



United States  
Department of  
Agriculture

Forest Service

Natural Resource  
Manager

National Visitor  
Use Monitoring  
Program



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# Visitor Use Report

**Grand Mesa, Uncompahgre and Gunnison NF**

**USDA Forest Service**

**Region 2**

**National Visitor Use Monitoring**

**Data collected FY 2019**

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## 1. INTRODUCTION

### 1.1. Scope and purpose of the National Visitor Use Monitoring program

The National Visitor Use Monitoring (NVUM) program provides reliable information about recreation visitors to national forest system managed lands at the national, regional, and forest level. 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. To improve public service, the agency's Strategic and Annual Performance Plans require measuring trends in user satisfaction and use levels. NVUM information assists Congress, Forest Service leaders, and program managers in making sound decisions that best serve the public and protect valuable natural resources by providing science based, reliable information about the type, quantity, quality and location of recreation use on public lands. The information collected is also important to external customers including state agencies and private industry. NVUM methodology and analysis is explained in detail in the research paper entitled: Forest Service National Visitor Use Monitoring Process: Research Method Documentation; English, Kocis, Zarnoch, and Arnold; Southern Research Station; May 2002 (<http://www.fs.fed.us/recreation/programs/nvum>).

In 1998 a team of research scientists and forest staff developed a recreation sampling system (NVUM) that provides statistical recreation use information at the forest, regional, and national level. Several Forest Service staff areas including Recreation, Wilderness, Ecosystem Management, Research and Strategic Planning and Resource Assessment were involved in developing the program. From January 2000 through September 2003 every national forest implemented this methodology and collected visitor use information. This application served to test the method over the full range of forest conditions, and to provide a rough national estimate of visitation. Implementation of the improved method began in October 2004. Once every five years, each National Forest and Grassland has a year of field data collection.

This NVUM data is useful for forest planning and decision making. The description of visitor characteristics (age, race, zip code, activity participation) can help forest staff identify their recreation niche. Satisfaction information can help management decide where best to place limited resources that would result in improved visitor satisfaction. Economic expenditure information can help forests show local communities the employment and income effects of tourism from forest visitors. In addition, the visitation estimates can be helpful in considering visitor capacity issues.

### 1.2. Methods

To define the sampling frame, staff on each forest classify all recreation sites and areas into five basic categories called "site types": Day Use Developed Sites (DUDS), Overnight Use Developed Sites (OUDS), Designated Wilderness Areas (Wilderness), General Forest Areas (GFA), and View Corridors (VC). Only the first four categories are counted as national forest recreation visits and are included in the visit estimates. The last category is used to track the volume of people who view national forests from nearby roads; since they do not get onto agency lands, they cannot be counted as visits. For the entire sampling year, each day on each site was given a rating of very high, high, medium, low, or no use according to the expected level of recreational visitors who would be

observed leaving that location for the last time (last exiting recreation use) on that day. The combination of a calendar day and a site or area is called a site day. Site days are the basic sampling unit for the NVUM protocol. Results of this forest categorization are shown in Table 1.

In essence, visitation is estimated through a combination of traffic counts and surveys of exiting visitors. Both are obtained on a random sample of locations and days distributed over an entire forest for a year. All of the surveyed recreation visitors are asked about their visit duration, activities, demographics, travel distance, and annual usage. About one-third were also asked a series of questions about satisfaction. Another one-third were asked to provide information about their income, spending while on their trip, and the next best substitute for the visit.

### 1.3. Definition of Terms

NVUM has standardized measures of visitor use to ensure that all national forest visitor measures are comparable. These definitions are basically the same as established by the Forest Service in the 1970's. Visitors must pursue a recreation activity physically located "on" Forest Service managed land in order to be counted. They cannot be passing through; viewing from non-Forest Service managed roads, or just using restroom facilities. The visitation metrics are ***national forest visits*** and ***site visits***. NVUM provides estimates of both and confidence interval statistics measuring the precision of the estimates. The NVUM methodology categorizes recreation facilities and areas into specific site types and use levels in order to develop the sampling frame. Understanding the definitions of the variables used in the sample design and statistical analysis is important in order to interpret the results.

***National forest visit*** is the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A national forest visit can be composed of multiple site visits. The visit ends when the person leaves the national forest to spend the night somewhere else.

***Site visit*** is the entry of one person onto a national forest site or area to participate in recreation activities for an unspecified period of time. The site visit ends when the person leaves the site or area for the last time on that day.

A ***confidence interval*** is 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***, which tells the degree of certainty that the value lies in the interval. Used together these two terms define the reliability of the estimate, by defining the range of values that are needed to reach the given confidence level. For example, the 2008 national visitation estimate is 175.6 million visits, with a 90% confidence interval of 3.2%. In other words, given the NVUM data, our best estimate is 175.6 million visits, and given the underlying data, we are 90% certain that the true number is between 170.0 million and 181.2 million.

***Recreation trip*** is the duration of time beginning when the visitor left their home and ending when they return to their home.

***Site day*** - a day that a recreation site or area is open to the public for recreation purposes.

***Proxy*** - information collected at a recreation site or area that is directly related to the amount of

recreation visitation received. The proxy information must pertain to all users of the site and it must be one of the proxy types allowed in the NVUM pre-work directions (fee receipts, fee envelopes, mandatory permits, permanent traffic counters, group reservations, ticket sales, and daily use records).

**Nonproxy** - a recreation site or area that does not have proxy information. At these sites a 24-hour traffic count is taken to measure total use for one site day at the sample site.

**Use level** - for each day of the year for each recreation site or area, the site day was categorized as very high, high, medium or low last exiting recreation traffic, or no exiting use. No Use could mean either that the location was administratively closed, or it was open but was expected to have zero last exiting visitors. For example a picnic area may be listed as having no use during winter months (120 days), high last exiting recreation volume on all other weekends (70 days) and medium last exiting recreation use on the remaining midweek days (175 days). This accounts for all 365 days of the year. This process was repeated for every site and area on the forest.

## 1.4. Limitations of the Results

The information presented here is valid and applicable at the forest, regional, and national level. It is not designed to be accurate at the district or site level. The quality of the visitation estimate is dependent on the sample design development, sampling unit selection, sample size and variability, and survey implementation. First, preliminary work conducted by forests to identify and consistently classify sites and access points according to the type and amount of expected exiting visitation is the key determinant of the validity and magnitude of the visitation estimate. Second, the success of the forest staff in accomplishing its assigned set of sample days, correctly filling out the interview forms, and following the field protocols influence the reliability of the results, variability of the visitation estimate, and validity of the visitation descriptions. Third, the variability of traffic counts within a sampling stratum affects the reliability of the visitation estimates. Fourth, the range of visitors sampled must be representative of the population of all visitors. Finally, the number of visitors sampled must be large enough to adequately control variability. The results and confidence intervals will reflect all these factors.

Confidence intervals indicate the reliability of the visitation estimate, given the underlying data. Large confidence intervals indicate high variability in the national forest visit (NFV), site visit (SV) and Wilderness visit estimates. Variance is caused primarily by a small sample size in number of days or having a few sampled days where the observed exiting visitation volume was very different from the normal range. For example, on a particular National Forest in the General Forest Area low stratum, there were 14 sample days. Of these 14 sample days, 13 days had visitation estimates between zero and twenty. The remaining day had a visitation estimate of 440. So the stratum mean was about 37 per day, standard error was about 116, and the 90% confidence interval width is 400% of the mean. Causes for such outlier observations are not known, but could include a misclassification of the day (a high use day incorrectly categorized as a low use day), unusual weather, malfunctioning traffic counter, or reporting errors. Eliminating the unusual observation from data analysis would reduce the variability. However, unless the NVUM team had reason to suspect the observation was incorrect they did not eliminate these unusual cases.

The descriptive information about national forest visitors is based upon only those visitors that were interviewed. Every effort was made to incorporate distinct seasonal use patterns and activities that

vary greatly by season into the sampling frame. The sampling plan took into account both the spatial and seasonal spread of visitation patterns across the forest. Even so, because of the small sample size of site-days, or because some user groups decline to participate in the survey, it is possible to under-represent certain user groups, particularly for activities that are quite limited in where or when they occur.

Note that the results of the NVUM activity analysis DO NOT identify the types of activities visitors would like to have offered on the national forests. It also does not tell us about displaced forest visitors, those who no longer visit the forest because the activities they desire are not offered.

Some forest visitors were counted and included in the total forest use estimate but were not surveyed. This included visitors to recreation special events and organization camps. Their characteristics are not included in the visit descriptions.

Caution should be used in interpreting any comparisons of these results with those obtained during the 2000 - 2003 period. Differences cannot be interpreted as a trend. Several method changes account for the differences, for both visitation estimates and visit characteristics. One key factor is that the first application of the NVUM process was largely a national beta-test of the method, and significant improvements occurred following it. The NVUM process entailed a completely new method and approach to measuring visitation on National Forest lands. Simply going through the NVUM process for the first time enabled forest staff to do a much better job thereafter in identifying sites, accurately classifying days into use level strata, and ensuring consistency across all locations on the forest. These improvements enhanced the validity of all aspects of the NVUM results. Sampling plans and quality control procedures were also improved.

## 2. VISITATION ESTIMATES

### 2.1. Forest Definition of Site Days

The population of site days for sampling was constructed from information provided by forest staff. For each site, each day of the year was given a rating of very high, high, medium, low, or none according to the expected volume of recreation visitors who would be leaving the site or area for the last time (last exiting recreation use). The stratum, a combination of site type and use level, was then used to construct the sampling frame. The results of the recreation site/area stratification and days sampled are displayed in Table 1.

Table 1. Site Days and Percentage of Days Sampled by Stratum

Stratum*		Days Sampled	Site Days# in Use Level/Proxy Population	Sampling Rate (%)&
Site Type†	Use Level‡ or Proxy Code§			
DUDS	MEDIUM	10	72	13.9
DUDS	LOW	11	1,810	0.6
DUDS	FE3	6	202	3.0
DUDS	SV1	6	546	1.1
OUDS	LOW	10	507	2.0
OUDS	DUR4	10	2,986	0.3
OUDS	RE1	6	108	5.6
OUDS	RE2	6	722	0.8
OUDS	RE4	6	940	0.6
GFA	HIGH	20	1,174	1.7
GFA	MEDIUM	27	5,687	0.5
GFA	LOW	62	19,779	0.3
WILDERNESS	HIGH	10	80	12.5
WILDERNESS	MEDIUM	11	515	2.1
WILDERNESS	LOW	14	4,309	0.3
<b>Total</b>		<b>215</b>	<b>39,437</b>	<b>0.5</b>

\* Stratum is the combination of the site type and use level or proxy code. Sample days were independently drawn within each stratum.

† DUDS = Day Use Developed Site, OUDS = Overnight Use Developed Site, GFA = General Forest Area ("Undeveloped Areas"), WILDERNESS = Designated Wilderness

‡ Use level was defined independently by each forest by defining the expected number of recreation visitors that would be last-exiting a site or area on a given day. The forest developed the range for very high, high, medium, and low and then assigned each day of the year to one of the use levels.

§ Proxy Code - If the site or area already had counts of use (such as fee envelopes or ski lift tickets) the site was called a proxy site and sampled independent of nonproxy sites.

# Site Days are days that a recreation site or area is open to the public for recreation purposes.

& 0.0 - This value is less than five one-hundredths.

