

National Park Service U.S. Department of the Interior

The Visitor Services Project



PICTURED ROCKS NATIONAL LAKESHORE Visitor Study

SUMMER 2001

Report 128

Cooperative Park Studies Unit





National Park Service U.S. Department of the Interior

The Visitor Services Project

Pictured Rocks National Lakeshore

Visitor Study Summer 2001

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Visitor Services Project Report 128

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Todd Simmons is a VSP Research Aide based at the Cooperative Park Studies Unit, University of Idaho. I thank Dr. James Gramann, Ginni Dilworth, and Shawn Murphy for their assistance with this study. The VSP acknowledges the Public Opinion Lab of the Social and Economic Sciences Research Center, Washington State University, for its technical assistance.

Visitor Services Project Pictured Rocks National Lakeshore Report Summary

- This report describes the results of a visitor study at Pictured Rocks National Lakeshore during July 29-August 4, 2001. A total of 616 questionnaires were distributed to visitors. Visitors returned 505 questionnaires for a 82.0% response rate.
- This report profiles Pictured Rocks NL visitors. A separate appendix contains visitors' comments about their visit. This report and the appendix include summaries of those comments.
- Thirty-six percent of visitor groups were groups of two; thirty-six were in groups of three to five. Sixty-seven percent of visitor groups were family groups. Forty-six percent of visitors were aged 31-55; 26% were aged 15 years or younger.
- Eighty-five percent of visitor groups had visited only once in the past 12 months. Over one-half (54%) of visitor groups had visited one to four times in the past two to five years.
- Three percent of all visitors were international: 41% from Germany, 22% from Canada, 9% from France and 7 other countries. United States visitors were from Michigan (60%), Illinois (8%), Wisconsin (8%), and 35 other states.
- Forty-seven percent of visitors spent less than 24 hours at the park. Twenty-eight percent of visitor groups spent one or two days, and 11% spent three days at the park.
- Previous visits (51%), friends and relatives (47%), and travel guides/ tour books (41%) were the most used sources of information by visitor groups prior to visiting on this trip. Travel guides/ tour books (40%), personal experience (32%), and the Michigan Travel Center (29%) were the most used sources of information by visitor groups during this visit.
- Sixty-one percent of visitor groups visited Pictured Rocks NL as one of several destinations, 30% as their primary destination, and 9% had not planned on visiting.
- The Miner's Area (59%), Munising Falls (47%), and the Visitor Information Center (42%) were the most visited sites by visitor groups. The least visited site was the Grand Marais Maritime Museum (12%).
- The most common activities of visitor groups were sightseeing (78%), beach activities (67%), day hiking (66%) and enjoying solitude/ quiet (65%).
- In regard to the use, importance and quality of visitor services and facilities, it is important to note the number of visitor groups that responded to each question. The services that were most used by 432 respondents were the park brochure/ map (74%) and the information desk service (57%). According to visitors, the most important services were park brochure/ map (86% of 380 respondents) and the information desk service (81% of 239 respondents). The highest quality services were park personnel (91% of 133 respondents) and information desk service (89% of 223 respondents).
- Seventy percent of visitor groups said that wildlife added to their park experience. Twenty-three percent of visitor groups said that personal watercraft detracted from their park experience.
- The average visitor group expenditure was \$294. The average per capita expenditure was \$87. The median visitor group expenditure (50% of group spent more, 50% spent less) was \$170. Forty-three percent of visitor groups spent between \$1 and \$150 and 27% spent \$351 or more in total expenditures in Pictured Rocks NL and within 60 miles of the park. Of the total expenditures by groups, 30% was for lodging and 17% was for restaurants and bars.
- Most visitor groups (95%) rated the overall quality of visitor services at Pictured Rocks NL as "very good" or "good." No visitor groups rated the overall quality of visitor services as "very poor."

For more information about the Visitor Services Project, please contact the University of Idaho Cooperative Park Studies Unit; phone (208) 885-7129 or 885-7863.

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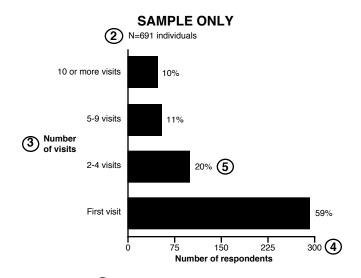
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INTRODUCTION

This report describes the results of a study of visitors at Pictured Rocks National Lakeshore (NL). This visitor study was conducted July 29-August 4, 2001 by the National Park Service (NPS) Visitor Services Project (VSP), part of the Cooperative Park Studies Unit at the University of Idaho.

The report is divided into four sections. The *Methods* section discusses the procedures and limitations of the study. The *Results* section provides summary information for each question in the questionnaire and includes a summary of visitor comments. An *Additional Analysis* section is included which will help managers request additional analyses. The final section includes a copy of the *Questionnaire*. A separate appendix includes comment summaries and visitors' unedited comments.

Most of this report's graphs resemble the example below. The large numbers refer to explanations following the graph.



1 Figure 4: Number of visits

- 1: The figure title describes the graph's information.
- 2: Listed above the graph, the 'N' shows the number of visitors responding and a description of the chart's information. Interpret data with an 'N' of less than 30 with **CAUTION!** as the results may be unreliable.
- 3: Vertical information describes categories.
- 4: Horizontal information shows the number or proportions in each category.
- 5: In most graphs, percentages provide additional information.

METHODS

Questionnaire design and administration

The questionnaire for this visitor study was designed using a standard format that has been developed in previous Visitor Services Project studies. A copy of the questionnaire is included at the end of this report.

Interviews were conducted with, and questionnaires were distributed to, a sample of visitors who arrived at Pictured Rocks NL during the period from July 29-August 4, 2001. Visitors were sampled at nine locations (see Table 1). At the locations with numerous sites to sample (Little Beaver area, Miner's Castle area, Sand Point area, etc.) the intended distribution was amended to reflect actual visitation patterns.

| Table 1: Questionnaire distribution locations | | |
|---|----------------------------|---------|
| Location: | Questionnaires distributed | |
| Grand Sable Visitor Center | Number 110 | % 18 |
| Miners Castle/Falls/Beach | 109 | 18 |
| Munising Falls | 100 | 16 |
| Sand Point area | 100 | 16 |
| Sable Falls | 50 | 8 |
| Hurricane River/ Twelvemile campgrounds | 50 | 8 |
| Chapel Area | 38 | 6 |
| Little Beaver area | 34 | 6 |
| Log Slide | 25 | 4 |
| GRAND TOTAL | 616 | 100 |

Visitor groups were greeted, briefly introduced to the purpose of the study, and asked to participate. If visitors agreed, an interview, lasting approximately two minutes was used to determine group size, group type, and the age of the adult who would complete the questionnaire. These individuals were then given a questionnaire and asked their names, addresses and telephone numbers in order to mail them a reminder/thank you postcard. Visitor groups were asked to complete the questionnaire during or after their visit and then return it by mail.

Two weeks following the survey, a reminder-thank you postcard was mailed to all participants. Replacement questionnaires were mailed to participants who had not returned their questionnaires four weeks after the survey. Seven weeks after the survey, second replacement questionnaires were mailed to visitors who still had not returned their questionnaires.

Questionnaire design and administration (continued)

Returned questionnaires were coded and the information was entered into a computer using a standard statistical software package—Statistical Analysis System (SAS). Frequency distributions and cross-tabulations were calculated for the coded data, and responses to open-ended questions were categorized and summarized.

Data analysis

This study collected information on both visitor groups and individual group members. Thus, the sample size ("N"), varies from figure to figure. For example, while Figure 1 shows information for 499 visitor groups, Figure 4 presents data for 1,685 individuals. A note above each graph specifies the information illustrated.

Sample size, missing data and reporting errors

Occasionally, a respondent may not have answered all of the questions, or may have answered some incorrectly. Unanswered questions result in missing data and cause the number in the sample to vary from figure to figure. For example, although 505 questionnaires were returned by Pictured Rocks National Lakeshore visitors, Figure 1 shows data for only 499 respondents.

Questions answered incorrectly due to carelessness, misunderstanding directions, and so forth turn up in the data as reporting errors. These create small data inconsistencies.

Limitations

Like all surveys, this study has limitations that should be considered when interpreting the results.

- 1. It is not possible to know whether visitor responses reflect actual behavior. This disadvantage applies to all such studies and is reduced by having visitors fill out the questionnaire soon after they visit the park.
- 2. The data reflect visitor use patterns of visitors to the selected sites during the study period of July 29-August 4, 2001. The results do not necessarily apply to visitors during other times of the year.
- 3. Caution is advised when interpreting any data with a sample size of less than 30, as the results may be unreliable. Whenever the sample size is less than 30, the word "CAUTION!" is included in the graph, figure or table.

Special conditions

Weather conditions during the visitor study were fairly typical of July and August in the Pictured Rocks area, with warm, sunny days and the occasional rain shower.

RESULTS

At Pictured Rocks NL, 635 visitor groups were contacted and 616 of these groups (97%) accepted questionnaires. Questionnaires were completed and returned by 505 visitor groups, resulting in an 82.0% response rate for this study.

Table 2 compares age and group size information collected from the total sample of visitors contacted with that from those who actually returned questionnaires. Based on the variables of respondent age and visitor group size, non-response bias was judged to be insignificant.

Table 2: Comparison of total sample and actual respondents

| Variable | Total sample | | Actual respondents | | |
|--------------------|--------------|------|--------------------|------|--|
| | N | Avg. | N | Avg. | |
| Age of respondents | 616 | 43.7 | 492 | 44.4 | |
| Group size | 616 | 2.6 | 499 | 3.9 | |

Figure 1 shows visitor group sizes, which ranged from one person to 25 people. Thirty-six percent of visitor groups consisted of two people, while another 20% consisted of four people. Sixty-seven percent of visitor groups were made up of family members, 13% were made up of friends, and 13% were made up of family and friends (see Figure 2). Groups listing themselves as "other" for group type included church and school groups. Most visitor groups (97%) were not with a guided tour (see Figure 3).

Forty-six percent of visitors were between the ages of 31 and 55 (see Figure 4). Twenty-six percent of visitors were aged 15 years or younger.

Most respondents (96%) said no group members had disabilities or impairments (see Figure 5). Of those with disabilities or impairments, not enough visitors responded to provide reliable data (see Figures 6 and 7). Of those who listed disabilities or impairments, the access/ service problems encountered included: the staircase to Miner's Castle was not accessible, the walks were long, and there were not enough benches.

Visitors contacted

Demographics

Demographics continued

Visitors were asked to list the number of visits they had made to the park including this visit during the past 12 months and from 2 to 5 years ago. Eighty-five percent of visitors indicated they had visited only once in the past 12 months, while more than 12% said they had visited between 2 and 4 times (see Figure 8). During the past 2 to 5 years, 36% had not visited the park, and 28% had visited between 2 and 4 times (see Figure 9).

International visitors to Pictured Rocks NL comprised 3% of the total visitation (see Table 3). The countries most often represented were Germany (41%), Canada (22%) and France (9%). The largest proportions of United States visitors were from Michigan (60%), Illinois (8%), and Wisconsin (8%). Smaller proportions of U.S. visitors came from another thirty-five states (see Map 1 and Table 4).

