effects of the 168 million visits in FY2021 will be completed in early 2022 when the economic data is available.

Overall, in FY2019 recreating visitors spent over \$10 billion in areas around National Forest System lands (Table 15). Many downhill skiers are from outside the local area and are staying in off-forest lodging. As a result, downhill skiers account for around \$3.4 billion in local spending. Visitors for wildlife-related recreation spend least as a group, largely because roughly two-thirds of these visits are made by people on day trips away from home. As visitor spending ripples through the economy, further economic activity is created. In total, spending by visitors to national forests and grasslands contributes about \$12.5 billion to the US economy and sustains about 154,000 full-and part-time jobs. Greater spatial detail on the contribution of visitor spending to economic regions around individual National Forest units is available in the [Economic Contribution of Recreation: Website User Guide](#).

**Table 15.** Visitor spending and associated economic effects of recreation visits to national forest land, for FY2015 - FY2019.

<b>Effects from:</b>	<b>Downhill Skiing Visits</b>	<b>Wildlife-Related Visits</b>	<b>Other Recreation Visits</b>	<b>TOTAL VISITS</b>
<b>Millions of national forest Visits</b>	23.3	16.8	109.8	150.0
<b>Direct spending in local economies, (millions of \$2019)</b>	\$3,410	\$1,120	\$5,560	\$10,090
<b>Total GDP contributions (millions of \$2019)</b>	\$4,480	\$1,270	\$6,760	\$12,510
<b>Full- and part-time jobs sustained, (thousands)</b>	57	15	82	154

About 38 percent of visits to national forests are made by people who are spending at least one night away from home (Table 16). For most of them, it includes at least one night spent within 50 miles of the forest they visited. Those spending the night within 50 miles of the forest stay an average of about 5 nights. For those spending one or more nights on or near the forest, about 40 percent stay in hotels or lodges off the forest. About 20 percent camp at developed campgrounds on the national forest; about 11 percent camp in undeveloped areas of the forest.

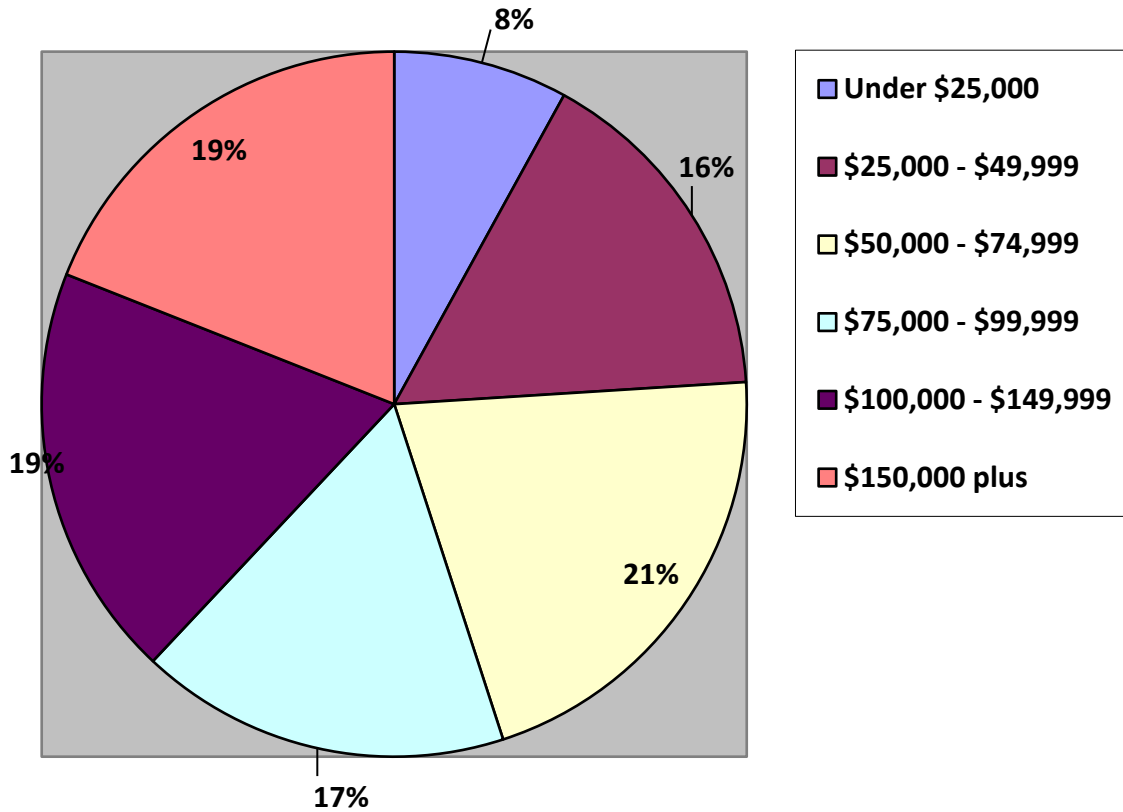
**Table 16.** Visitor trip information, for FY2017 - FY2021.