## 2.2. Visitation Estimates

Visitation estimates are available at the national, regional, and forest level. This document provides only National Forest level data. Other documents may be obtained through the National Visitor Use Monitoring web page: [www.fs.fed.us/recreation/programs/nvum](http://www.fs.fed.us/recreation/programs/nvum).



When reviewing the results, users should discuss with forest staff if this forest experienced any unusual circumstances such as forest fires, floods, or atypical weather that may have created an unusual recreation use pattern for the year sampled. Table 2 displays the number of national forest visits and site visits by site type for this National Forest.

**Table 2. Annual Visitation Estimate**

Visit Type	Visits (1,000s)	90% Confidence Level (%)#
Total Estimated Site Visits*	3,180	±15.2
→ Day Use Developed Site Visits	1,175	±5.1
→ Overnight Use Developed Site Visits	75	±15.5
→ General Forest Area Visits	1,747	±27.1
→ Designated Wilderness Visits†	183	±40.4
Total Estimated National Forest Visits§	2,348	±14.1
→ Special Events and Organized Camp Use‡	7	±0.0

\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

† Designated Wilderness visits are included in the Site Visits estimate.

‡ Special events and organizational camp use are not included in the Site Visit estimate, only in the National Forest Visits estimate. Forests reported the total number of participants and observers so this number is not estimated; it is treated as 100% accurate.

§ A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

# This value defines the upper and lower bounds of the visitation estimate at the 90% confidence level, for example if the visitation estimate is 100 +/-5%, one would say "at the 90% confidence level visitation is between 95 and 105 visits."

The quality of the use estimate is based in part on how many individuals were contacted during the sample day and how many complete interviews were obtained from which to estimate NVUM numbers and visitor descriptions. Table 3 and Table 4 display the number of visitor contacts, number of completed interviews by site type and survey form type. This information may be useful to managers when assessing how representative of all visitors the information in this report may be.

**Table 3. Number of Individuals Contacted by Site Type**

Site Type	Total Individuals Contacted	Individuals Who Agreed to be Interviewed	Recreating Individuals Who Are Leaving for the Last Time That Day
Day Use Developed Sites	367	272	103
Overnight Use Developed Sites	223	148	62
Undeveloped Areas (GFAs)	908	661	339
Designated Wilderness	297	206	128
<b>Total</b>	<b>1,795</b>	<b>1,287</b>	<b>632</b>

**Table 4. Number of Complete Interviews\* by Site Type and Form Type**

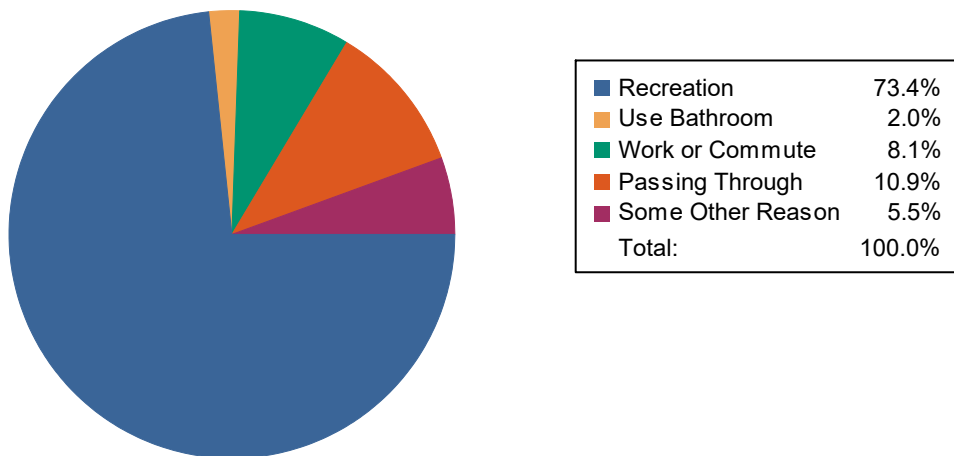
Form Type†	Developed Day Use Site	Developed Overnight	Undeveloped Areas (GFAs)	Wilderness	Total
Basic	32	23	122	51	228
Economic	32	19	115	40	206
Satisfaction	39	20	102	37	198
<b>Total</b>	<b>103</b>	<b>62</b>	<b>339</b>	<b>128</b>	<b>632</b>

\* Complete interviews are those in which the individual contacted agreed to be interviewed, was recreating on the national forest and was exiting the site or area for the last time that day.

† Form Type is the type of interview form administered to the visitor. The Basic form did not ask either economic or satisfaction questions. The Satisfaction form did not ask economic questions and the Economic form did not ask satisfaction questions.

Visitors were interviewed regardless of whether they were recreating at the site or not, however the interview was discontinued after determining that the reason for visiting the site was not recreation. Figure 1 displays the various reasons visitors gave as their purpose for stopping at the sample site.

Figure 1. Purpose of Visit by Visitors Who Agreed to be Interviewed



### 3. DESCRIPTION OF THE RECREATION VISIT

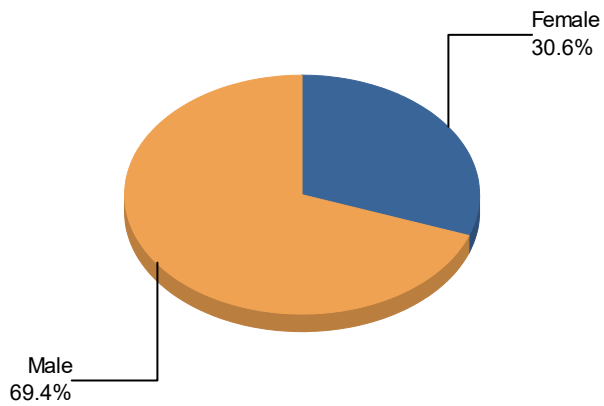
#### 3.1. Demographics

Descriptions of forest recreational visits were developed based upon the characteristics of interviewed visitors (respondents) and expanded to the national forest visitor population. Basic demographic information helps forest managers identify the profile of the visitors they serve. Management concerns such as providing recreation opportunities for underserved populations may be monitored with this information. Table 5, Table 6 and Table 7 provide basic demographic information about visitors interviewed regarding Gender, Race/Ethnicity, and Age, respectively. Table 8 shows the 15 most common reported origins for recreation visitors. A complete list of reported zip codes for respondents is found in Appendix A. Table 9 provides information about self reported travel distance from home to the interview site.

Demographic results show that about 30% of visits to the GMUG NF are made by females. Among racial and ethnic minorities, the most commonly encountered are Hispanic/Latinos (2.7%). The age distribution shows that about 17% of visits are children under age 16. People over the age of 60 account for about 20% of visits. About 19% of visits are from those living within 25 miles of the forest: over 35% come from people who live between 25 and 50 miles away. Yet, about 20% of visits come from those living more than 200 miles away.

Table 5. Percent of National Forest Visits\* by Gender

Gender	Survey Respondents†	National Forest Visits (%)‡
Female	494	30.6
Male	662	69.4
<b>Total</b>	<b>1,156</b>	<b>100.0</b>



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

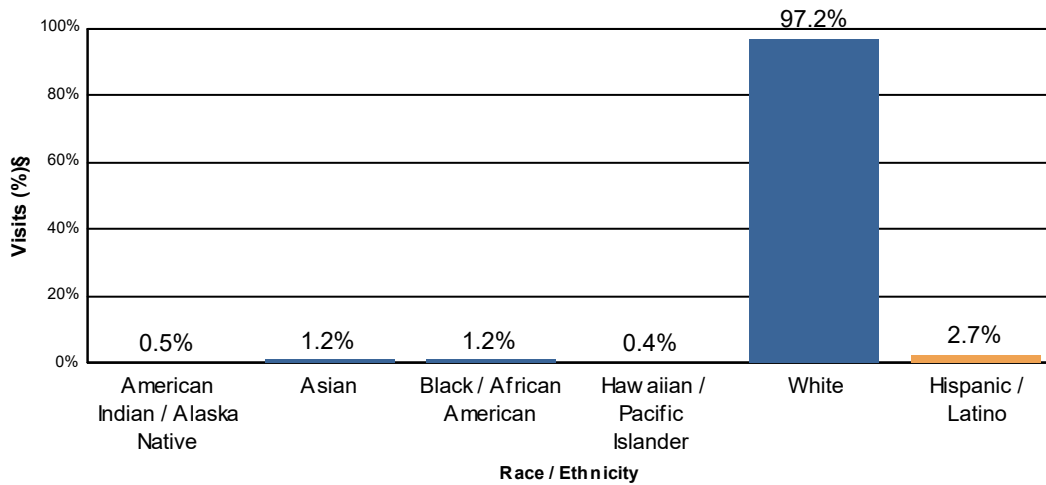
† Non-respondents to gender questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of National Forest Visits.

Table 6. Percent of National Forest Visits\* by Race/Ethnicity

Race †	Survey Respondents‡	National Forest Visits (%)§#
American Indian / Alaska Native	7	0.5
Asian	7	1.2
Black / African American	4	1.2
Hawaiian / Pacific Islander	2	0.4
White	517	97.2
Total	537	100.5

Ethnicity†	Survey Respondents‡	National Forest Visits (%)§
Hispanic / Latino	21	2.7



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

# Respondents could choose more than one racial group, so the total may be more than 100%.

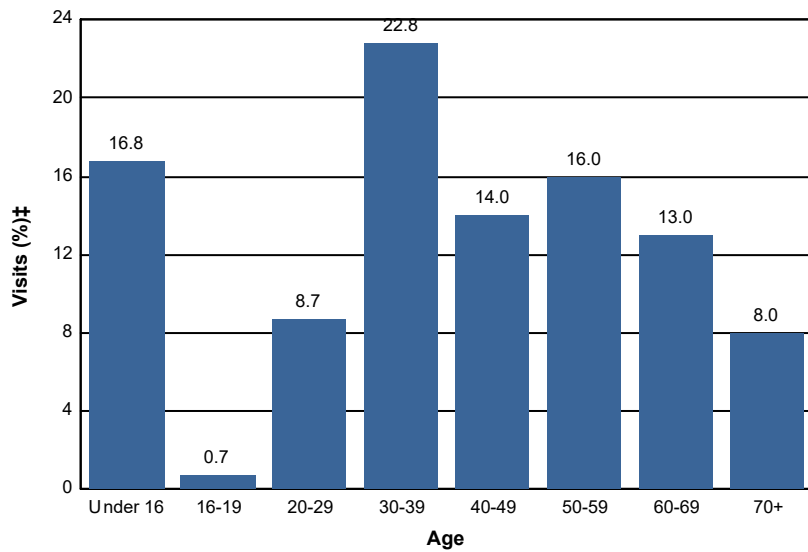
† Race and Ethnicity were asked as two separate questions.

‡ Non-respondents to race/ethnicity questions were excluded from analysis.

§ Calculations are computed using weights that expand the sample of individuals to the population of National Forest Visits.

Table 7. Percent of National Forest Visits\* by Age

Age Class	National Forest Visits (%)‡
Under 16	16.8
16-19	0.7
20-29	8.7
30-39	22.8
40-49	14.0
50-59	16.0
60-69	13.0
70+	8.0
<b>Total</b>	<b>100.0</b>



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† Non-respondents to age questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of National Forest Visits.