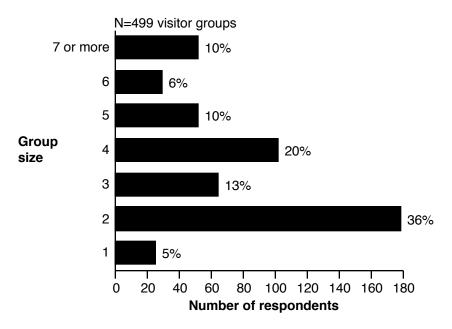


Figure 1: Visitor group sizes

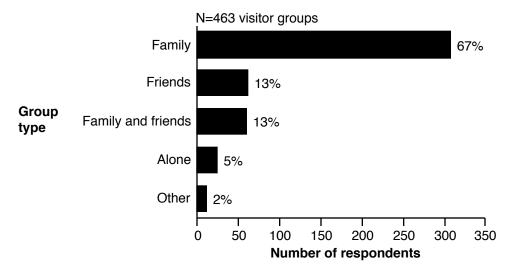


Figure 2: Visitor group types

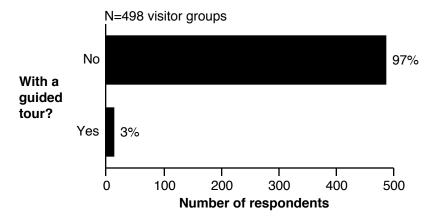


Figure 3: Participation with a guided tour

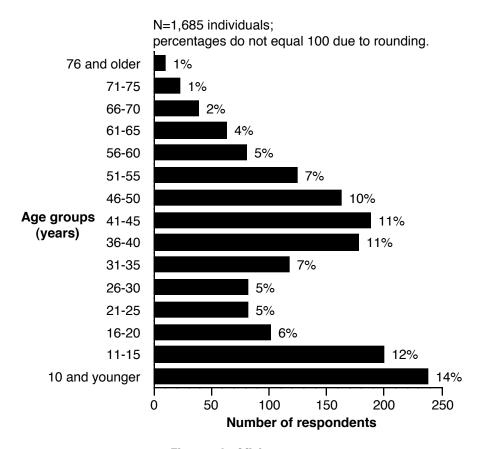


Figure 4: Visitor ages

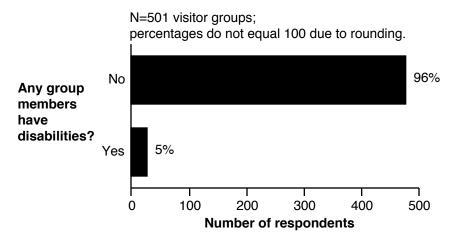


Figure 5: Visitors with disabilities

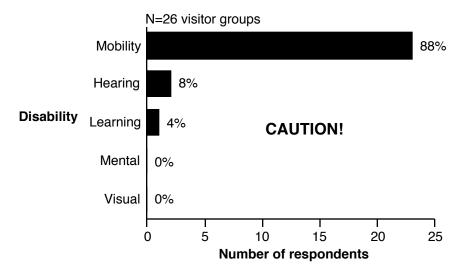


Figure 6: Visitor disabilities or impairments

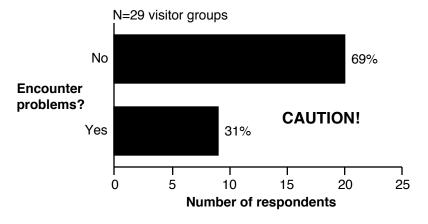


Figure 7: Visitor access/ service problems in park for visitors with disabilities or impairments

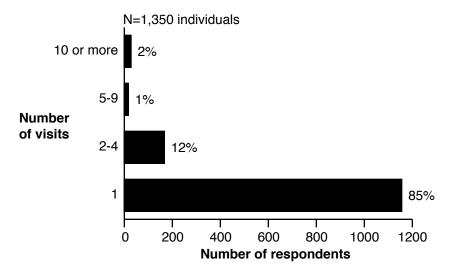


Figure 8: Number of visits during past 12 months

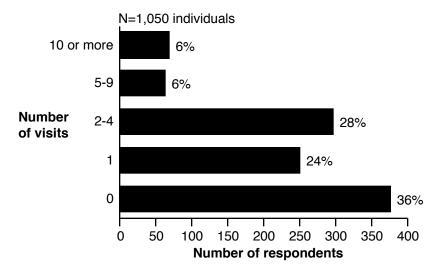
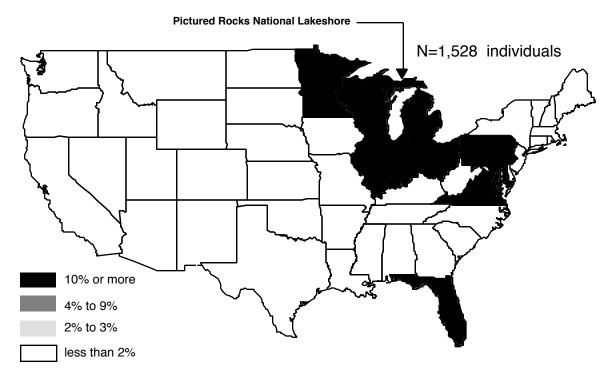


Figure 9: Number of visits during past 2-5 years

Table 3: International visitors by country of residence N=46 individuals; percentages do not equal 100 due to rounding.

| Country | Number of individuals | Percent of Int'l visitors | Percent of total visitors |
|---|--|--|--|
| Germany Canada France Russia China England Poland Taiwan Australia Mexico | 19 10 4 3 2 2 2 2 2 1 | 41 22 9 7 4 4 4 4 2 2 | 1 1 <1 <1 <1 <1 <1 <1 |
| | | | |



Map 1: Proportion of United States visitors by state of residence

Table 4: United States visitors by state of residence N=1,528 individuals; Percentages do not equal 100 due to rounding.

| State | Number of individuals | Percent of U.S. visitors | Percent of total visitors |
|-----------------------|-----------------------|--------------------------|---------------------------|
| Michigan | 913 | 60 | 58 |
| Illinois | 127 | 8 | 8 |
| Wisconsin | 120 | 8 | 8 |
| Ohio | 83 | 5 | 5 |
| Indiana | 46 | 3 | 3 |
| Minnesota | 41 | 3 | 3 |
| Iowa | 17 | 1 | 1 |
| California | 15 | 1 | 1 |
| Penn s ylvania | 13 | 1 | 1 |
| New York | 12 | 1 | 1 |
| Florida | 11 | 1 | 1 |
| Texas | 10 | 1 | 1 |
| Colorado | 9 | 1 | 1 |
| Massachusetts | 9 | 1 | 1 |
| Missouri | 8 | 1 | 1 |
| North Carolina | 8 | 1 | 1 |
| New Mexico | 8 | 1 | 1 |
| 21 other states | 72 | 5 | 5 |

Visitor groups were asked how much time they spent at Pictured Rocks NL. Forty-seven percent of visitors spent less than 24 hours at the park, as shown in Figure 10. Twenty-eight percent of visitor groups spent one to two days, and 11% spent three days at the park. Of the groups that spent less than 24 hours at the park, 29% spent seven hours or more (see Figure 11).

Length of stay

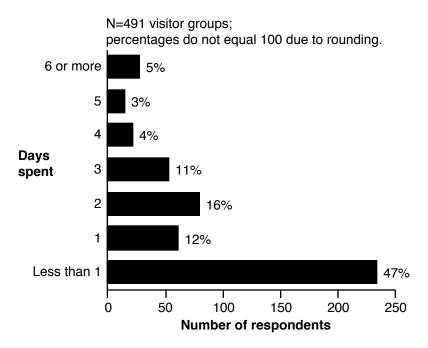


Figure 10: Days spent at Pictured Rocks NL

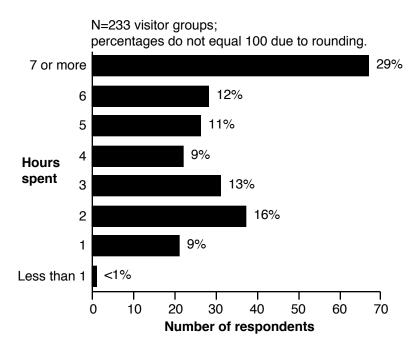


Figure 11: Hours spent at Pictured Rocks NL if less than 24 hours

Visitor groups were asked to indicate the sources from which they had received information about Pictured Rocks NL prior to their visit. Fifty-one percent of visitor groups received information from previous visits, 47% from friends or relatives, and 41% from travel guides/ tour books (see Figure 12). Five percent of visitor groups received no information prior to their visit. Eleven percent of visitor groups received information from "other" sources, including maps and National Park Service rangers.

Sources of information

Visitor groups were asked to indicate the sources of information they used during their visit. Forty percent of visitor groups used travel guides/ tour books, 32% used personal experience, and 29% used the Michigan Travel Center (see Figure 13). Eighty-eight percent of visitor groups received all of the information that they needed (see Figure 14). Information that visitors needed but did not receive included more detailed maps of Pictured Rocks NL roads, better trail maps, and information regarding black flies.

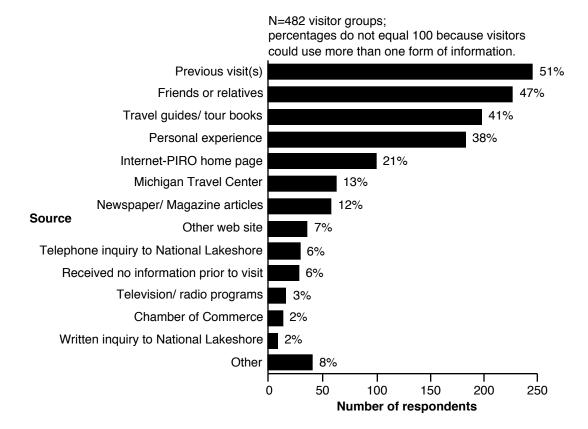


Figure 12: Sources of information used by visitors prior to this visit

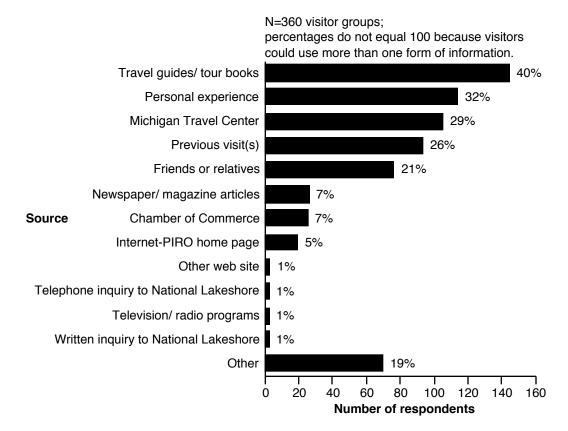


Figure 13: Sources of information used by visitors during this visit

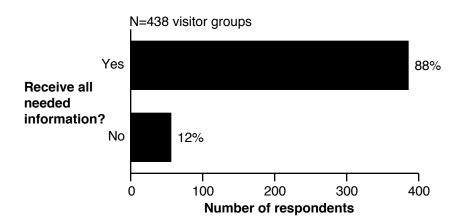


Figure 14: Receive all needed information?