Item	%
Percent of visits that occur on trips with an overnight stay away from home	38.3
Percent of visits that occur on trips with an overnight stay within 50 miles of the visited forest	35.6
For overnight visits, average number of nights within 50 miles of the forest	5.1
<b>For those staying overnight within 50 miles of the national forest, percent indicating each type of lodging</b>	<b>%</b>
NF campgrounds ON the national forest	20.2
Camping in undeveloped areas of the national forest	13.2
Cabins, lodges, hotels or huts ON the national forest	7.2
Other public campgrounds (Park Service, BLM, State Park, other)	3.3
Private campgrounds NOT on the national forest	2.3
Rented home, condo, cabin, lodge or hotel NOT on the NF	35.8
Private home of friend or relative	13.1
Home, cabin, or condo owned by visitor	7.3
Other	1.7

## Household Income

Visitors to national forests have a variety of household income levels (Figure 9). About seventeen percent of visits are made by individuals whose household income is over \$150,000 per year. A smaller percentage (8 percent) comes from people in households earning less than \$25,000 per year. Just under forty percent of all visits come from people in households earning between \$25,000 and \$75,000 per year.

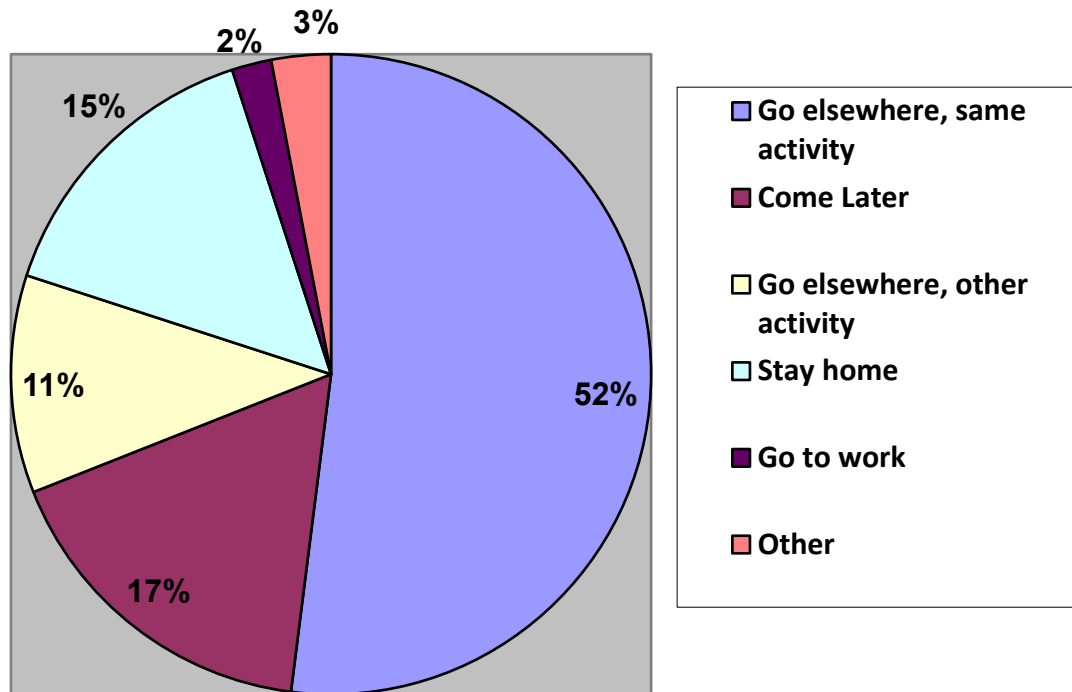
**Figure 9.** Household income of national forest recreation visits, for FY2017 - FY2021.