**Table 8. Top 15 Most Commonly Reported ZIP Codes, States and Counties of National Forest Survey Respondents**

ZIP Code	State	County	Percent of Respondents	Survey Respondents (n)
81224	Colorado	Gunnison County	27.8	62
81230	Colorado	Gunnison County	12.6	28
81401	Colorado	Montrose County	5.8	13
81521	Colorado	Mesa County	5.8	13
81501	Colorado	Mesa County	5.8	13
81503	Colorado	Mesa County	5.4	12
81507	Colorado	Mesa County	5.4	12
81504	Colorado	Mesa County	4.9	11
81413	Colorado	Delta County	4.5	10
81416	Colorado	Delta County	4.0	9
81432	Colorado	Ouray County	4.0	9
81506	Colorado	Mesa County	4.0	9
81210	Colorado	Gunnison County	3.6	8
Unknown Origin*			3.1	7
81520	Colorado	Mesa County	3.1	7

\* Includes respondents reporting no ZIP code or an invalid ZIP code.

**Table 9. Percent of National Forest Visits\* by Distance Traveled**

Miles from Survey Respondent's Home to Interview Location†	National Forest Visits (%)
0 - 25 miles	18.8
26 - 50 miles	38.0
51 - 75 miles	5.2
76 - 100 miles	5.2
101 - 200 miles	12.5
201 - 500 miles	6.4
Over 500 miles	14.0
Total	100.1

Note: Blank cells indicate that insufficient data were collected to make inferences.

\* National Forest Visits are defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† Travel distance is self-reported.



### 3.2. Visit Descriptions

Characteristics of the recreation visit such as length of visit, types of sites visited, activity participation and visitor satisfaction with forest facilities and services help managers understand recreation use patterns and use of facilities. This allows them to plan workforce and facility needs. The average national forest visit length of stay and average site visit length of stay by site type on this forest is displayed in Table 10. Since the average values displayed in Table 10 may be influenced by a few people staying a very long time, the median value is also shown.

Over half of visits to this forest last at most 4 hours, although the average duration is about 17 hours. The median length of visits to overnight sites is about 5 hours, indicating many are used as day use sites. About 45% of visits come from people who visit at most 10 times per year. Very frequent visitors are not overly common; about 18 percent of visits are made by people who visit more than 50 times per year.

Table 10. Visit Duration

Visit Type	Average Duration (hours)‡	Median Duration (hours)‡
Site Visit	4.4	3.0
Day Use Developed	2.8	3.2
Overnight Use Developed	27.1	4.5
Undeveloped Areas	3.5	2.5
Designated Wilderness	11.0	2.9
National Forest Visit	16.5	3.6

\* A Site Visit is the entry of one person onto a national forest site or area to participate in recreation activities for an unspecified period of time. Sites and areas were divided into four site types as listed here.

† A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

‡ If this variable is blank not enough surveys were collected to make inferences.

Many of the respondents on this National Forest went only to the site at which they were interviewed (Table 11). Some visitors went to more than one recreation site or area during their national forest visit and the average site visits per national forest visit is shown below. Also displayed are the average people per vehicle and average axles per vehicle. This information in conjunction with traffic counts was used to expand observations from individual interviews to the full forest population of recreation visitors. This information may be useful to forest engineers and others who use vehicle counters to conduct traffic studies.

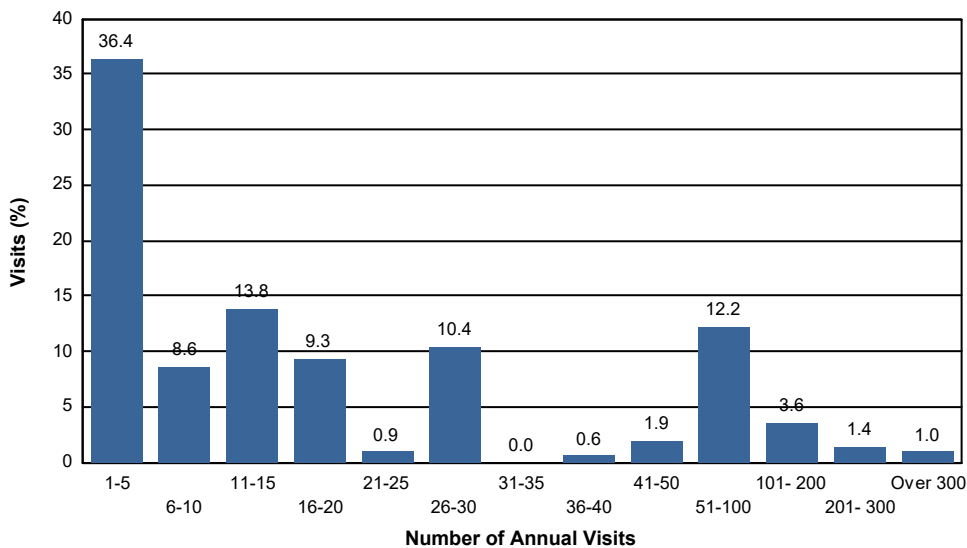
During the interview, visitors were asked how often they visit this national forest for all recreational activities, and how often for their primary activity. Table 12 summarizes the percent of visits that are made by those in each frequency category for this National Forest.

Table 11. Group Characteristics

Characteristic	Average
Percent of visits that were to just one national forest site during the National Forest Visit*	96.0
Number of national forest sites visited on National Forest Visit*	1.1
Group size	2.0
Axles per vehicle	2.1

Table 12. Percent of National Forest Visits\* by Annual Visit Frequency

Number of Annual Visits	Visits (%)†	Cumulative Visits (%)
1 - 5	36.4	36.4
6 - 10	8.6	45.0
11 - 15	13.8	58.8
16 - 20	9.3	68.0
21 - 25	0.9	69.0
26 - 30	10.4	79.4
31 - 35	0.0	79.4
36 - 40	0.6	80.0
41 - 50	1.9	81.9
51 - 100	12.2	94.0
101 - 200	3.6	97.6
201 - 300	1.4	99.0
Over 300	1.0	100.0



\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† The first row indicates the percent of National Forest Visits made by persons who visit 1 to 5 times per year. The last row indicates the percent of National Forest Visits made by persons who visit more than 300 times per year.

### 3.3. Activities

After identifying their main recreational activity, visitors were asked how many hours they spent participating in that main activity during this national forest visit. Some caution is needed when using this information. Because most national forest visitors participate in several recreation activities during each visit, it is more than likely that other visitors also participated in this activity, but did not identify it as their main activity. For example, on one national forest 63 % of visitors identified viewing wildlife as a recreational activity that they participated in during this visit, however only 3% identified that activity as their main recreational activity. The information on average hours viewing wildlife is only for the 3% who reported it as a main activity.

The most frequently reported primary activities are downhill skiing (31%) and hiking/walking (16%).

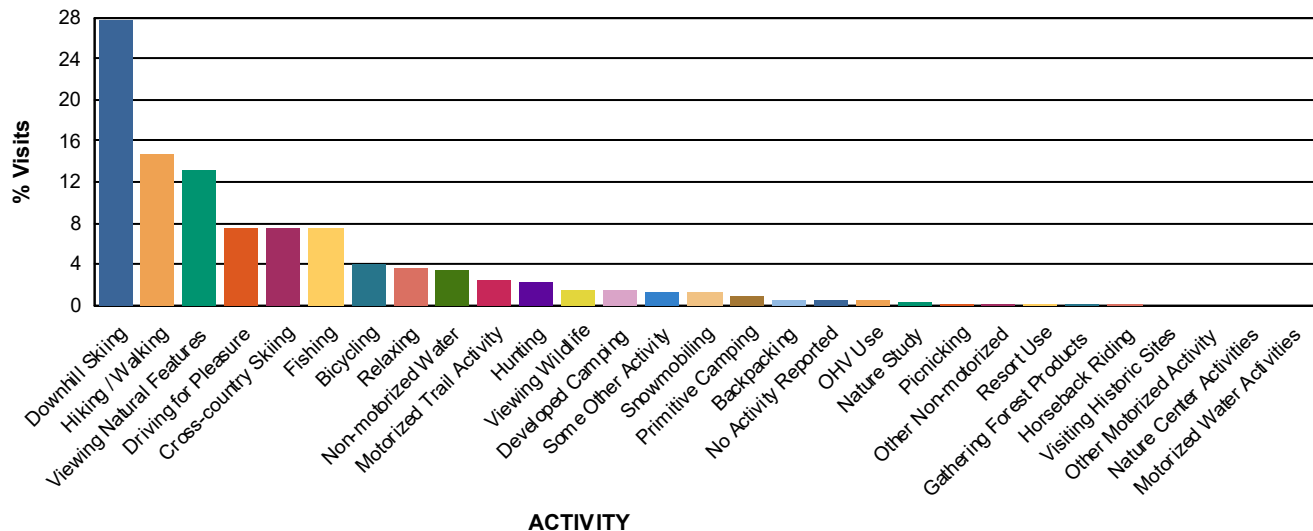
### Use of Constructed Facilities and Designated Areas

About one-third of recreation visitors interviewed were asked about whether they made use of a targeted set of facilities and special designated areas during their visit. These results are displayed in Table 14.

Table 13. Activity Participation

Activity	% Participation*	% Main Activity‡	Avg Hours Doing Main Activity
Viewing Natural Features	52.8	13.2	3.7
Downhill Skiing	35.3	27.8	5.0
Viewing Wildlife	33.0	1.5	3.5
Hiking / Walking	29.9	14.7	3.8
Relaxing	20.7	3.6	12.0
Driving for Pleasure	18.1	7.5	3.4
Cross-country Skiing	15.3	7.5	3.4
Fishing	10.1	7.5	7.1
Developed Camping	6.0	1.5	38.4
Bicycling	5.4	4.1	3.7
Motorized Trail Activity	4.4	2.4	8.6
Picnicking	3.8	0.2	1.0
Nature Study	3.5	0.3	3.4
Hunting	2.9	2.2	27.4
Some Other Activity	2.5	1.3	6.9
OHV Use	2.5	0.4	2.1
Primitive Camping	2.3	0.9	32.3
Nature Center Activities	2.1	0.0	0.0
Backpacking	1.6	0.6	14.8
Visiting Historic Sites	1.5	0.0	0.0
Snowmobiling	1.4	1.2	2.4
Non-motorized Water	1.1	3.4	2.2
Other Non-motorized	1.0	0.1	5.3
Gathering Forest Products	1.0	0.0	4.6
Other Motorized Activity	0.6	0.0	0.0
Resort Use	0.4	0.1	8.0
Horseback Riding	0.3	0.0	7.0
Motorized Water Activities	0.3	0.0	0.0
No Activity Reported	0.1	0.5	

% Main Activity



\* Survey respondents could select multiple activities so this column may total more than 100%.

† Survey respondents were asked to select just one of their activities as their main reason for the forest visit. Some respondents selected more than one, so this column may total more than 100%.

## Special Facility Use

**Table 14. Percent of National Forest Visits\* Indicating Use of Special Facilities or Areas**

Special Facility or Area	% of National Forest Visits†
Developed Swimming Site	2.3
Scenic Byway	32.2
Visitor Center or Museum	4.0
Designated ORV Area	14.3
Forest Roads	26.6
Interpretive Displays	2.3
Information Sites	3.3
Developed Fishing Site	20.0
Motorized Single Track Trails	9.7
Motorized Dual Track Trails	11.2
None of these Facilities	35.3

\* A National Forest Visit is defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

† Survey respondents could select as many or as few special facilities or areas as appropriate.