Visitor groups were asked to indicate their primary reason for visiting the Pictured Rocks NL area. Seventy-three percent of visitor groups indicated that visiting Pictured Rocks NL was their primary reason for visiting the area, 18% to visit other attractions in the area, and 6% to visit friends or relatives in the area (see Figure 15).

Primary reason for visiting the area

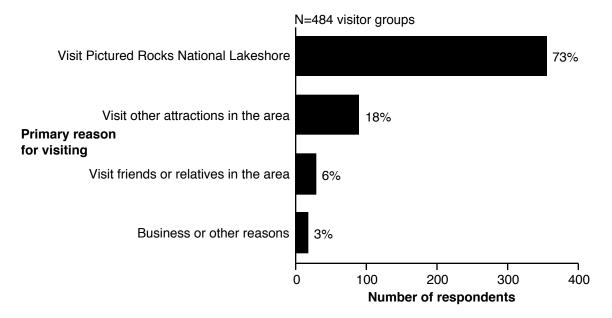


Figure 15: Primary reason for visiting the area

Travel plans

Visitor groups were asked how this visit to Picture Rocks NL fit into their travel plans. Sixty-one percent of visitor groups visited Pictured Rocks NL as one of several destinations, 30% as their primary destination, and 9% had not planned on visiting (see Figure 16).

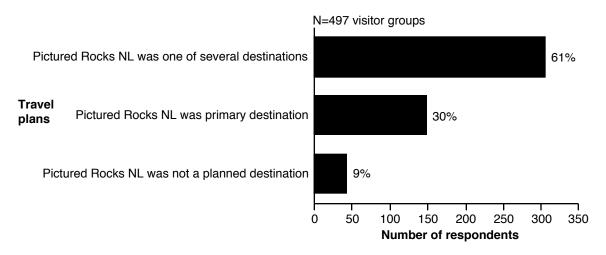


Figure 16: Pictured Rocks NL as part of visitors' travel plans

Visitor groups were asked if they stayed overnight within 60 miles of Pictured Rocks NL. Most visitor groups (76%) did stay overnight in the area (see Figure 17).

Overnight stays and lodging

Visitor groups who stayed overnight were then asked the number of nights they stayed in and outside the park. In the park, 33% stayed one or two nights (see Figure 18). Thirty-seven percent did not stay overnight in the park. Outside the park, 54% spent one or two nights (see Figure 19). Five percent did not stay overnight outside the park.

Finally, visitors who stayed overnight were asked to identify the types of lodging where they stayed either in or outside Pictured Rocks NL. In the park, the most used types of lodging were campground/ trailer park (51%), backcountry campsite (20%), and lodge, motel, cabin, etc. (18%), as shown in Figure 20. Visitors often say they stayed in a lodge, motel, cabin, etc. in a park, even when a park has no such lodging available in its boundaries. This should be considered when interpreting the data for types of lodging used in the park.

Outside the park, the most used types of lodging were lodge, motel, cabin, etc. (60%), campground/ trailer park (34%), and residence of friends or relatives (4%), as shown in Figure 21. "Other" types of lodging included motorhomes and tents.

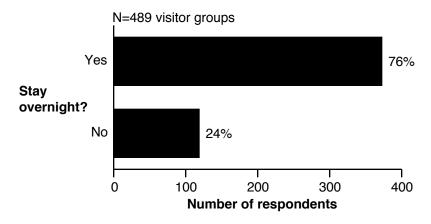


Figure 17: Overnight stays within 60 miles of Pictured Rocks NL

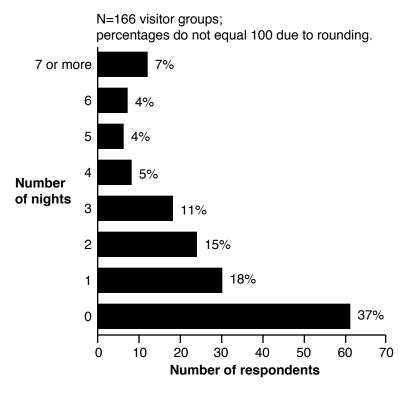


Figure 18: Number of nights in park

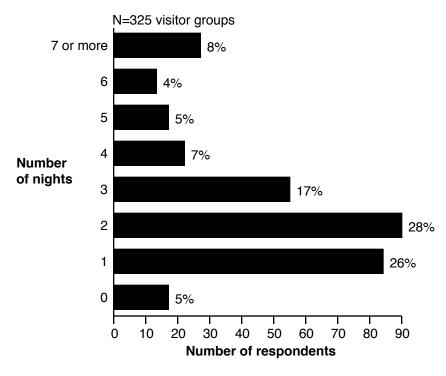


Figure 19: Number of nights out park

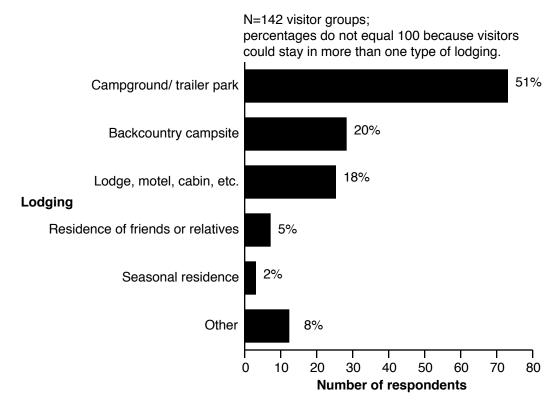


Figure 20: Types of lodging used in park

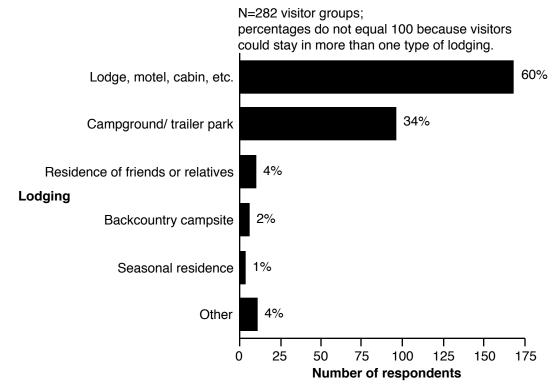


Figure 21: Types of lodging used outside park

Pictured Rocks NL has numerous entrances. Visitor groups were asked how many times they entered Pictured Rocks NL on this visit. Figure 22 shows that 38% of visitor groups entered one time, 24% entered two times, and 19% entered three times. Eighty-nine visitor groups did not know how many times they entered the park.

Park entries

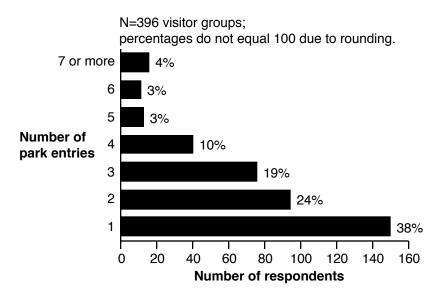


Figure 22: Number of park entries

Sites visited

Visitor groups were asked to list the order in which they visited selected sites in Pictured Rocks NL. The most visited sites were the Miner's Area (59%), Munising Falls (47%), and the Visitor Information Center in Munising (42%), as shown in Figure 23. The least visited site was the Grand Marais Maritime Museum (12%). "Other" sites visited include the beach at Sable Falls, Sable Lake, and the shipwrecks.

The sites most often visited first were the Visitor Information Center (33%), Munising Falls (15%), and the Grand Sable Visitor Center (13%), as shown in Figure 24. The site visited least was Mosquito Beach. "Other" sites visited first included the scenic overlook at Munising and the dunes.

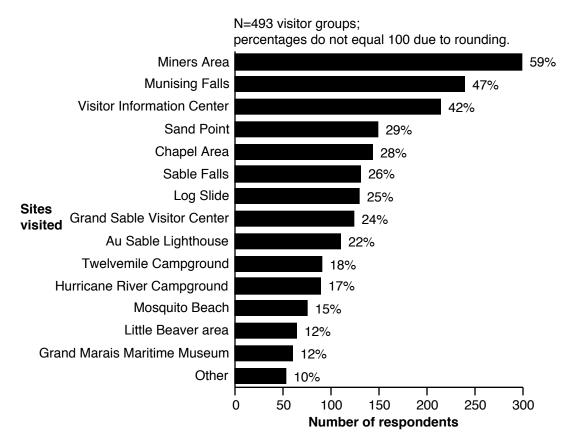


Figure 23: Sites visited

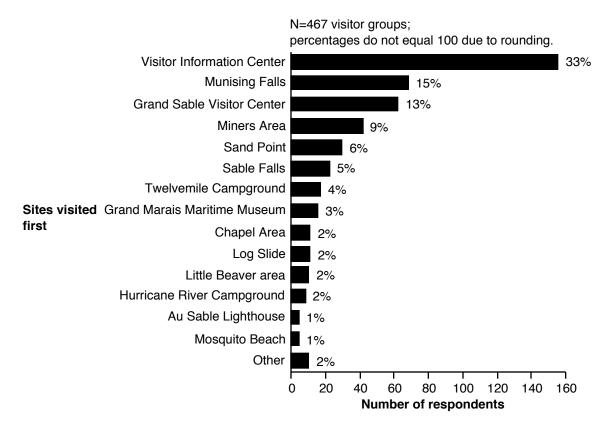


Figure 24: Sites visited first

Activities

Figure 25 shows the proportions of visitor groups that participated in a variety of activities at Pictured Rocks NL. The most common activities were sightseeing (78%), beach activities (67%), day hiking (66%) and enjoying solitude/ quiet (65%) The least done activity was motorized boating (3%).

In addition, visitor groups were asked to specify where they did certain activities. Of those camping in vehicle access campgrounds, 42% used Twelvemile Beach Campground, 29% used Hurricane River Campground, and 29% used Little Beaver Campground (see Figure 26).

Of those visiting historic sites, 52% of visitor groups visited Sand Point, 47% visited Au Sable Lighthouse, 35% visited the Shipwrecks, and 21% visited the Grand Marais Maritime Museum (see Figure 27). "Other" activities that visitors participated in were picnicking and photography.