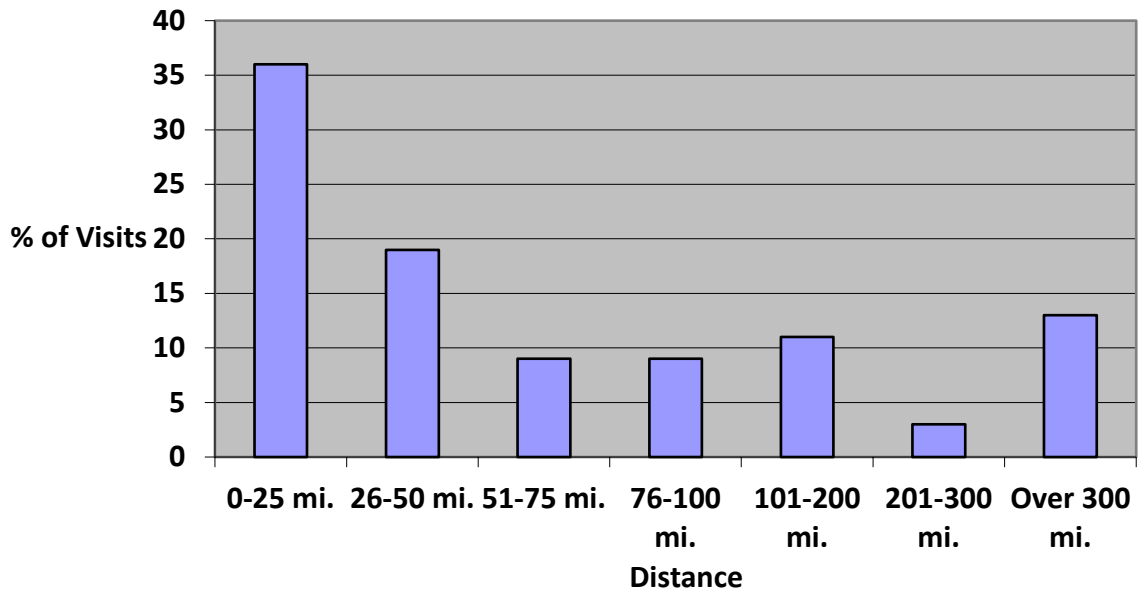
## Substitute behavior

What other recreation options the visitor considers using provides information about the other outdoor recreation opportunities that are substitutes for the opportunities provided by the Agency. The question we asked was what people would do if the forest was not available for recreation for this visit. Over half (51 percent) indicate that their substitute behavior choice is activity driven – that is, their substitute is going elsewhere for same activity (Figure 10). About sixteen percent indicate they would come back later for the same activity. Less than 20 percent of visitors said they would have gone to work (2 percent) or stayed home (14 percent) instead of recreating. For those visitors, there appears to be no readily accessible substitute for the recreation opportunity provided by the agency. Visitors who said they would have gone somewhere else for recreation also indicated how far from their home this alternate destination was (Figure 11). The distribution of travel distances to alternative locations is very similar to the distribution of travel distances for national forest visits, which may indicate that a reasonable set of alternative destinations indeed exists for most visits.