## 4. ECONOMIC INFORMATION

Forest managers are usually very interested in the impact of National Forest recreation visits on the local economy. As commodity production of timber and other resources has declined, local communities look increasingly to tourism to support their communities. When considering recreation-related visitor spending managers are often interested both in identifying the average spending of individual visitors (or types of visitors) and the total spending associated with all recreation use. Spending averages for visitors or visitor parties can be estimated using data collected from a statistically valid visitor sampling program such as NVUM. To estimate the total spending associated with recreation use, three pieces of information are needed: an overall visitation estimate, the proportion of visits in the visitor types, and the average spending profiles for each of the visitor types. Multiplying the three gives a total amount of spending by a particular type of visitor. Summing over all visitor types gives total spending.

About one-third of the NVUM surveys included questions about trip-related spending within 50 miles of the site visited. Analysis of spending data included identification of the primary visitor segments that have distinct spending profiles as well as estimation of the average spending per party per visit. Results from the FY2005 through FY2009 period are available in a report: <https://www.treesearch.fs.fed.us/pubs/43869>. Results from the FY2010 through FY2014 period are in the publication process.

## 4.1. Spending Segments

The spending that occurs on a recreation trip is greatly influenced by the type of recreation trip taken. For example, visitors on overnight trips away from home typically have to pay for some form of lodging (e.g., hotel/motel rooms, fees in a developed campground, etc.) while those on day trips do not. In addition, visitors on overnight trips will generally have to purchase more food during their trip (in restaurants or grocery stores) than visitors on day trips. Visitors who have not traveled far from home to the recreation location usually spend less than visitors traveling longer distances, especially on items such as fuel and food. Analysis of spending patterns has shown that a good way to construct segments of the visitor market with consistent spending patterns is the following seven groupings:

1. local visitors on day trips,
2. local visitors on overnight trips staying in lodging on the national forest,
3. local visitors on overnight trips staying in lodging off the national forest, and
4. non-local visitors on day trips,
5. non-local visitors on overnight trips staying in lodging on the national forest,
6. non-local visitors on overnight trips staying in lodging off the forest,
7. non-primary visitors.

Local visitors are those who travel less than 50 road miles from home to the recreation site visited and non-local visitors are those who travel greater than 50 road miles to the recreation site visited. Non-primary visitors are those for whom the primary purpose of their trip is something other than recreating on that national forest. The distribution of visits by spending segment is not displayed in this report. See the appendix tables in the spending analysis report cited above for spending segment distributions.

For about two-thirds of visits, the trip to the GMUG is a day trip from home rather than a trip that includes an overnight stay. The income distribution results show a concentration in the upper end: about half of households report income over \$100,000.

Table 15 is no longer displayed here

## 4.2. Spending Profiles

Spending profiles for each segment are contained in the spending analysis report, as are tables that identify whether visitors to a particular forest are in a higher or lower than average range. It is essential to note that the spending profiles are in dollars per party per visit. Obtaining per visit spending is accomplished by dividing the spending for each segment by the average people per party for the forest and spending segment. These data are in the appendix of the report.



### 4.3. Total Direct Spending

Total direct spending made within 50 miles of the forest and associated with national forest recreation is calculated by combining estimates of per party spending averages with the number of party trips in the segment. The number of party-trips in the segment equals the number of National Forest visits reported in table 2, times the percentage of visits in each spending segment, and divided by the average people per party.

### 4.4. Other Visit Information

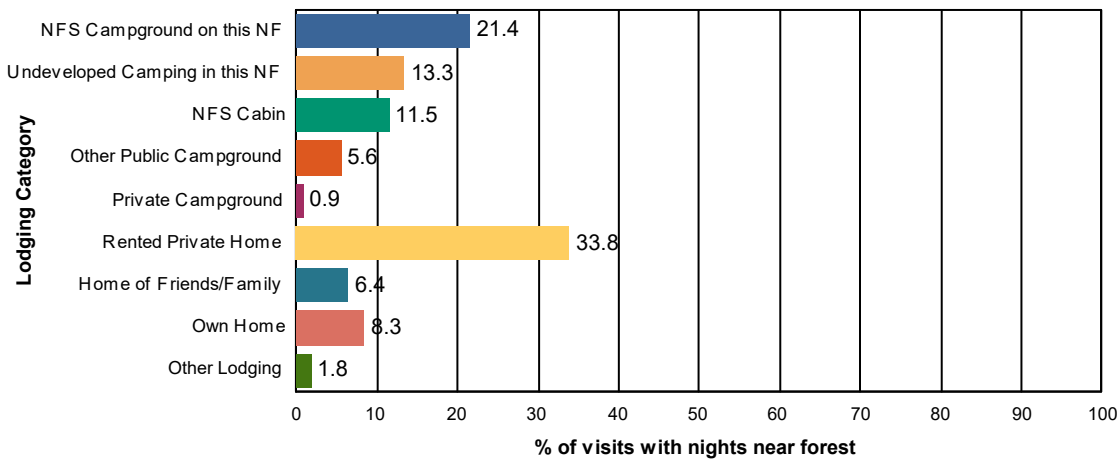
There are several other important aspects of the trips on which the recreation visits to the forest are made. These are summarized in Table 16. The first aspect relates to total amount spent by the recreating party on the trip. This includes spending not just within 50 miles of the forest, but anywhere. The table shows both the average and the median. Another set describes the overall length of the trips on which the visits are made. The table shows the percent of the visits that were made on trips where the person stayed away from home overnight (even though the forest visit may be just a day visit), and the average total nights away from home and nights spent within 50 miles of the forest. For those spending one or more nights in or near the forest, the table shows the percentage that selected each of a series of lodging options. Together, these results help show the context of overall trip length and lodging patterns for visitors to the forest.

Table 16. Trip Spending and Lodging Usage

Trip Spending	Value
Average Total Trip Spending per Party	\$0
Median Total Trip Spending per Party	
% NF Visits made on trip with overnight stay away from home	29.3%
% NF Visits with overnight stay within 50 miles of NF	24.1%
Mean nights/visit within 50 miles of NF	5.3
Area Lodging Use	% Visits with Nights Near Forest
NFS Campground on this NF	21.4%
Undeveloped Camping in this NF	13.3%
NFS Cabin	11.5%
Other Public Campground	5.6%
Private Campground	0.9%
Rented Private Home	33.8%
Home of Friends/Family	6.4%
Own Home	8.3%
Other Lodging	1.8%

**Area Lodging Use**

% Visits with Nights Near Forest



## 4.5. Household Income

Visitors were asked to report a general category for their total household income. Only very general categories were used, to minimize the intrusive nature of the question. Results help indicate the overall socio-economic status of visitors to the forest, and are found in Table 17.

Table 17. Percent of National Forest Visits\* by Annual Household Income

Annual Household Income Category	National Forest Visits (%)
Under \$25,000	4.7
\$25,000 to \$49,999	11.3
\$50,000 to \$74,999	20.0
\$75,000 to \$99,999	12.8
\$100,000 to \$149,999	11.4
\$150,000 and up	39.8
Total	100.0

\* National Forest Visits are defined as the entry of one person upon a national forest to participate in recreation activities for an unspecified period of time. A National Forest Visit can be composed of multiple Site Visits.

## 4.6. Substitute Behavior

Visitors were asked to select one of several substitute choices, if for some reason they were unable to visit this national forest (Figure 3). Choices included going somewhere else for the same activity they did on the current trip, coming back to this forest for the same activity at some later time, going someplace else for a different activity, staying at home and not making a recreation trip, going to work instead of recreating, and a residual 'other' category. On most forests, the majority of visitors indicate that their substitute behavior choice is activity driven (going elsewhere for same activity) and a smaller percentage indicate they would come back later to this national forest for the same activity. For those visitors who said they would have gone somewhere else for recreation they were asked how far from their home this alternate destination was. These results are shown in Figure 4.

Figure 3. Substitute Behavior Choices

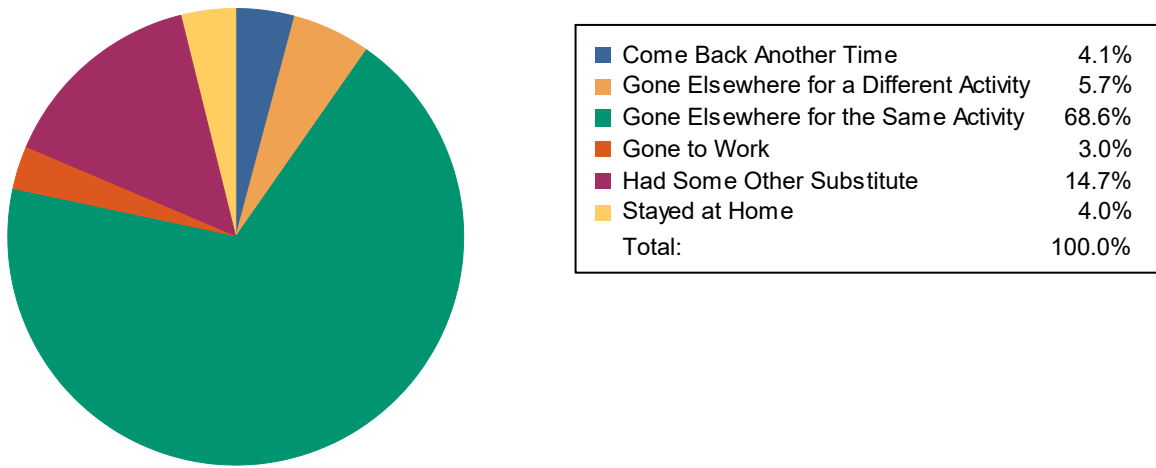


Figure 4. Reported Distance Visitors Would Travel to Alternate Location

## 5. SATISFACTION INFORMATION

An important element of outdoor recreation program delivery is evaluating customer satisfaction with the recreation setting, facilities, and services provided. Satisfaction information helps managers decide where to invest in resources and to allocate resources more efficiently toward improving customer satisfaction. Satisfaction is a core piece of data for national- and forest-level performance measures. To describe customer satisfaction, several different measures are used. Recreation visitors were asked to provide an overall rating of their visit to the national forest, on a 5-point Likert scale. About one-third of visitors interviewed on the forest rated their satisfaction with fourteen elements related to recreation facilities and services, and the importance of those elements to their recreation experience. Visitors were asked to rate the specific site or area at which they were interviewed. Visitors rated both the importance and performance (satisfaction with) of these elements using a 5-point scale. The Likert scale for importance ranged from not important to very important. The Likert scale for performance ranged from very dissatisfied to very satisfied. Although the satisfaction ratings specifically referenced the area where the visitor was interviewed, the survey design does not usually have enough responses for any individual site or area on the forest to present information at a site level. Rather, the information is generalized to overall satisfaction within the three site types: Day Use Developed (DUDS), Overnight Use Developed (OUDS), General Forest Areas, and on the forest as a whole.