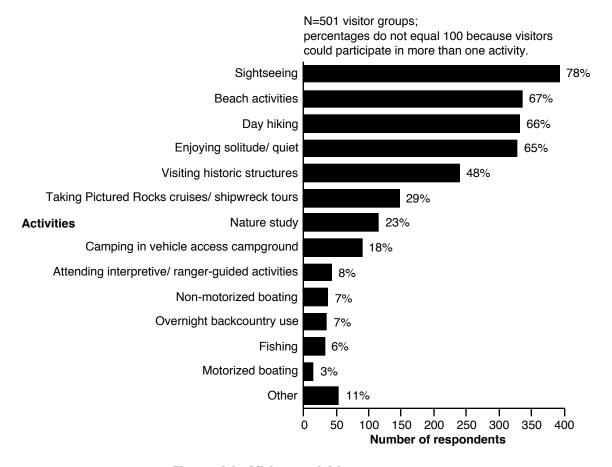


Figure 24: Visitor activities

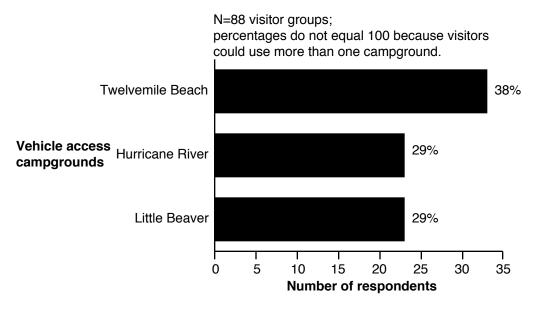


Figure 25: Camping in vehicle access campgrounds

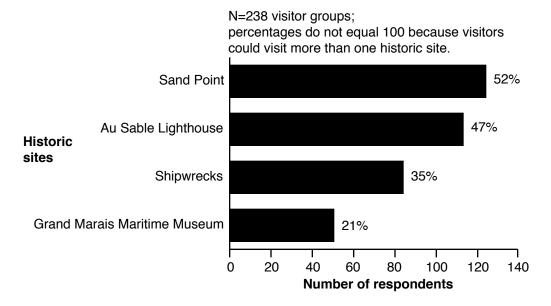


Figure 26: Visiting historic sites

Interpretive or visitor services: use, importance and quality

Visitor groups were asked to note the interpretive or visitor services they used during their visit to Pictured Rocks NL. As is shown by Figure 28, the services and facilities that were most commonly used by visitor groups were the park brochure/ map (74%), information desk service (57%), trailhead bulletin boards (52%) and nature trail exhibits (44%). The least used service was emergency services (2%).

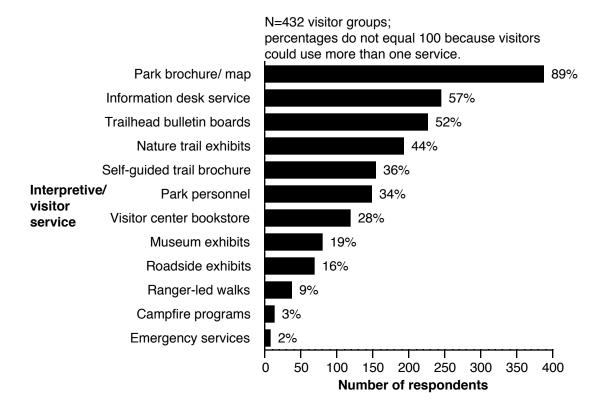


Figure 28: Services and facilities used

Visitor groups rated the importance and quality of each of the services they used. The following five point scales were used in the questionnaire:

IMPORTANCE

5=extremely important

4=very important

3=moderately important

2=somewhat important

1=not important

QUALITY

5=very good

4=good

3=average

2=poor

1=very poor

The average importance and quality ratings for each service were determined based on ratings provided by visitors who used each service. Figures 29 and 30 show the average importance and quality ratings for each of the interpretive or visitor services. All services were rated as above "average" both in importance and quality by those who used them. It should be noted that campfire programs and emergency services were not rated by enough people to provide reliable data.

Figures 31-42 show the importance ratings that were provided by visitor groups who used each of the individual services. Those services receiving the highest proportion of "extremely important" or "very important" ratings included park brochure/ map (86%), information desk service (81%) and ranger-led walks (73%). The highest proportions of "not important" ratings were for the self-guided trail brochure (7%) and the visitor center bookstore (5%).

Figures 43-54 show the quality ratings that were provided by visitor groups who used each of the individual services. Those services receiving the highest proportion of "very good" or "good" ratings included the park personnel (91%), information desk service (89%) and ranger-led walks (89%). The highest proportion of "very poor" ratings was for the self-guided trail brochure (6%).

Figure 55 combines the "very good" and "good" quality ratings and compares those ratings for all of the services.

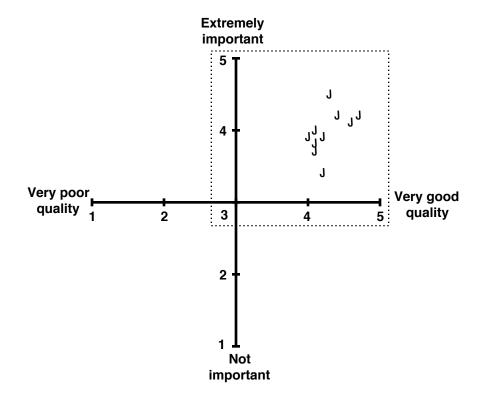


Figure 29: Average ratings of service importance and quality

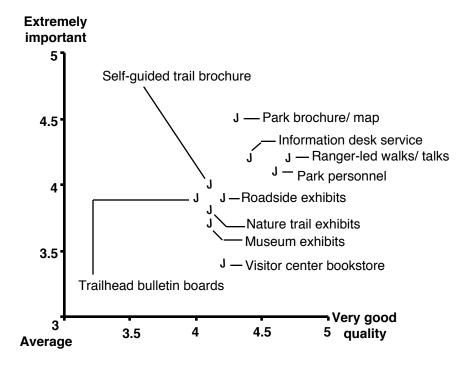


Figure 30: Detail

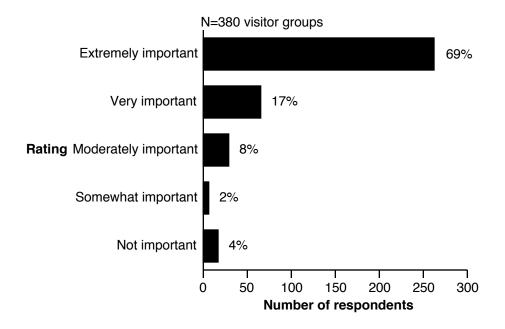


Figure 31: Importance of park brochure/map (National Park Service)

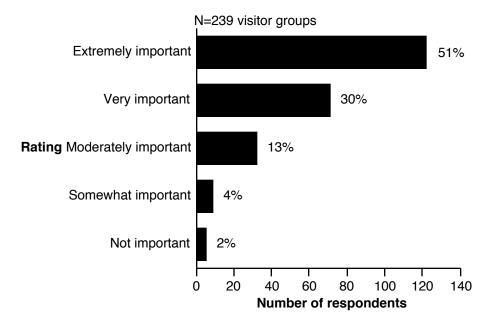


Figure 32: Importance of information desk service

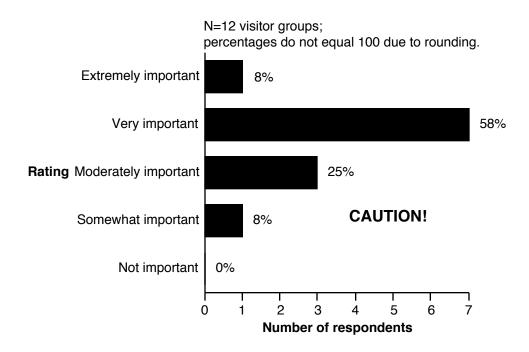


Figure 33: Importance of campfire programs

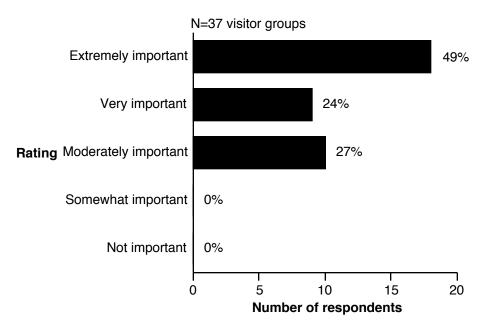


Figure 34: Importance of ranger-led walks/ talks (other than campfire programs)