**Figure 10.** Substitute behavior choices of national forest visitors, for FY2017 - FY2021.



**Figure 11.** Reported distance visitors would travel to alternative recreation locations, for FY2013 – FY2017.





## Appendix A. Detailed Satisfaction Results

**Table A-1.** Satisfaction of national forest recreation visitors at developed day use sites, for FY2017 - FY2021.

ITEM	Very Dissatisfied	Somewhat Dissatisfied	Neither	Somewhat Satisfied	Very Satisfied	Avg. Rating	Mean Importance
Restroom cleanliness	3.2	4.8	9.6	24.6	57.8	4.3	4.5
Developed facility condition	0.3	1.4	5.4	20.8	72.1	4.6	4.4
Condition of environment	0.2	1.5	4.7	17.6	76.0	4.7	4.8
Employee helpfulness	0.4	0.9	4.2	11.9	82.5	4.8	4.6
Interpretive displays	0.8	3.3	13.4	21.3	61.1	4.4	4.1
Parking availability	1.3	4.6	7.5	17.2	69.4	4.5	4.5
Parking lot condition	0.4	2.1	7.3	20.1	70.1	4.6	4.2
Rec. info. availability	0.9	3.8	10.0	23.4	62.0	4.4	4.4
Road condition	0.8	3.0	8.0	24.4	63.8	4.5	4.5
Feeling of safety	0.2	0.3	2.1	12.3	85.1	4.8	4.7
Scenery	0.2	0.4	1.4	8.3	89.8	4.9	4.7
Signage adequacy	1.2	2.6	7.7	20.4	68.1	4.5	4.4
Trail condition	0.4	1.3	5.8	21.7	70.8	4.6	4.6
Value for fee paid	0.8	3.2	8.9	19.8	67.3	4.5	4.6

\*Scale is: Very Dissatisfied = 1 Dissatisfied = 2 Neither = 3 Satisfied = 4 Very Satisfied = 5

\*\* Scale is: 1= Not Important 2= Somewhat Important 3= Moderately Important 4= Important 5 = Very Important

**Table A-2.** Satisfaction of national forest recreation visitors at developed overnight sites, for FY2017 - FY2021.

<b>ITEM</b>	<b>Very Dissatisfied</b>	<b>Somewhat Dissatisfied</b>	<b>Neither</b>	<b>Somewhat Satisfied</b>	<b>Very Satisfied</b>	<b>Avg. Rating</b>	<b>Mean Importance</b>
<b>Restroom cleanliness</b>	3.3	4.3	11.6	25.3	55.6	4.3	4.6
<b>Developed facility condition</b>	1.2	1.6	7.3	23.1	66.7	4.5	4.4
<b>Condition of environment</b>	0.3	1.2	3.5	19.1	75.9	4.7	4.8
<b>Employee helpfulness</b>	1.3	1.1	4.9	10.6	82.0	4.7	4.6
<b>Interpretive displays</b>	1.6	4.1	15.8	25.0	53.5	4.2	4.1
<b>Parking availability</b>	0.9	2.4	5.6	19.5	71.7	4.6	4.4
<b>Parking lot condition</b>	0.2	1.3	6.6	20.7	71.2	4.6	4.1
<b>Rec. info. availability</b>	0.8	5.8	14.2	24.0	55.2	4.3	4.4
<b>Road condition</b>	1.6	3.4	8.7	24.3	62.1	4.4	4.3
<b>Feeling of safety</b>	0.4	0.7	2.0	12.3	84.6	4.8	4.7
<b>Scenery</b>	0.1	0.1	2.8	11.4	85.6	4.8	4.7
<b>Signage adequacy</b>	1.1	3.8	9.2	22.4	63.5	4.4	4.4
<b>Trail condition</b>	0.4	1.3	7.4	24.2	66.7	4.6	4.5
<b>Value for fee paid</b>	1.0	5.0	4.9	19.6	69.5	4.5	4.6

\*Scale is: Very Dissatisfied = 1 Dissatisfied = 2 Neither = 3 Satisfied = 4 Very Satisfied = 5

\*\* Scale is: 1= Not Important 2= Somewhat Important 3= Moderately Important 4= Important 5 = Very Important