The satisfaction responses are analyzed in several ways. First, a graph of overall satisfaction is presented in Figure 5. Next, two aggregate measures were calculated from the set of individual elements. The satisfaction elements most readily controlled by managers were aggregated into four categories: developed facilities, access, services, and visitor safety. The site types sampled were aggregated into three groups: developed sites (includes both day use and overnight developed sites), dispersed areas, and designated Wilderness. The first aggregate measure is called “Percent Satisfied Index (PSI)”, which is the proportion of all ratings for the elements in the category where the satisfaction ratings had a numerical rating of 4 or 5. Conceptually, the PSI indicator shows the percent of all recreation customers who are satisfied with agency performance. The agency’s national target for this measure is 85%. It is usually difficult to consistently have a higher satisfaction score than 85% since given tradeoffs among user groups and other factors. Table 18 displays the aggregate PSI scores for this forest.

Another aggregate measure of satisfaction is called “Percent Meet Expectations (PME)”. This is the proportion of satisfaction ratings in which the numerical satisfaction rating for a particular element is equal to or greater than the importance rating for that element. This indicator tracks the congruence between the agency’s performance and customer evaluations of importance. The idea behind this measure is that those elements with higher importance levels must have higher performance levels. Figure 6 displays the PME scores by type of site. Lower scores indicate a gap between desires and performance.

An Importance-Performance Analysis (IPA) (Hudson, et al, Feb 2004) was calculated for the importance and satisfaction scores. A target level of importance and performance divides the possible set of score pairs into four quadrants. For this work, the target level of both was a numerical score of 4.0. Each quadrant has a title that helps in interpreting responses that fall into it, and that provides some general guidance for management. These can be described as:

1. Importance at or above 4.0, Satisfaction at or above 4.0: **Keep up the good work**. These are items that are important to visitors and ones that the forest is performing quite well;
2. Importance at or above 4.0, Satisfaction under 4.0: **Concentrate here**. These are important items to the public, but performance is not where it needs to be. Increasing effort here is likely to have the greatest payoff in overall customer satisfaction;
3. Importance below 4.0, Satisfaction above 4.0: **Possible overkill**. These are items that are not highly important to visitors, but the forest's performance is quite good. It may be possible to reduce effort here without greatly harming overall satisfaction;
4. Importance below 4.0; Satisfaction below 4.0: **Low Priority**. These are items where performance is not very good, but neither are they important to visitors. Focusing effort here is unlikely to have a great impact.

We present tables that show the I-P rating title for each satisfaction element. Each sitetype is presented in a separate table. Results are presented in Tables 19 - 22.

The numerical scores for visitor satisfaction and importance for each element by site type, and the sample sizes for each are presented in Appendix B (Tables B1 - B4). Most managers find it difficult to discern meaning from these raw tables; however they may wish to examine specific elements once they have reviewed the other satisfaction information presented in this section. Note that if an element had fewer than 10 responses no analyses are performed, as there are too few responses to provide reliable information. Finally, visitors were asked about their overall satisfaction with and the importance of road condition and the adequacy of signage. Figure 7a and Figure 7b show the results.

The overall satisfaction results are very good. Over 80% of people visiting indicated they were very satisfied with their overall recreation experience. Another 13% were somewhat satisfied. The results for the composite indices were also very good. Satisfaction ratings for perception of safety were over 95% for all types of sites. Ratings for the other composites were over 80% for Wilderness and developed types of sites.

Figure 5. Percent of National Forest Visits by Overall Satisfaction Rating

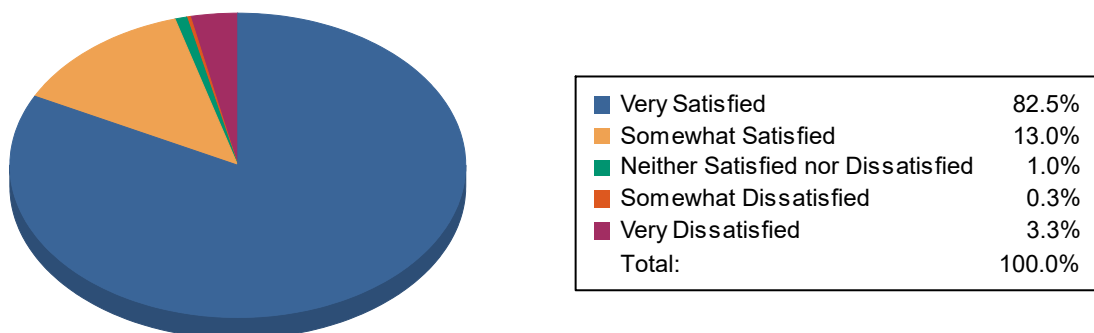


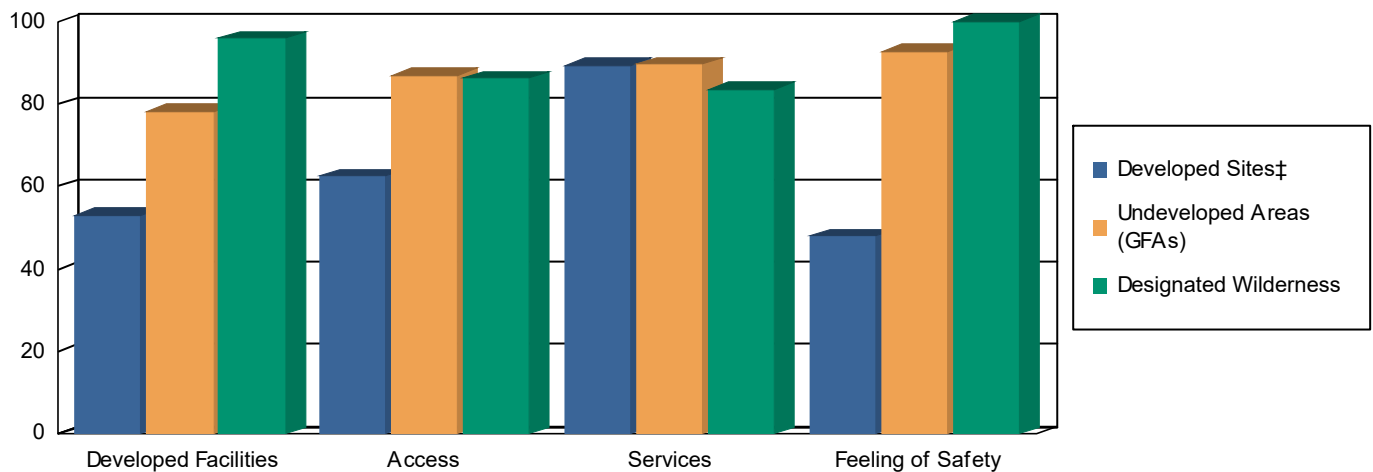
Table 18. Percent Satisfied Index† Scores for Aggregate Categories

Satisfaction Element	Satisfied Survey Respondents (%)		
	Developed Sites‡	Undeveloped Areas (GFAs)	Designated Wilderness
Developed Facilities	85.6	79.4	92.1
Access	83.9	88.7	90.3
Services	93.4	78.1	87.1
Feeling of Safety	99.5	97.8	100.0

† This is a composite rating. It is the proportion of satisfaction ratings scored by visitors as good (4) or very good (5). Computed as the percentage of all ratings for the elements within the sub grouping that are at or above the target level, and indicates the percent of all visitors that are reasonably well satisfied with agency performance.

‡ This category includes both Day Use and Overnight Use Developed Sites.

Figure 6. Percent Meets Expectations Scores\*



\* “Percent Meet Expectations (PME)” is the proportion of satisfaction ratings in which the numerical satisfaction rating for a particular element is equal to or greater than the importance rating for that element. This indicator tracks the congruence between the agency’s performance and customer evaluations of importance. The idea behind this measure is that those elements with higher importance levels must have higher performance levels. Lower scores indicate a gap between desires and performance.

‡ This category includes both Day Use and Overnight Use Developed Sites.

**Table 19. Importance-Performance Ratings for Day Use Developed Sites**

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Keep up the Good Work
Condition of Environment	Keep up the Good Work
Employee Helpfulness	Keep up the Good Work
Interpretive Displays	Possible Overkill
Parking Availability	Possible Overkill
Parking Lot Condition	Possible Overkill
Rec. Info. Availability	Possible Overkill
Road Condition	Keep up the Good Work
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Possible Overkill
Trail Condition	Keep up the Good Work
Value for Fee Paid	*

\* The data was not reported for items with fewer than 10 responses.

**Table 20. Importance-Performance Ratings for Overnight Developed Sites**

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Keep up the Good Work
Condition of Environment	Keep up the Good Work
Employee Helpfulness	*
Interpretive Displays	Low Priority
Parking Availability	Concentrate Here
Parking Lot Condition	Possible Overkill
Rec. Info. Availability	Low Priority
Road Condition	Concentrate Here
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Possible Overkill
Trail Condition	Keep up the Good Work
Value for Fee Paid	*

\* The data was not reported for items with fewer than 10 responses.



**Table 21. Importance-Performance Ratings for Undeveloped Areas (GFAs)**

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Keep up the Good Work
Condition of Environment	Keep up the Good Work
Employee Helpfulness	Keep up the Good Work
Interpretive Displays	Possible Overkill
Parking Availability	Keep up the Good Work
Parking Lot Condition	Possible Overkill
Rec. Info. Availability	Possible Overkill
Road Condition	Keep up the Good Work
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Possible Overkill
Trail Condition	Keep up the Good Work
Value for Fee Paid	*

\* The data was not reported for items with fewer than 10 responses.

**Table 22. Importance-Performance Ratings for Designated Wilderness**

Satisfaction Element	Importance-Performance Rating
Restroom Cleanliness	Keep up the Good Work
Developed Facilities	Possible Overkill
Condition of Environment	Keep up the Good Work
Employee Helpfulness	*
Interpretive Displays	Possible Overkill
Parking Availability	Possible Overkill
Parking Lot Condition	Possible Overkill
Rec. Info. Availability	Possible Overkill
Road Condition	Keep up the Good Work
Feeling of Safety	Keep up the Good Work
Scenery	Keep up the Good Work
Signage Adequacy	Keep up the Good Work
Trail Condition	Keep up the Good Work
Value for Fee Paid	*

\* The data was not reported for items with fewer than 10 responses.