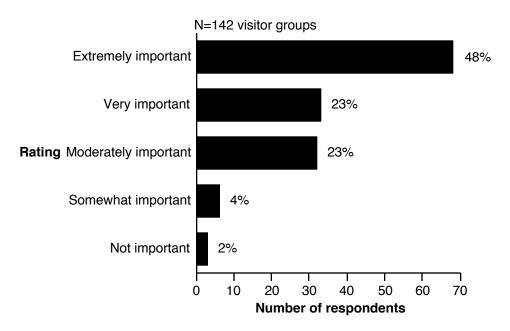


Figure 35: Importance of park personnel

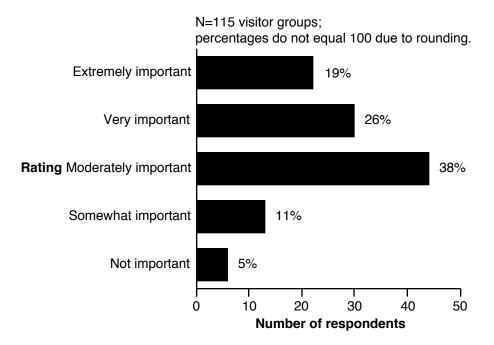


Figure 36: Importance of visitor center bookstores

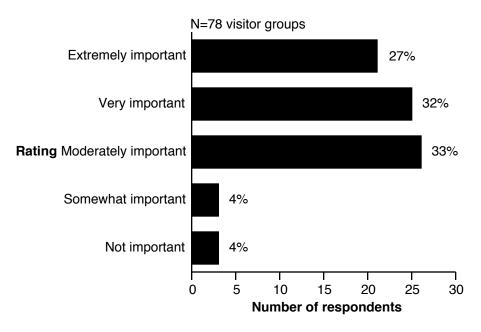


Figure 37: Importance of museum exhibits

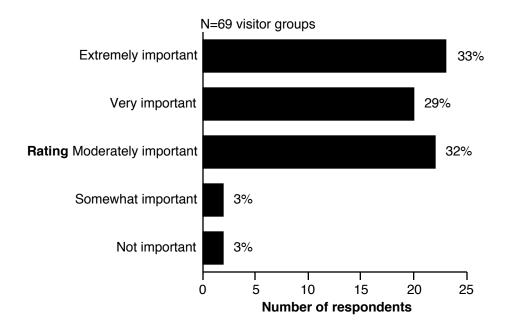


Figure 38: Importance of roadside exhibits

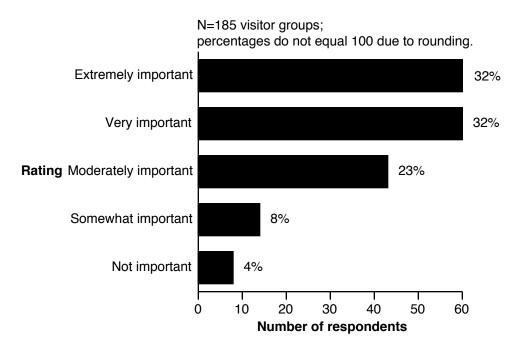


Figure 39: Importance of nature trail exhibits

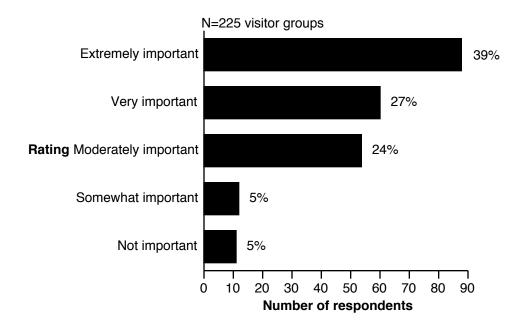


Figure 40: Importance of trailhead bulletin boards

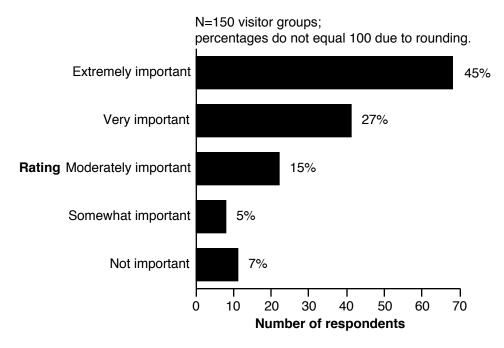


Figure 41: Importance of self-guided trail brochure

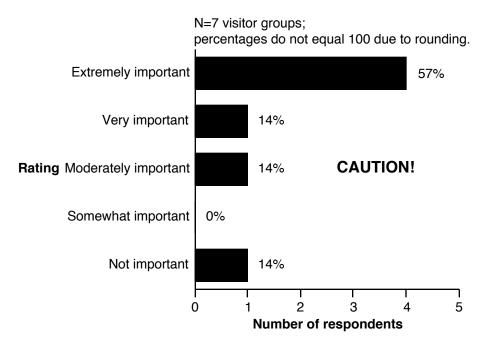


Figure 42: Importance of emergency services

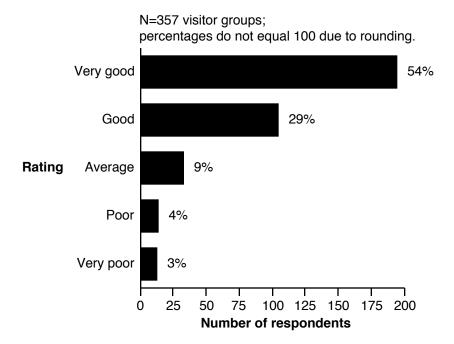


Figure 43: Quality of park brochure/ map (National Park Service)

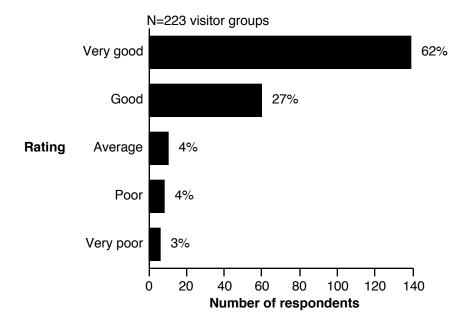


Figure 44: Quality of information desk service

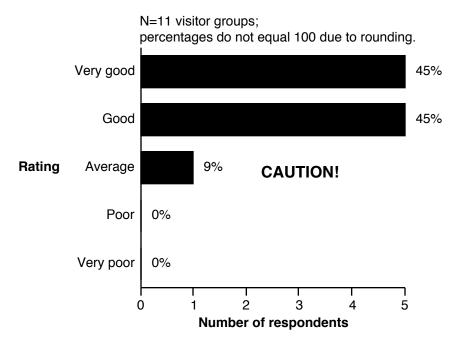


Figure 45: Quality of campfire programs

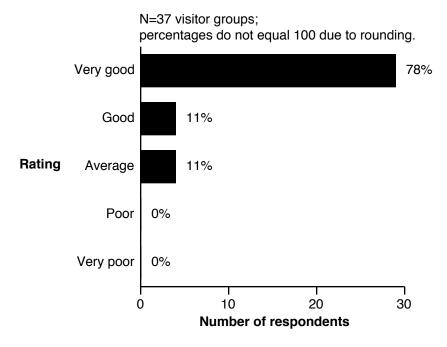


Figure 46: Quality of ranger-led walks/ talks (other than campfire programs)

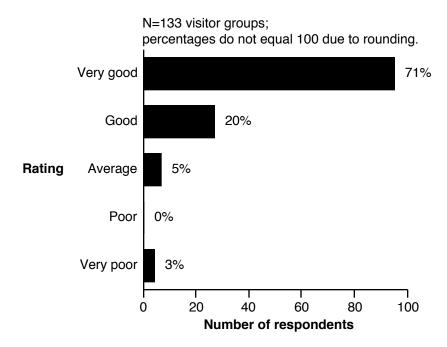


Figure 47: Quality of park personnel

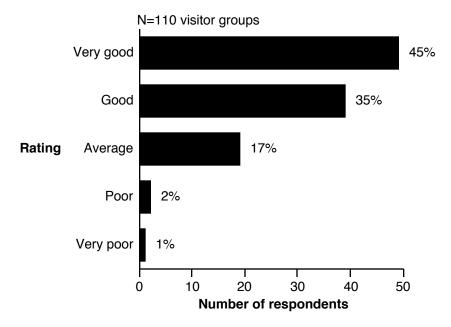


Figure 48: Quality of visitor center bookstores

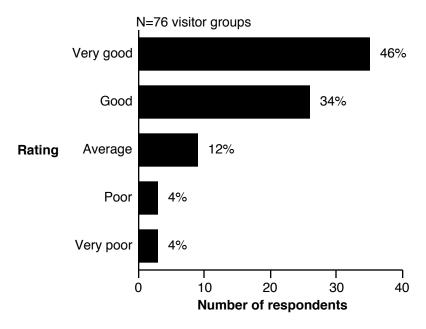


Figure 49: Quality of museum exhibits

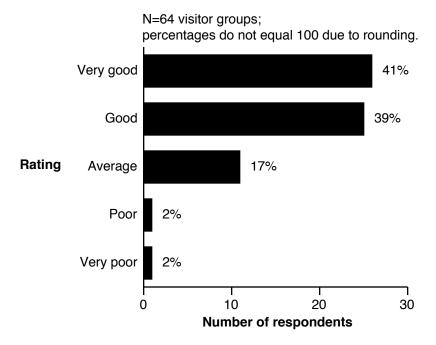


Figure 50: Quality of roadside exhibits

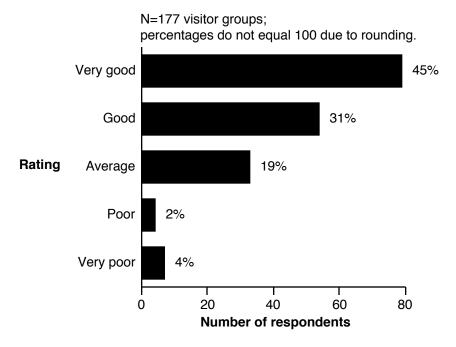


Figure 51: Quality of nature trail exhibits

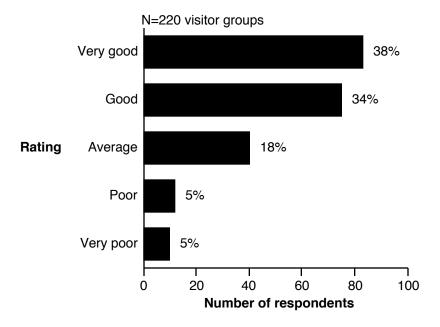


Figure 52: Quality of trailhead bulletin boards

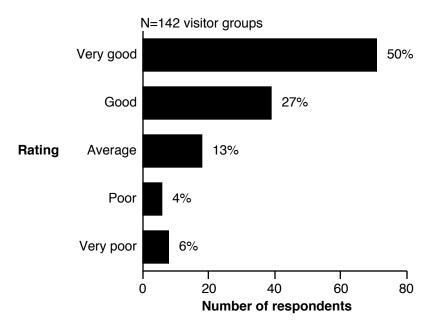


Figure 53: Quality of self-guided trail brochure

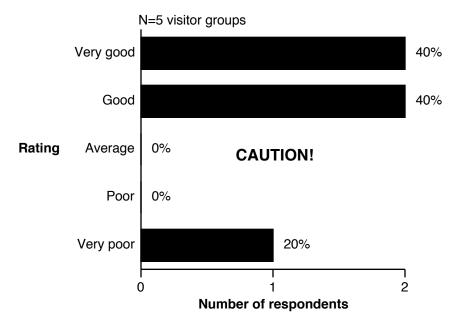


Figure 54: Quality of emergency services

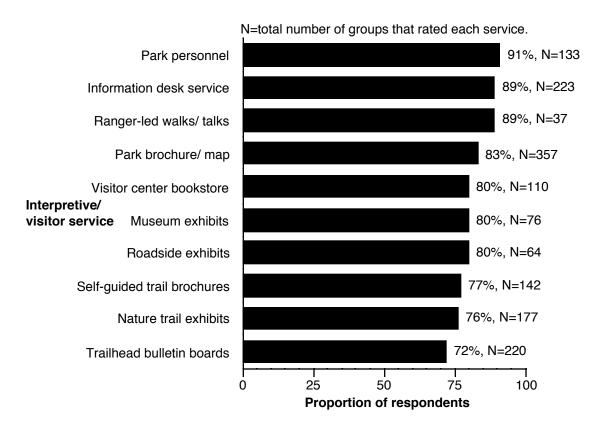


Figure 55: Combined proportions of "very good" or "good" quality ratings for services

Park elements effects on visitor experience

Visitor groups were asked: "On this visit to Pictured Rocks
National Lakeshore, please indicate how the following elements may have
affected your park experience." Except for wildlife, the majority of visitor
groups indicated "no effect" from the park elements (see Figures 56-61).
Seventy percent of visitor groups indicated the effects from wildlife
"added to" their park experience (see Figure 57). The element which
"detracted from" their visit the most was personal watercraft (23%).

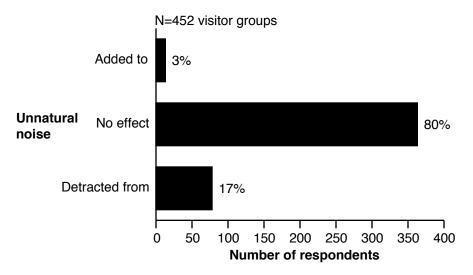


Figure 56: Effects of unnatural noise on visitor experience

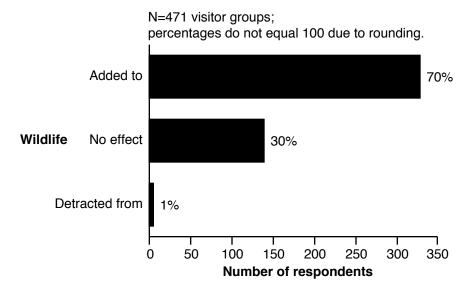


Figure 57: Effects of wildlife on visitor experience

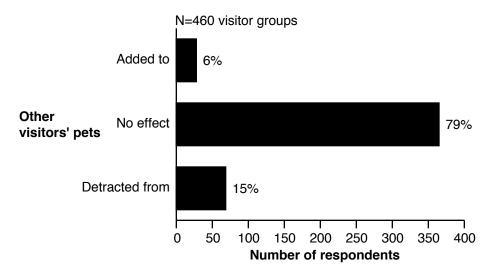


Figure 58: Effects of other visitors' pets on visitor experience

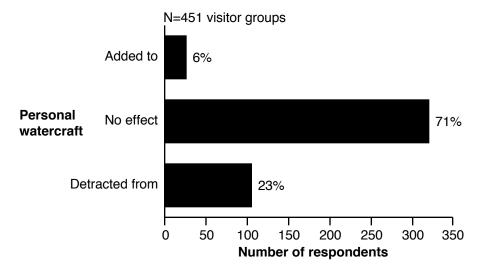


Figure 59: Effects of personal watercraft on visitor experience

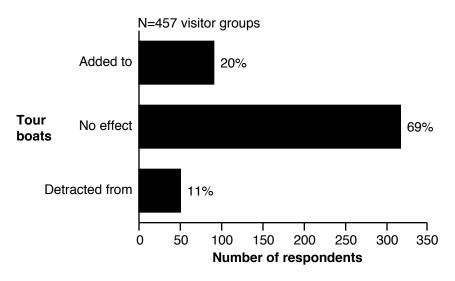


Figure 60: Effects of tour boats on visitor experience

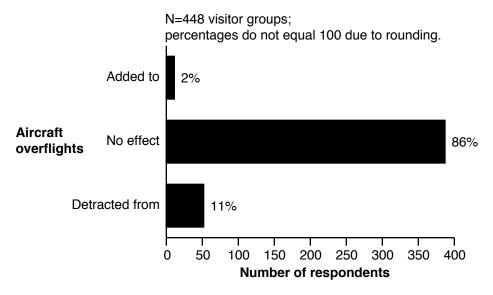


Figure 61: Effects of aircraft overflights on visitor experience

Visitor groups were asked to list the amount of money they spent both inside Pictured Rocks NL and within 60 miles of the park on this visit. Groups were asked to indicate the amounts they spent for lodging; camping fees; guide fees and charges; restaurants and bars; groceries and take-out food, gas and oil; other transportation expenses; admissions, recreation, entertainment fees; and all other purchases.