**Table A-3.** Satisfaction of national forest recreation visitors in dispersed areas, for FY2017 - FY2021.

<b>ITEM</b>	<b>Very Dissatisfied</b>	<b>Somewhat Dissatisfied</b>	<b>Neither</b>	<b>Somewhat Satisfied</b>	<b>Very Satisfied</b>	<b>Avg. Rating</b>	<b>Mean Importance</b>
<b>Restroom cleanliness</b>	5.7	9.6	12.5	23.6	48.5	4.0	4.3
<b>Developed facility condition</b>	0.8	2.2	7.8	23.4	65.9	4.5	4.2
<b>Condition of environment</b>	0.7	2.3	5.2	20.6	71.3	4.6	4.8
<b>Employee helpfulness</b>	0.8	1.6	7.8	12.1	77.7	4.6	4.4
<b>Interpretive displays</b>	2.1	5.0	18.2	23.7	50.9	4.2	4.0
<b>Parking availability</b>	1.7	4.9	10.9	17.5	65.1	4.4	4.2
<b>Parking lot condition</b>	1.1	2.9	8.9	20.7	66.4	4.5	4.1
<b>Rec. info. availability</b>	1.9	4.9	16.0	25.3	52.0	4.2	4.2
<b>Road condition</b>	3.6	6.9	11.4	26.5	51.6	4.2	4.3
<b>Feeling of safety</b>	0.2	1.1	3.1	12.5	83.2	4.8	4.6
<b>Scenery</b>	0.2	0.8	3.1	11.0	84.9	4.8	4.7
<b>Signage adequacy</b>	2.7	6.0	13.0	22.3	56.0	4.2	4.2
<b>Trail condition</b>	0.9	2.7	7.3	26.3	62.7	4.5	4.5
<b>Value for fee paid</b>	1.3	2.3	8.3	15.1	72.9	4.6	4.4

\*Scale is: Very Dissatisfied = 1 Dissatisfied = 2 Neither = 3 Satisfied = 4 Very Satisfied = 5

\*\* Scale is: 1= Not Important 2= Somewhat Important 3= Moderately Important 4= Important 5 = Very Important

**Table A-4.** Satisfaction of national forest wilderness visitors, for FY2017 - FY2021.

<b>ITEM</b>	<b>Very Dissatisfied</b>	<b>Somewhat Dissatisfied</b>	<b>Neither</b>	<b>Somewhat Satisfied</b>	<b>Very Satisfied</b>	<b>Avg. Rating</b>	<b>Mean Importance</b>
<b>Restroom cleanliness</b>	3.4	8.5	11.9	26.3	49.9	4.1	4.2
<b>Developed facility condition</b>	0.2	1.2	10.1	22.7	65.8	4.5	4.1
<b>Condition of environment</b>	0.3	1.4	2.8	16.2	79.2	4.7	4.8
<b>Employee helpfulness</b>	0.5	0.4	7.4	10.9	80.7	4.7	4.3
<b>Interpretive displays</b>	1.8	5.6	18.1	26.6	47.9	4.1	3.9
<b>Parking availability</b>	2.9	5.9	9.9	17.3	64.1	4.3	4.3
<b>Parking lot condition</b>	0.6	2.3	7.4	18.4	71.4	4.6	3.9
<b>Rec. info. availability</b>	0.8	4.3	13.1	23.6	58.2	4.3	4.3
<b>Road condition</b>	1.9	4.7	10.6	27.2	55.5	4.3	4.3
<b>Feeling of safety</b>	0.1	0.3	2.4	11.7	85.5	4.8	4.5
<b>Scenery</b>	0.1	0.4	1.5	7.7	90.4	4.9	4.8
<b>Signage adequacy</b>	2.0	6.2	13.1	23.7	55.0	4.2	4.4
<b>Trail condition</b>	0.7	2.3	5.1	23.0	68.8	4.6	4.6
<b>Value for fee paid</b>	1.7	0.8	7.3	8.8	81.4	4.7	4.4

\*Scale is: Very Dissatisfied = 1 Dissatisfied = 2 Neither = 3 Satisfied = 4 Very Satisfied = 5

\*\* Scale is: 1= Not Important 2= Somewhat Important 3= Moderately Important 4= Important 5 = Very Important