## Road Conditions & Signage

Figure 7a. Satisfaction with Forest-wide Road Conditions & Signage Adequacy

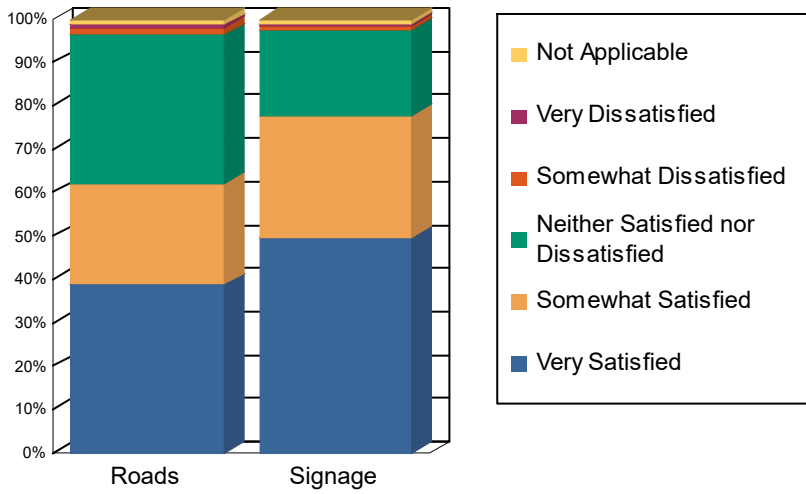
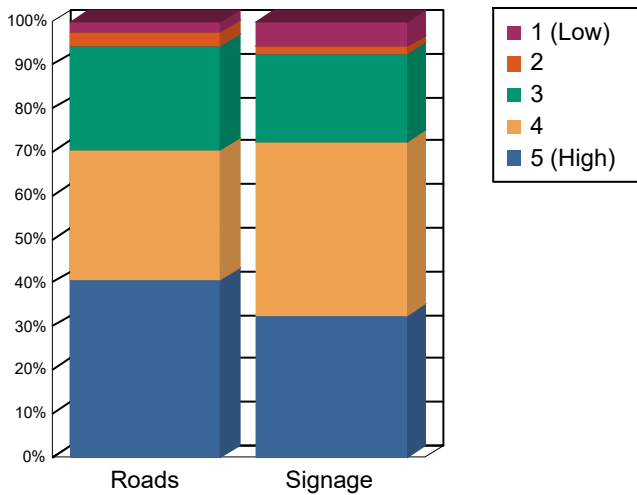


Figure 7b. Importance of Forest-wide Road Conditions & Signage Adequacy



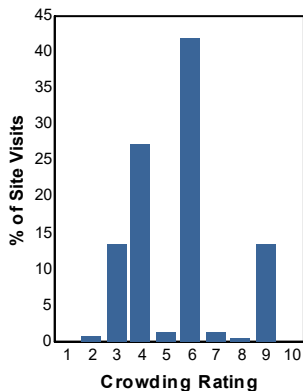
### 5.1. Crowding

Visitors rated their perception of how crowded the recreation site or area felt to them. This information is useful when looking at the type of site the visitor was using since someone visiting a designated Wilderness may think 5 people is too many while someone visiting a developed campground may think 200 people is about right. Table 23 shows the distribution of responses for each site type. Crowding was reported on a scale of 1 to 10 where 1 denotes hardly anyone was there, and a 10 indicates the area was perceived as overcrowded.

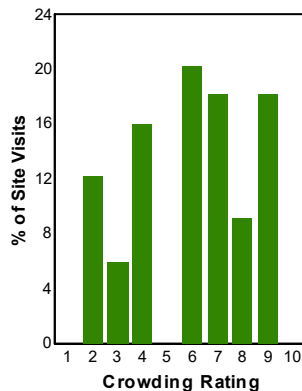
Table 23. Percent of Site Visits\* by Crowding Rating and Site Type

Crowding Rating†	Site Types (% of Site Visits)			
	Day Use Developed Sites	Overnight Use Developed Sites	Undeveloped Areas (GFAs)	Designated Wilderness
10 - Overcrowded	0.0	0.0	2.9	0.0
9	13.4	18.3	1.4	4.7
8	0.6	9.1	2.0	5.1
7	1.4	18.3	5.7	0.7
6	41.8	20.2	10.6	18.8
5	1.4	0.0	11.2	9.8
4	27.3	16.0	16.3	15.2
3	13.4	5.9	26.5	30.4
2	0.8	12.2	23.5	14.9
1 - Hardly anyone there	0.0	0.0	0.0	0.4
<b>Average Rating</b>	<b>5.4</b>	<b>5.9</b>	<b>4.1</b>	<b>4.3</b>

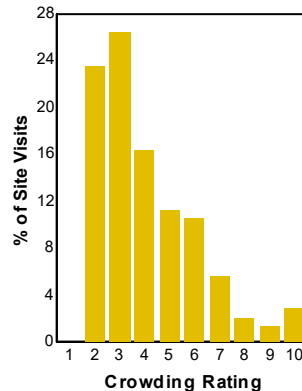
**Day Use Developed Sites**



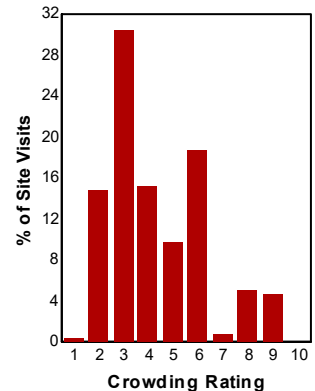
**Overnight Use Developed Sites**



**Undeveloped Areas (GFAs)**



**Designated Wilderness**



\* A Site Visit is the entry of one person onto a national forest site or area to participate in recreation activities for an unspecified period of time.

† Survey respondents rated how crowded the site or area they were interviewed at was using a scale of 1 to 10 where 1 meant hardly anyone was there and 10 meant the site or area was overcrowded.

## 5.2. Disabilities

Providing barrier-free facilities for recreation visitors is an important part of facility and service planning and development. One question asked if anyone in their group had a disability. If so, the visitor was then asked if the facilities at the sites they visited were accessible for this person ( Table 24).

Table 24. Accessibility of National Forest Facilities by Persons with Disabilities

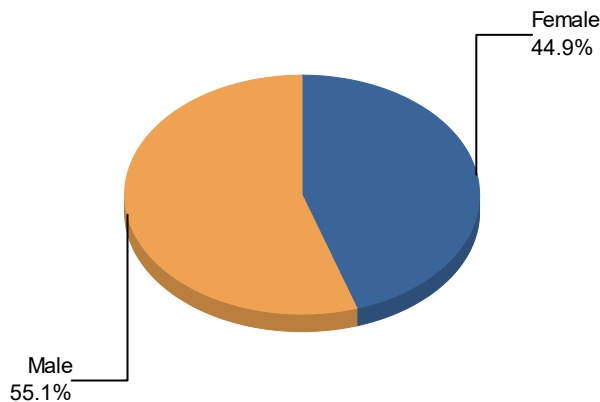
Item	Percent
% of visits that include a group member with a disability	9.7
Of this group, percent who said facilities at site visited were accessible	58.6

## 6. WILDERNESS VISIT DEMOGRAPHICS

Visits to Wilderness are sometimes made by a particular subset of the overall visitor population. In this chapter, tables are presented that describe the demographic characteristics of those who visit designated wilderness on this forest. Table 25 shows the gender breakdown, Table 26 the racial and ethnicity distribution, and the Table 27 age composition. In Table 28, a frequency analysis of Zip Codes obtained from respondents is presented, to give a rough idea of the common origins of Wilderness visitors.

Table 25. Percent of Wilderness Site Visits\* by Gender

Gender	Survey Respondents†	Wilderness Site Visits (%)‡
Female	121	44.9
Male	135	55.1
<b>Total</b>	<b>256</b>	<b>100.0</b>



\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

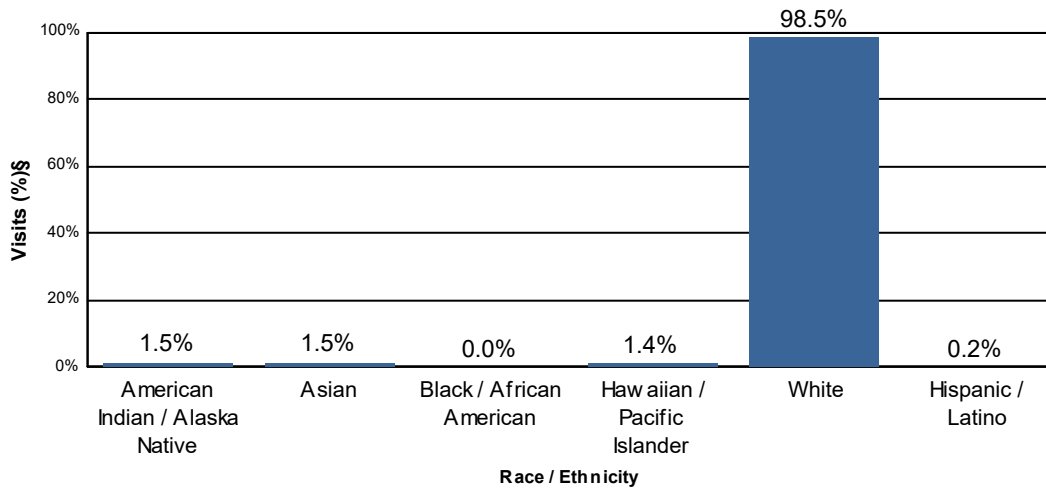
† Non-respondents to gender questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of Wilderness Site Visits.

Table 26. Percent of Wilderness Site Visits\* by Race/Ethnicity

Race †	Survey Respondents‡	Wilderness Site Visits (%)§#
American Indian / Alaska Native	2	1.5
Asian	2	1.5
Black / African American	0	0.0
Hawaiian / Pacific Islander	1	1.4
White	119	98.5
Total	124	102.9

Ethnicity†	Survey Respondents‡	Wilderness Site Visits (%)§
Hispanic / Latino	2	0.2



\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

# Respondents could choose more than one racial group, so the total may be more than 100%.

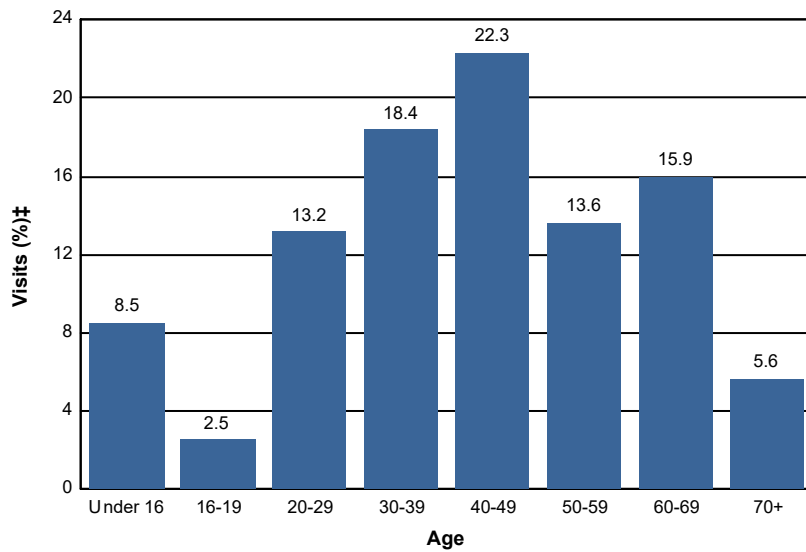
† Race and Ethnicity were asked as two separate questions.

‡ Non-respondents to race/ethnicity questions were excluded from analysis.

§ Calculations are computed using weights that expand the sample of individuals to the population of Wilderness Site Visits.

Table 27. Percent of Wilderness Site Visits\* by Age

Age Class	Wilderness Site Visits (%)‡
Under 16	8.5
16-19	2.5
20-29	13.2
30-39	18.4
40-49	22.3
50-59	13.6
60-69	15.9
70+	5.6
<b>Total</b>	<b>100.0</b>



\* A Site Visit is the entry of one person onto a National Forest site or area to participate in recreation activities for an unspecified period of time.

† Non-respondents to age questions were excluded from analysis.

‡ Calculations are computed using weights that expand the sample of individuals to the population of Wilderness Site Visits.