Total expenditures in and out of park: Twenty-seven percent of visitor groups spent \$351 or more and 16% percent of visitor groups spent between \$101 and \$150. Four percent of visitor groups spent no money (see Figure 62). Of the total expenditures by groups, 31% was for lodging, 18% was for restaurants and bars, and 12% was for groceries and take out food (see Figure 63).

The average <u>visitor group</u> expenditure during this visit was \$294. The median visitor group expenditure (50% of groups spent more and 50% of groups spent less) was \$170. The average <u>per capita</u> expenditure was \$87. In addition, visitors were asked to indicate how many adults (18 years and older) and children (under 18 years) were covered by their expenditures. Figure 64 shows that 65% of the visitor groups had two adults. Figure 65 shows that 53% of the visitor groups had no children and 31% had one or two children under 18 years of age.

Total expenditures

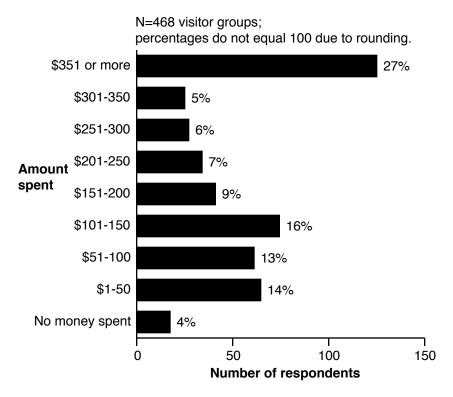


Figure 62: Total expenses in Pictured Rocks NL and surrounding area

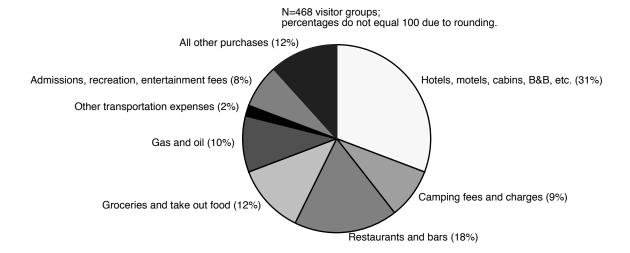


Figure 63: Proportions of expenses in Pictured Rocks NL and surrounding area

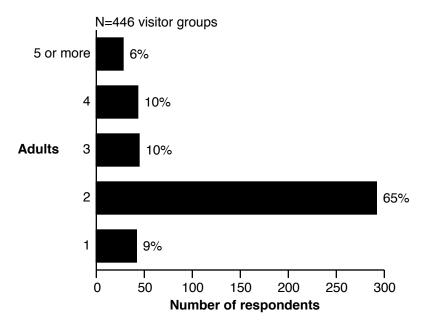


Figure 64: Number of adults covered by expenses

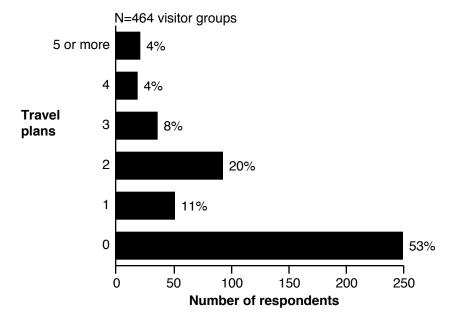


Figure 65: Number of children covered by expenses

Expenditures inside park

Total expenditures in the park: Thirty-three percent of visitor groups spent no money in Pictured Rocks NL and another 51% spent between \$1 and \$50 in total expenditures in the park on this visit (see Figure 66). The average <u>visitor group</u> expenditure in the park during this visit was \$39. The <u>median</u> visitor group expenditure in the park (50% of groups spent more; 50% spent less) was \$15. The average <u>per capita</u> expenditure was \$18.

Camping fees and charges accounted for 55% of total expenditures in the park, followed by all other purchases (45%), as shown in Figure 67.

Camping fees and charges in the park: Thirty-two percent of visitor groups spent between \$1 and \$25 on admission, recreation, and entertainment fees in Pictured Rocks NL, while 12% spent between \$26 and \$50 (see Figure 68). Forty-five percent of visitor groups spent no money on fees.

Other purchases in the park: Thirty percent of visitor groups spent between \$1 and \$25 on other purchases in Pictured Rocks NL; 52% spent no money on other purchases (see Figure 69).

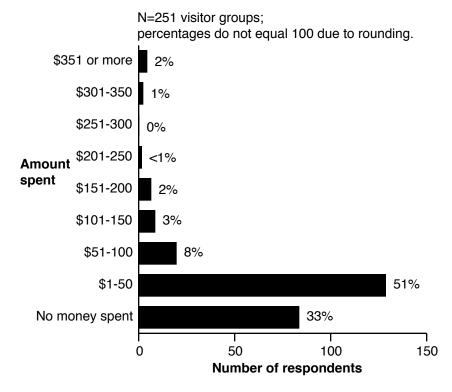


Figure 66: Total expenditures in park

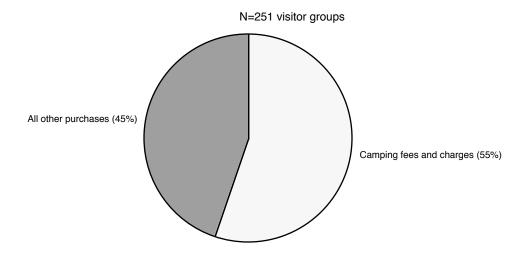


Figure 67: Proportion of expenditures in park

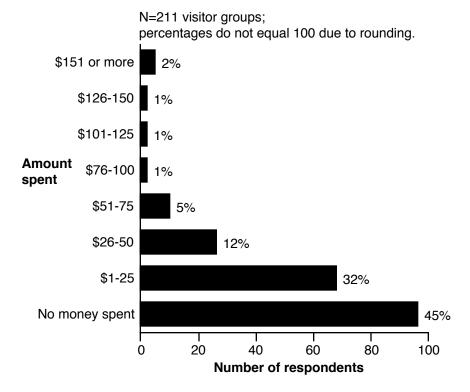


Figure 68: Camping fees and charges in park

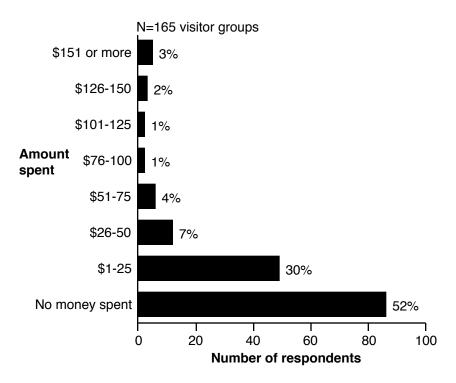


Figure 69: Expenditures for all other purchases in park (souvenirs, film, books, sporting goods, clothing)

**Total expenditures: Twenty-five percent of visitor groups spent \$351 or more in total expenditures out of the park during this trip (see Figure 70). Only 3% spent no money at all outside the park. The average visitor group expenditure out of the park during this visit was \$282. The median visitor group expenditure out of the park (50% of groups spent more; 50% spent less) was \$160. The average per capita expenditure was \$86.

Lodging accounted for 33% of total expenditures out of the park, followed by 19% for restaurants and bars, as shown in Figure 71.

Hotels, motels, cabins, B&B, etc. out of the park: Forty-two percent of visitor groups spent no money on lodging out of the park during this trip while 26% of spent \$151 or more (see Figure 72).

Camping fees and charges out of the park: Forty-seven percent of visitor groups spent no money on camping fees and charges out of the park (see Figure 73). Thirty-five percent spent between \$1 and \$50.

Restaurants and bars out of the park: Twenty-five percent of visitor groups spent between \$26 and \$50 on restaurants and bars out of the park, while 21% spent between \$1 and \$25 (see Figure 74).

Groceries and take-out food out of the park: Thirty-six percent of visitor groups spent between \$1 and \$25 on groceries and take-out food out of the park, while 26% spent between \$26 and \$50 (see Figure 75).

Gas and oil out of the park: Forty-two percent of visitor groups spent between \$1 and \$25 on gas and oil out of the park, while 33% spent between \$26 and \$50 (see Figure 76).

Other transportation expenses out of the park: Most visitor groups (82%) spent no money on other transportation expenses out of the park (see Figure 77).

Admissions, recreation, and entertainment fees out of park: Thirty-nine percent of visitor groups spent no money on admissions, recreation, and entertainment fees out of the park (see Figure 78).

Other purchases out of park: Thirty percent of visitor groups spent no money on other purchases out of the park. Forty-nine percent of visitor groups spent between \$1 and \$50 on other purchases out of the park (see Figure 79).

Expenditures outside park

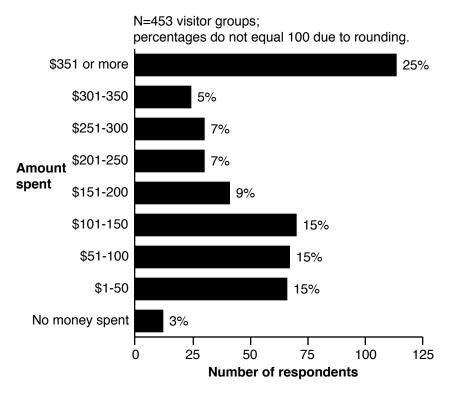


Figure 70: Total expenditures out of park

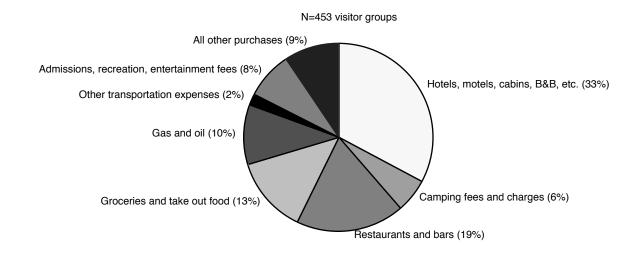


Figure 71: Proportion of expenditures out of park

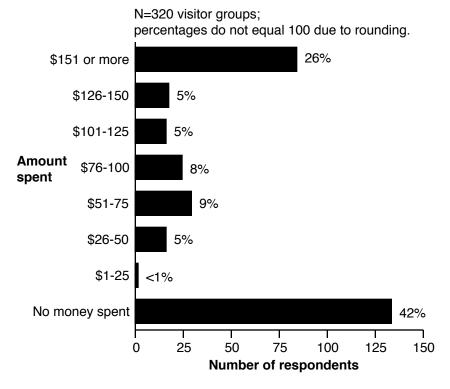


Figure 72: Expenditures for hotels, motels, cabins and B&B out of park

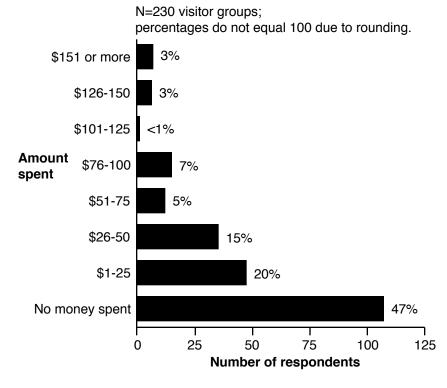


Figure 73: Expenditures for camping fees and charges out of park

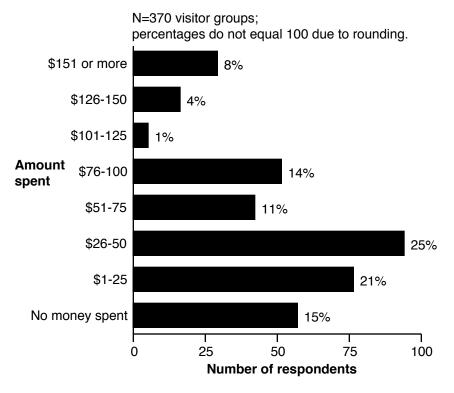


Figure 74: Expenditures for restaurants and bars out of park

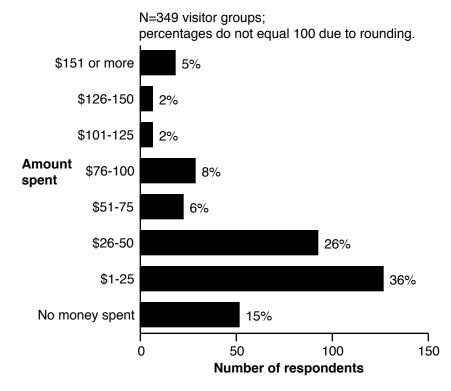


Figure 75: Expenditures for groceries and take-out food out of park

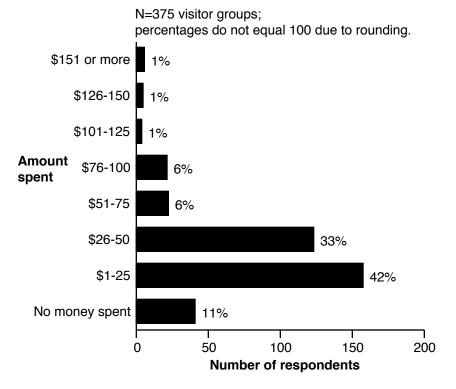


Figure 76: Expenditures for gas and oil out of park

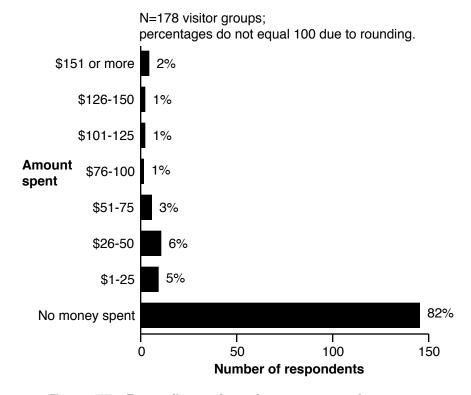


Figure 77: Expenditures for other transportation expenses out of park

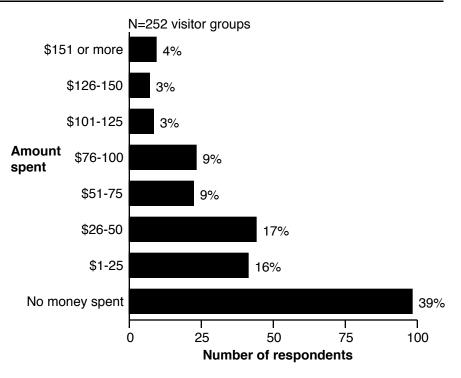


Figure 78: Expenditures for admissions, recreation, and entertainment fees out of park

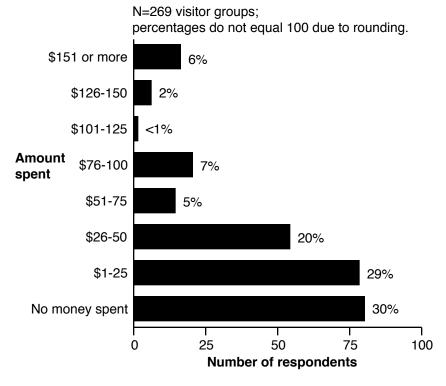


Figure 79 Expenditures for all other purchases out of park (souvenirs, film, books, sporting goods, clothing)

Visitor groups were asked their preferred methods for learning about cultural and natural history on future visits to Pictured Rocks NL. As is shown in Figure 80, two-thirds of visitor groups (67%) indicated printed material as their preferred method, followed by visitor center exhibits (54%), trailside exhibits (46%), and visitor center personnel (40%). The least preferred method was an interactive computer (14%). Eight percent of visitor groups were not interested in learning about cultural and natural history on future visits to the park. Other preferred methods of learning included videos, a naturalist on the tour boat, and a dedicated radio station.

Preferred methods for learning about cultural and natural history

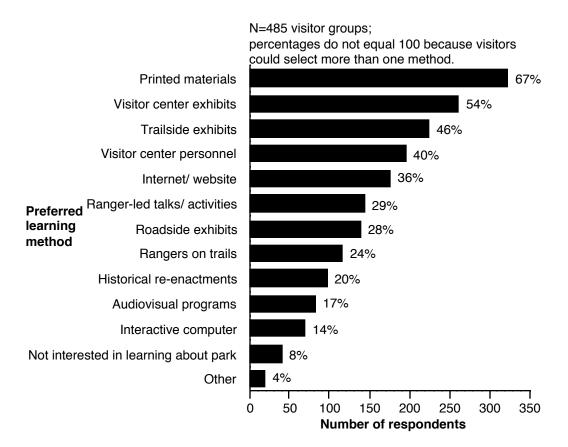


Figure 80: Preferred methods of learning about cultural and natural history

Overall quality of visitor services

Visitor groups were asked to rate the overall quality of the visitor services provided at Pictured Rocks NL during this visit. Most visitor groups (95%) rated services as "very good" or "good" (see Figure 81). No visitor groups rated the overall quality of services provided at Pictured Rocks NL as "very poor."

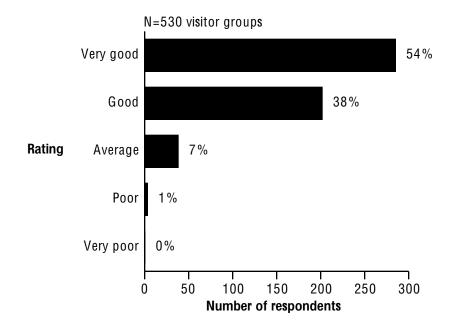


Figure 81: Overall quality of visitor services

Visitor groups were asked what they liked most about their visit to Pictured Rocks NL. Ninety-two percent of visitor groups (465 groups) responded to this question. A summary of their responses is listed below in Table 5 and complete copies of visitor responses are contained in the appendix.

What visitors like most

Table 5: What visitors like most

N=674 comments; many visitors made more than one comment.

| Comment | Number of times mentioned |
|--|--|
| PERSONNEL Comments | 4 |
| INTERPRETIVE SERVICES Comments | 1 |
| FACILITIES AND MAINTENANCE Clean park Access through park Small campgrounds Unpaved roads Well maintained campgrounds Well maintained trails Other comments | 10 3 2 2 2 2 2 6 |
| POLICY Comments | 2 |
| RESOURCE MANAGEMENT Hiking/ walking trails Waterfalls Boat tour Beach Scenic views Rocks Lake Superior Lakeshore Not crowded Pristine environment Dunes Swimming Water Water quality (clean/ clear) Campgrounds Chapel Beach Lighthouse Attractions Miners Beach | 48 42 41 40 30 22 18 15 11 10 8 8 8 7 6 6 6 5 4 4 |

| | Number of |
|---------------------------------|--|
| Comment | times mentioned |
| DECOLIDOE MANIA OFMENT (+ 1) | |
| RESOURCE MANAGEMENT (continued) | 4 |
| Sable Lighthouse tour | 4 |
| Backcountry trails | ა ი |
| Mosquito Beach | ა ი |
| Shipwreck tour Wildlife | ა ე |
| | ა ი |
| Backpacking | 2 |
| Beachcombing | 2 |
| Camping Cliffs | 2 |
| Fishing | 2 |
| Good water access | 2 |
| Log Slide | 2 |
| Scenic drive | 2 |
| Skylane Air Tour | 2 |
| Steps to Sable Falls | 2 |
| Twelvemile Beach | 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| Uncommercialized | 2 |
| Other comments | 7 |
| other comments | , |
| GENERAL IMPRESSIONS | |
| Scenery/ natural beauty | 138 |
| Peace and quiet | 32 |
| Solitude | 21 |
| Experience of nature | 11 |
| Hiking/ walking | 10 |
| Solitude | 21 |
| Escape from everyday life | 6 |
| Remote | 4 |
| Weather | 4 |
| Rest and relaxation | 4 3 3 2 |
| Sunsets | 3 |
| Time with friends/ family | 2 |
| Other comments | 5 |

Visitor groups were asked what they liked least about their visit to Pictured Rocks NL. Seventy-four percent of visitor groups (374 groups) responded to this question. A summary of their responses is listed below in Table 6 and complete copies of visitor responses are contained in the appendix.