Table 28. Top 15 Most Commonly Reported ZIP Codes, States and Counties of Wilderness Survey Respondents

ZIP Code	State	County	Percent of Respondents	Survey Respondents (n)
81230	Colorado	Gunnison County	19.0	8
81224	Colorado	Gunnison County	19.0	8
80304	Colorado	Boulder County	9.5	4
81231	Colorado	Gunnison County	7.1	3
81432	Colorado	Ouray County	4.8	2
80027	Colorado	Boulder County	4.8	2
80122	Colorado	Arapahoe County	4.8	2
81601	Colorado	Garfield County	4.8	2
80238	Colorado	Denver County	4.8	2
Foreign Country			4.8	2
81435	Colorado	San Miguel County	4.8	2
80443	Colorado	Summit County	4.8	2
83702	Idaho	Ada County	2.4	1
81502	Colorado	Mesa County	2.4	1
78704	Texas	Travis County	2.4	1

\* Includes respondents reporting no ZIP code or an invalid ZIP code .



## 7. APPENDIX TABLES

## APPENDIX A - Complete List of ZIP Codes

Table A-1. ZIP Codes, States and Counties of National Forest Survey Respondents

ZIP Code	State	County	Percent of Respondents	Survey Respondents (n)
81224	Colorado	Gunnison County	9.8	62
81230	Colorado	Gunnison County	4.4	28
81401	Colorado	Montrose County	2.1	13
81521	Colorado	Mesa County	2.1	13
81501	Colorado	Mesa County	2.1	13
81503	Colorado	Mesa County	1.9	12
81507	Colorado	Mesa County	1.9	12
81504	Colorado	Mesa County	1.7	11
81413	Colorado	Delta County	1.6	10
81416	Colorado	Delta County	1.4	9
81432	Colorado	Ouray County	1.4	9
81506	Colorado	Mesa County	1.4	9
81210	Colorado	Gunnison County	1.3	8
Unknown Origin*			1.1	7
81520	Colorado	Mesa County	1.1	7
81201	Colorado	Chaffee County	1.1	7
81403	Colorado	Montrose County	0.9	6
81505	Colorado	Mesa County	0.8	5
Foreign Country			0.8	5
81502	Colorado	Mesa County	0.6	4
81423	Colorado	San Miguel County	0.6	4
81435	Colorado	San Miguel County	0.6	4
81526	Colorado	Mesa County	0.6	4
80304	Colorado	Boulder County	0.6	4
81410	Colorado	Delta County	0.6	4
81624	Colorado	Mesa County	0.6	4
81643	Colorado	Mesa County	0.6	4
81601	Colorado	Garfield County	0.6	4
81623	Colorado	Garfield County	0.6	4
81231	Colorado	Gunnison County	0.6	4
80301	Colorado	Boulder County	0.5	3
80920	Colorado	El Paso County	0.5	3
80214	Colorado	Jefferson County	0.5	3
81236	Colorado	Chaffee County	0.5	3
81252	Colorado	Custer County	0.5	3
81212	Colorado	Fremont County	0.5	3
81242	Colorado	Chaffee County	0.5	3
80401	Colorado	Jefferson County	0.5	3
80919	Colorado	El Paso County	0.5	3
81419	Colorado	Delta County	0.5	3

80020	Colorado	Broomfield County	0.5	3
81225	Colorado	Gunnison County	0.5	3
80302	Colorado	Boulder County	0.5	3
81211	Colorado	Chaffee County	0.5	3
80122	Colorado	Arapahoe County	0.5	3
80123	Colorado	Jefferson County	0.5	3
78751	Texas	Travis County	0.3	2
80918	Colorado	El Paso County	0.3	2
80504	Colorado	Weld County	0.3	2
87107	New Mexico	Bernalillo County	0.3	2
80226	Colorado	Jefferson County	0.3	2
80601	Colorado	Adams County	0.3	2
81220	Colorado	Montrose County	0.3	2
76424	Texas	Stephens County	0.3	2
80443	Colorado	Summit County	0.3	2
81004	Colorado	Pueblo County	0.3	2
80238	Colorado	Denver County	0.3	2
80127	Colorado	Jefferson County	0.3	2
80446	Colorado	Grand County	0.3	2
81147	Colorado	Archuleta County	0.3	2
80906	Colorado	El Paso County	0.3	2
80108	Colorado	Douglas County	0.3	2
80814	Colorado	Teller County	0.3	2
81527	Colorado	Mesa County	0.3	2
80211	Colorado	Denver County	0.3	2
80503	Colorado	Boulder County	0.3	2
80221	Colorado	Adams County	0.3	2
80033	Colorado	Jefferson County	0.3	2
80203	Colorado	Denver County	0.3	2
80027	Colorado	Boulder County	0.3	2
80234	Colorado	Adams County	0.3	2
80916	Colorado	El Paso County	0.3	2
80829	Colorado	El Paso County	0.3	2
80521	Colorado	Larimer County	0.3	2
30022	Georgia	Fulton County	0.3	2
80528	Colorado	Larimer County	0.3	2
80212	Colorado	Denver County	0.3	2
83702	Idaho	Ada County	0.2	1
78704	Texas	Travis County	0.2	1
81321	Colorado	Montezuma County	0.2	1
73034	Oklahoma	Oklahoma County	0.2	1
67107	Kansas	McPherson County	0.2	1
86504	Arizona	Apache County	0.2	1
80134	Colorado	Douglas County	0.2	1
49285	Michigan	Ingham County	0.2	1
60647	Illinois	Cook County	0.2	1
77002	Texas	Harris County	0.2	1
67835	Kansas	Gray County	0.2	1
81301	Colorado	La Plata County	0.2	1
80222	Colorado	Denver County	0.2	1
81657	Colorado	Eagle County	0.2	1

75034	Texas	Collin County	0.2	1
78748	Texas	Travis County	0.2	1
50247	Iowa	Marshall County	0.2	1
78209	Texas	Bexar County	0.2	1
84062	Utah	Utah County	0.2	1
80120	Colorado	Arapahoe County	0.2	1
78216	Texas	Bexar County	0.2	1
68848	Nebraska	Buffalo County	0.2	1
80232	Colorado	Jefferson County	0.2	1
81243	Colorado	Gunnison County	0.2	1
81428	Colorado	Delta County	0.2	1
89704	Nevada	Washoe County	0.2	1
81235	Colorado	Hinsdale County	0.2	1
78218	Texas	Bexar County	0.2	1
80910	Colorado	El Paso County	0.2	1
57104	South Dakota	Minnehaha County	0.2	1
80236	Colorado	Denver County	0.2	1
80205	Colorado	Denver County	0.2	1
80915	Colorado	El Paso County	0.2	1
75029	Texas	Denton County	0.2	1
80102	Colorado	Adams County	0.2	1
80911	Colorado	El Paso County	0.2	1
27310	North Carolina	Guilford County	0.2	1
40051	Kentucky	Nelson County	0.2	1
80652	Colorado	Weld County	0.2	1
59701	Montana	Silver Bow County	0.2	1
78721	Texas	Travis County	0.2	1
81430	Colorado	San Miguel County	0.2	1
80440	Colorado	Park County	0.2	1
33486	Florida	Palm Beach County	0.2	1
87111	New Mexico	Bernalillo County	0.2	1
68736	Nebraska	Cedar County	0.2	1
75969	Texas	Angelina County	0.2	1
92243	California	Imperial County	0.2	1
80207	Colorado	Denver County	0.2	1
81335	Colorado	Montezuma County	0.2	1
16828	Pennsylvania	Centre County	0.2	1
84105	Utah	Salt Lake County	0.2	1
81418	Colorado	Delta County	0.2	1
81131	Colorado	Saguache County	0.2	1
80005	Colorado	Jefferson County	0.2	1
41031	Kentucky	Harrison County	0.2	1
77401	Texas	Harris County	0.2	1
75771	Texas	Smith County	0.2	1
81523	Colorado	Mesa County	0.2	1
61421	Illinois	Stark County	0.2	1
23185	Virginia	James City County	0.2	1
80433	Colorado	Jefferson County	0.2	1
81022	Colorado	Pueblo County	0.2	1
80228	Colorado	Jefferson County	0.2	1
80116	Colorado	Douglas County	0.2	1

68352	Nebraska	Jefferson County	0.2	1
85755	Arizona	Pima County	0.2	1
90255	California	Los Angeles County	0.2	1
81424	Colorado	Montrose County	0.2	1
81631	Colorado	Eagle County	0.2	1
80107	Colorado	Elbert County	0.2	1
28139	North Carolina	Rutherford County	0.2	1
81630	Colorado	Mesa County	0.2	1
72927	Arkansas	Logan County	0.2	1
94703	California	Alameda County	0.2	1
81641	Colorado	Rio Blanco County	0.2	1
07011	New Jersey	Passaic County	0.2	1
43528	Ohio	Lucas County	0.2	1
85259	Arizona	Maricopa County	0.2	1
80132	Colorado	El Paso County	0.2	1
15012	Pennsylvania	Fayette County	0.2	1
80013	Colorado	Arapahoe County	0.2	1
81067	Colorado	Otero County	0.2	1
89301	Nevada	White Pine County	0.2	1
95677	California	Placer County	0.2	1
76248	Texas	Tarrant County	0.2	1
80117	Colorado	Elbert County	0.2	1
85031	Arizona	Maricopa County	0.2	1
63025	Missouri	St. Louis County	0.2	1
54935	Wisconsin	Fond du Lac County	0.2	1
80917	Colorado	El Paso County	0.2	1
81006	Colorado	Pueblo County	0.2	1
66208	Kansas	Johnson County	0.2	1
42027	Kentucky	Graves County	0.2	1
67010	Kansas	Butler County	0.2	1
80012	Colorado	Arapahoe County	0.2	1
57702	South Dakota	Pennington County	0.2	1
60178	Illinois	DeKalb County	0.2	1
78643	Texas	Llano County	0.2	1
63368	Missouri	St. Charles County	0.2	1
80204	Colorado	Denver County	0.2	1
80303	Colorado	Boulder County	0.2	1
80424	Colorado	Summit County	0.2	1
69301	Nebraska	Box Butte County	0.2	1
80023	Colorado	Arapahoe County	0.2	1
49015	Michigan	Calhoun County	0.2	1
67880	Kansas	Grant County	0.2	1
70810	Louisiana	East Baton Rouge Parish	0.2	1
35222	Alabama	Jefferson County	0.2	1
81646	Colorado	Mesa County	0.2	1
80011	Colorado	Adams County	0.2	1
67067	Kansas	Sedgwick County	0.2	1
80427	Colorado	Gilpin County	0.2	1
63851	Missouri	Pemiscot County	0.2	1
74055	Oklahoma	Tulsa County	0.2	1
30075	Georgia	Fulton County	0.2	1