What visitors like least

Table 6: What visitors like least

N=387 comments; some visitors made more than comment.

| Comment | Number of times mentioned |
|---|---|
| PERSONNEL Comments | 6 |
| INTERPRETIVE SERVICES No trail or backcountry maps Inadequate information along roads Other comments | 3 2 7 |
| FACILITIES AND MAINTENANCE Unpaved roads Dirty restrooms Cigarette butt littering Litter Highway 58 Not enough parking Few directional signs Mud on trails No toilet paper in bathrooms No recycling receptacles Other comments | 57 9 5 5 3 3 2 2 2 2 2 2 |
| RESOURCE MANAGEMENT Jet skis Commercial boat tours Difficulty accessing sites Boats Noise from watercraft Campground availability Crowding Difficulty viewing lakeshore No bike trails Noise from music Watercraft Other comments | 17 8 8 7 6 4 3 2 2 2 2 7 |

| Comment | Number of times mentioned |
|--|---------------------------------|
| POLICY Pets in park Pets allowed on trails | 5 3 |
| Dogs on beach No restrictions on pets No wheelchair access to lighthouse | 5 3 2 2 2 2 4 |
| Other comments GENERAL IMPRESSIONS Black/ stable flies | 79 |
| Weather Nothing Not enough time | 31 17 8 |
| Aircraft overflights Cost of motel room Rude people Cost of gas | 8 3 3 3 2 |
| Out of the way Other comments | 2 25 |

Visitor groups were asked, "If you were a manager planning for the future of Pictured Rocks NL, what would you propose?" Sixty-five percent of visitor groups (330 groups) responded to this question. A summary of their responses is listed below in Table 7 and complete copies of visitor responses are contained in the appendix.

Planning for the future

Table 7: Planning for the future

N=461 comments; many visitors made more than one comment.

| 0 | Number of |
|---|--|
| Comment | times mentioned |
| PERSONNEL Increase ranger patrols Other comments | 2 2 |
| INTERPRETIVE SERVICES Provide more information on PIRO history Provide information about PIRO attractions More guided nature walks/ hikes Provide information on local flora Provide information on geology of PIRO Improve maps/ provide more detail Offer interpretive tours more frequently Promote environmental awareness/ stewardship Increase access to information about park before visitors Provide environmental education opportunities Provide brochure on park activities Provide information on bear safety Provide MPS led boat tours Provide self-guided tour with brochure Other comments | 7 6 5 5 5 4 4 3 2 2 2 2 2 2 |
| FACILITIES AND MAINTENANCE Pave roads Maintain/ improve dirt roads Improve directional signs Do not pave roads Increase camping sites Improve handicap access to sites Improve trail signs Provide drinking water Make trails more accessible Modernize camping facilities Provide parking near attractions Clean bathrooms more often Do not pave H58 | 20 18 10 9 7 7 7 7 7 4 4 4 4 3 3 |

| Comment | Number of times mentioned |
|--|--------------------------------------|
| FACULTIFO AND MAINTENANOF (continued) | |
| FACILITIES AND MAINTENANCE (continued) Maintain trails | 3 |
| Provide biking trails | 3 |
| Provide canoe/ kayak rental | 3 3 3 3 3 3 3 2 |
| Provide distance markers on trails | 3 |
| Provide more parking | 3 |
| Provide more picnic facilities | 3 |
| Provide more vending machines | 3 |
| Provide recycling containers | 3 |
| Provide transportation to sites | 3 |
| Identify difficulty level of trails | 2 |
| Implement shuttle system | 2 |
| Improve bathrooms | 2 |
| Improve H-58 | 2 |
| Improve NPS gift shops | 2 |
| Modernize pit toilets | 2 |
| Pick up trash | 2 |
| Provide dump stations for RV's | 2 |
| Provide more NPS gift shops | 2 |
| Provide rest stops with benches along trails | 2 |
| Other comments | 44 |
| RESOURCE MANAGEMENT | |
| No new development | 35 |
| Maintain natural beauty | 34 |
| Conserve/ preserve the park | 3 |
| Protect park from human impact | 3 |
| Continue limiting visitor use | 2 |
| Preserve lakeshore | 2 |
| Protect park from erosion | 2 |
| Other comments | 4 |
| POLICY | |
| Eliminate watercraft | 11 |
| Place restrictions on motorized watercraft | 8 |
| Provision of reservations at campgrounds | 6 |
| Ban pets from PIRO | 2 |
| Implement fines for littering | 2 |
| Limit campgrounds to tents | 2 |
| No pets on trails | 2 |
| Place restrictions on pets | 2 2 |
| Restrict watercraft from shore | |
| Other comments | 24 |
| GENERAL IMPRESSIONS | |
| NPS does a great job | 3 |
| Continue to limit access to park | 2 |
| Cruise price too expensive | 2 |
| Get rid of biting flies | 2 |
| Other comments | 40 |

Forty-six percent of visitor groups (232 groups) wrote additional comments, which are included in the separate appendix of this report. Their comments about Pictured Rocks NL are summarized below (see Table 8). Some comments offer specific suggestions on how to improve the park; others describe what visitors enjoyed or did not enjoy about their visit.

Comment summary

Table 8: Additional comments

N=325 comments; many visitors made more than one comment.

| Comments | Number of times mentioned |
|--|--|
| PERSONNEL Helpful/ informative/ friendly staff Helpful/ informative/ friendly volunteers Other comment | 15 2 4 |
| INTERPRETIVE SERVICES Junior Ranger program worthwhile Other comments | 2 9 |
| Pack well maintained Improve directional signs Improve roads—level/ grade Park clean Printed and posted distances do not correlate Provide drinking water Appreciate limited camping spaces Good directional signs Increase number of campgrounds Other comments | 11 5 5 4 2 3 2 2 2 13 |
| RESOURCE MANAGEMENT Impressed with the lack of commercialization Enjoyed the lack of crowds Other comments | 4 2 3 |
| GENERAL IMPRESSIONS Will return Wonderful experience Beautiful Very good experience Enjoyed scenery Enjoyed hiking/ walking Keep up the good work Not enough time Peace and quiet Enjoyed camping Enjoyed scenic overlooks Favorite place to visit Enjoyed feelings of solitude Will recommend | 34 33 27 20 13 10 8 7 7 7 4 4 4 4 4 3 |

| Comments | Number of times mentioned |
|-----------------------------|---------------------------|
| GENERAL IMPRESSIONS | |
| Enjoyed backcountry | 2 |
| Enjoyed boat tour | 2 |
| Enjoyed the rocks | 2 |
| Friendly people in the area | 2 |
| Fun | 2 |
| Next time will stay longer | 2 |
| Nice park | 2 |
| Reasonable prices | 2 |
| Relaxing | 2 |
| Wanted to stay longer | 2 |
| Other comments | 37 |

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Pictured Rocks National Lakeshore Additional Analysis VSP Report 128

The Visitor Services Project (VSP) offers the opportunity to learn more from VSP visitor study data.

Additional Analysis

Additional analysis can be done using the park's VSP visitor study data that was collected and entered into the computer. Two-way and three-way cross tabulations can be made of any of the characteristics listed below. Be as specific as possible--you may select a single program/ service/ facility instead of all that were listed in the questionnaire. Include your name, address, and phone number in the request.

| • Sources of information used prior to trip | • Number of visits—past year | • Camping fee expenditures in park |
|---|--|---|
| Sources of information used during trip | • Number of visits—two to five years ago | All other expenditures in park |
| • Needed information provided | Group members with disabilities | • Lodging expenditures out of park |
| • Park as destination | • Type of disability | Camping fee expenditures out of park |
| • Length of stay | Encounter access problem for disabled | • Restaurant and bar expenditures out of park |
| • Activities | Primary reason for visiting area | Groceries and take out food expenditure |
| • Number of times entered | Stay overnight within 60 miles of the park | Gas and oil expenditures |
| • Sites visited | • Number of nights in park | Other transportation expenditures out of park |
| • Sites visited first | Number of nights outside park | • Admissions expenditures out of park |
| • Group type | • Type of lodging used in park | • All other expenditures out of park |
| • Group size | Type of lodging used out of park | Number of adults covered by expenses |
| • With guided tour | • Effects of park elements | Number of children covered by expenses |
| • Age | • Use of interpretive services | Preferred methods for learning about cultural and natural history |
| • Zip Code | • Importance of interpretive services | Overall quality of visitor services |
| • Country of residence | Quality of interpretive services | |

Requests can be handled by contacting the VSP. Phone/send requests to:

Visitor Services Project, CPSU College of Natural Resources P.O. Box 441133 University of Idaho Moscow, Idaho 83844-1133

QUESTIONNAIRE

Visitor Services Project Publications

Reports 1-6 (pilot studies) are available from the University of Idaho Cooperative Park Studies Unit. All other VSP reports listed are available from the parks where the studies were conducted or from the UI CPSU. All studies were conducted in summer unless otherwise noted.

1982

 Mapping interpretive services: A pilot study at Grand Teton National Park.

1983

- 2. Mapping interpretive services: Identifying barriers to adoption and diffusion of the method.
- 3. Mapping interpretive services: A follow-up study at Yellowstone National Park and Mt Rushmore National Memorial.
- 4. Mapping visitor populations: A pilot study at Yellowstone National Park.

1985

- 5. North Cascades National Park Service Complex
- 6. Crater Lake National Park

1986

- 7. Gettysburg National Military Park
- 8. Independence National Historical Park
- 9. Valley Forge National Historical Park

1987

- Colonial National Historical Park (summer & fall)
- 11. Grand Teton National Park
- 12. Harpers Ferry National Historical Park
- 13. Mesa Verde National Park
- 14. Shenandoah National Park
- 15. Yellowstone National Park
- Independence National Historical Park: Four Seasons Study

1988

- 17. Glen Canyon National Recreational Area
- 18. Denali National Park and Preserve
- 19. Bryce Canyon National Park
- 20. Craters of the Moon National Monument

1989

- 21. Everglades National Park (winter)
- 22. Statue of Liberty National Monument
- 23. The White House Tours, President's Park (summer)
- 24. Lincoln Home National Historical Site
- 25. Yellowstone National Park
- 26. Delaware Water Gap National Recreation Area
- 27. Muir Woods National Monument

1990

- 28. Canyonlands National Park (spring)
- 29. White Sands National Monument
- 30. National Monuments, Washington, D.C.
- 31. Kenai Fjords National Park
- 32. Gateway National Recreation Area
- 33. Petersburg National Battlefield
- 34. Death Valley National Monument
- 35. Glacier National Park
- 36. Scott's Bluff National Monument
- 37. John Day Fossil Beds National Monument

1991

- 38. Jean Lafitte National Historical Park (spring)
- 39. Joshua Tree National Monument (spring)
- 40. The White House Tours, President's Park (spring)
- 41. Natchez Trace Parkway (spring)
- 42. Stehekin-North Cascades NP/ Lake Chelan National Recreation Area
- 43. City of Rocks National Reserve
- 44. The White House Tours, President's Park (fall)

1992

- 45. Big Bend National Park (spring)
- 46. Frederick Douglass National Historic Site (spring)
- 47. Glen Echo Park (spring)
- 48. Bent's Old Fort National Historic Site
- 49. Jefferson National Expansion Memorial
- 50. Zion National Park
- 51. New River Gorge National River
- 52. Klondike Gold Rush National Historical Park (AK)
- 53. Arlington House-The Robert E. Lee Memorial

1993

- 54. Belle Haven Park/Dyke Marsh Wildlife Preserve (spring)
- 55. Santa Monica Mountains National Recreation Area (spring)
- 56. Whitman Mission National Historic Site
- 57. Sitka National Historical Park
- 58. Indiana Dunes National Lakeshore (summer)
- 59. Redwood National Park
- 60. Channel Islands National Park
- 61. Pecos National Historical Park
- 62. Canyon de Chelly National Monument
- 63. Bryce Canyon National Park (fall)