71701	Arkansas	Ouachita County	0.2	1
77705	Texas	Jefferson County	0.2	1
87301	New Mexico	McKinley County	0.2	1
80104	Colorado	Douglas County	0.2	1
87109	New Mexico	Bernalillo County	0.2	1
78666	Texas	Hays County	0.2	1
63141	Missouri	St. Louis County	0.2	1
30004	Georgia	Fulton County	0.2	1
80465	Colorado	Jefferson County	0.2	1
81635	Colorado	Garfield County	0.2	1
81425	Colorado	Montrose County	0.2	1
77007	Texas	Harris County	0.2	1
76087	Texas	Parker County	0.2	1
34119	Florida	Collier County	0.2	1
80439	Colorado	Jefferson County	0.2	1
73139	Oklahoma	Cleveland County	0.2	1
87106	New Mexico	Bernalillo County	0.2	1
81524	Colorado	Mesa County	0.2	1
81632	Colorado	Eagle County	0.2	1
80126	Colorado	Douglas County	0.2	1
28806	North Carolina	Buncombe County	0.2	1
78631	Texas	Gillespie County	0.2	1
81610	Colorado	Moffat County	0.2	1
80526	Colorado	Larimer County	0.2	1
80832	Colorado	El Paso County	0.2	1
80863	Colorado	Teller County	0.2	1
22015	Virginia	Fairfax County	0.2	1
97086	Oregon	Clackamas County	0.2	1
79714	Texas	Andrews County	0.2	1
81621	Colorado	Eagle County	0.2	1
74136	Oklahoma	Tulsa County	0.2	1
26164	West Virginia	Jackson County	0.2	1
52205	Iowa	Jones County	0.2	1
61523	Illinois	Peoria County	0.2	1
48150	Michigan	Wayne County	0.2	1
38587	Tennessee	White County	0.2	1
60532	Illinois	DuPage County	0.2	1
65049	Missouri	Camden County	0.2	1
94109	California	San Francisco County	0.2	1
80533	Colorado	Boulder County	0.2	1
80112	Colorado	Arapahoe County	0.2	1
73072	Oklahoma	Cleveland County	0.2	1
81636	Colorado	Garfield County	0.2	1
85603	Arizona	Cochise County	0.2	1
85383	Arizona	Maricopa County	0.2	1
36310	Alabama	Henry County	0.2	1
44615	Ohio	Carroll County	0.2	1
80925	Colorado	El Paso County	0.2	1
72641	Arkansas	Newton County	0.2	1
14105	New York	Niagara County	0.2	1
54655	Wisconsin	Crawford County	0.2	1

75025	Texas	Collin County	0.2	1
80553	Colorado	Larimer County	0.2	1
80902	Colorado	El Paso County	0.2	1
75080	Texas	Dallas County	0.2	1
80026	Colorado	Boulder County	0.2	1
33134	Florida	Miami-Dade County	0.2	1
49424	Michigan	Ottawa County	0.2	1
78259	Texas	Bexar County	0.2	1
81039	Colorado	Otero County	0.2	1
72762	Arkansas	Washington County	0.2	1
80403	Colorado	Jefferson County	0.2	1
81615	Colorado	Pitkin County	0.2	1
78201	Texas	Bexar County	0.2	1
32254	Florida	Duval County	0.2	1
80034	Colorado	Jefferson County	0.2	1
34482	Florida	Marion County	0.2	1
85318	Arizona	Maricopa County	0.2	1
67037	Kansas	Sedgwick County	0.2	1
80224	Colorado	Denver County	0.2	1
16803	Pennsylvania	Centre County	0.2	1
01077	Massachusetts	Hampden County	0.2	1
64804	Missouri	Jasper County	0.2	1
80206	Colorado	Denver County	0.2	1
85203	Arizona	Maricopa County	0.2	1
80305	Colorado	Boulder County	0.2	1
85253	Arizona	Maricopa County	0.2	1
46845	Indiana	Allen County	0.2	1
27403	North Carolina	Guilford County	0.2	1
76205	Texas	Denton County	0.2	1
80640	Colorado	Adams County	0.2	1
80217	Colorado	Denver County	0.2	1
80210	Colorado	Denver County	0.2	1
80525	Colorado	Larimer County	0.2	1
32411	Florida	Bay County	0.2	1
78526	Texas	Cameron County	0.2	1
26554	West Virginia	Marion County	0.2	1
80905	Colorado	El Paso County	0.2	1
84070	Utah	Salt Lake County	0.2	1
35406	Alabama	Tuscaloosa County	0.2	1
85367	Arizona	Yuma County	0.2	1
95318	California	Mariposa County	0.2	1
80227	Colorado	Jefferson County	0.2	1
74014	Oklahoma	Wagoner County	0.2	1
81650	Colorado	Garfield County	0.2	1
80218	Colorado	Denver County	0.2	1
80470	Colorado	Jefferson County	0.2	1
94707	California	Alameda County	0.2	1
84535	Utah	San Juan County	0.2	1
40391	Kentucky	Clark County	0.2	1
37920	Tennessee	Knox County	0.2	1
32080	Florida	St. Johns County	0.2	1

97439	Oregon	Lane County	0.2	1
20878	Maryland	Montgomery County	0.2	1
80223	Colorado	Denver County	0.2	1
97754	Oregon	Crook County	0.2	1
50138	Iowa	Marion County	0.2	1
02451	Massachusetts	Middlesex County	0.2	1
80004	Colorado	Jefferson County	0.2	1
80907	Colorado	El Paso County	0.2	1
02067	Massachusetts	Norfolk County	0.2	1
52722	Iowa	Scott County	0.2	1
78703	Texas	Travis County	0.2	1
80125	Colorado	Douglas County	0.2	1
81611	Colorado	Pitkin County	0.2	1
80501	Colorado	Boulder County	0.2	1

\* Includes respondents reporting no ZIP code or an invalid ZIP code .



## APPENDIX B - Detailed Satisfaction Results

Table B-1. Satisfaction for Visits to Day Use Developed Sites

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	0.0	0.3	14.5	41.4	43.9	4.3	4.1	31
Developed Facilities	0.0	0.3	14.1	56.0	29.6	4.1	4.7	32
Condition of Environment	0.0	0.3	14.3	41.1	44.4	4.3	5.0	36
Employee Helpfulness	0.0	0.0	0.3	14.2	85.5	4.9	4.9	17
Interpretive Displays	0.5	1.0	24.4	27.3	46.9	4.2	3.1	25
Parking Availability	0.0	0.0	13.5	40.9	45.6	4.3	3.7	35
Parking Lot Condition	0.0	0.0	13.5	54.2	32.3	4.2	3.3	34
Rec. Info. Availability	0.0	0.3	3.1	55.7	41.0	4.4	3.0	32
Road Condition	0.0	0.0	16.1	33.6	50.3	4.3	4.7	34
Feeling of Safety	0.0	0.0	0.3	26.8	72.9	4.7	4.7	36
Scenery	0.0	0.0	0.0	14.0	86.0	4.9	4.9	36
Signage Adequacy	0.0	0.0	1.7	56.3	42.0	4.4	3.3	35
Trail Condition	0.0	0.0	23.4	27.3	49.2	4.3	4.4	21
Value for Fee Paid	0.0	0.0	14.0	14.6	71.4	4.6		14

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

Table B-2. Satisfaction for Visits to Overnight Developed Sites

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	0.0	4.5	9.5	32.4	53.5	4.4	4.1	16
Developed Facilities	0.0	0.0	4.6	27.4	68.1	4.6	4.2	16
Condition of Environment	0.0	9.1	9.1	18.9	62.9	4.4	4.9	20
Employee Helpfulness								3
Interpretive Displays	0.0	0.0	26.5	69.6	3.9	3.8	3.7	12
Parking Availability	0.0	16.9	20.8	28.0	34.4	3.8	4.1	20
Parking Lot Condition	0.0	17.0	11.7	19.0	52.4	4.1	3.1	19
Rec. Info. Availability	0.0	0.0	44.9	18.9	36.3	3.9	3.5	20
Road Condition	0.0	19.3	0.0	72.2	8.5	3.7	4.5	15
Feeling of Safety	0.0	0.0	4.4	7.8	87.8	4.8	4.3	20
Scenery	0.0	0.0	2.0	22.1	75.9	4.7	4.7	20
Signage Adequacy	0.6	0.5	24.1	30.5	44.3	4.2	3.8	20
Trail Condition	0.0	0.0	0.7	45.6	53.8	4.5	4.3	16
Value for Fee Paid								9

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

Table B-3. Satisfaction for Visits to Undeveloped Areas (GFAs)

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	2.4	17.7	7.2	19.8	52.9	4.0	4.5	27
Developed Facilities	0.0	8.7	6.2	22.8	62.3	4.4	4.2	33
Condition of Environment	1.5	0.0	3.4	17.4	77.7	4.7	4.9	85
Employee Helpfulness	0.0	0.0	0.0	10.0	90.0	4.9	4.2	11
Interpretive Displays	0.0	7.4	12.0	35.2	45.4	4.2	3.5	44
Parking Availability	1.6	1.6	7.4	25.2	64.1	4.5	4.0	75
Parking Lot Condition	0.0	3.8	11.2	25.3	59.7	4.4	3.7	65
Rec. Info. Availability	1.8	6.9	19.2	34.7	37.4	4.0	3.7	70
Road Condition	1.6	3.1	8.4	27.1	59.8	4.4	4.4	80
Feeling of Safety	0.0	0.0	2.2	11.1	86.7	4.8	4.6	82
Scenery	0.0	0.0	1.5	5.7	92.8	4.9	4.7	85
Signage Adequacy	1.6	2.4	17.0	24.4	54.6	4.3	3.9	75
Trail Condition	0.0	4.0	2.0	19.5	74.5	4.6	4.5	63
Value for Fee Paid							4.4	7

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

Table B-4. Satisfaction for Visits to Designated Wilderness\*

Satisfaction Element	Percent Rating Satisfaction as:					Mean Rating§	Mean Importance†	No. Obs‡
	Very Dissatisfied	Somewhat Dissatisfied	Neither Satisfied nor Dissatisfied	Somewhat Satisfied	Very Satisfied			
Restroom Cleanliness	0.0	0.0	8.5	21.1	70.3	4.6	4.0	20
Developed Facilities	0.0	0.0	7.4	16.6	76.0	4.7	3.9	19
Condition of Environment	0.0	5.1	5.1	26.1	63.7	4.5	4.9	36
Employee Helpfulness								6
Interpretive Displays	0.0	0.0	5.5	36.4	58.1	4.5	3.9	30
Parking Availability	0.0	0.0	5.4	0.4	94.2	4.9	3.7	36
Parking Lot Condition	0.0	0.0	9.4	9.8	80.8	4.7	2.9	36
Rec. Info. Availability	0.0	0.0	16.4	37.2	46.4	4.3	3.9	33
Road Condition	0.0	0.0	18.9	25.5	55.7	4.4	4.3	35
Feeling of Safety	0.0	0.0	0.0	0.4	99.6	5.0	4.6	36
Scenery	0.0	0.0	0.0	0.7	99.3	5.0	4.9	36
Signage Adequacy	0.0	0.0	14.5	20.3	65.2	4.5	4.5	36
Trail Condition	0.0	0.0	4.9	21.7	73.4	4.7	4.7	35
Value for Fee Paid								4

NOTE: The data was not reported for items with fewer than 10 responses. Satisfaction and Importance were asked as two separate questions so one of these may have 10 responses even though the other does not.

§ Scale: Very Dissatisfied = 1, Somewhat Dissatisfied = 2, Neither Satisfied nor Dissatisfied = 3, Somewhat Satisfied = 4, Very Satisfied = 5

† Scale: Not Important = 1, Somewhat Important = 2, Moderately Important = 3, Important = 4, Very Important = 5

‡ No. Obs is the number of survey respondents who responded to this item.

\* Data supplied is for all Designated Wilderness on the forest combined. Data was not collected for satisfaction for each individual Wilderness on the forest.