



Glen Canyon National Recreation Area

Socioeconomic Monitoring Pilot Implementation

Summer 2016

Natural Resource Report NPS/GLCA/NRR—2018/1855



ON THE COVER

Photograph of Lake Powell and Lone Rock Beach
Photograph courtesy of the National Park Service

Glen Canyon National Recreation Area

Socioeconomic Monitoring Pilot Implementation

Summer 2016

Natural Resource Report NPS/GLCA/NRR—2018/1855

Resource Systems Group (RSG)

55 Railroad Row

White River Junction, VT 05001

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Contents

	Page
Figures.....	vii
Tables	xii
Appendices.....	xix
Executive Summary	xx
Acknowledgments.....	xxiii
List of Terms.....	xxiii
Introduction.....	1
Organization of Report	1
Presentation of the Results	2
Methods.....	3
Survey Method	3
Sampling Effort	3
Questionnaire Design	4
Sampling Procedures	5
Sampling Results	7
Data Entry and Cleaning	7
Non-Response Bias	8
Weighting of Survey Response Data.....	12
Data Analysis.....	12
Limitations.....	13
Special Conditions.....	13
Results.....	14
Group and Visitor Characteristics	14
Visitor group size	14
Number of adults within group.....	15
Number of children within group	16

Contents (continued)

	Page
Visitor group type.....	17
Visitor age	18
Visitor gender	20
Visitor ethnicity	21
Visitor race	22
Visitor speaking language	23
Visitor reading language.....	24
U.S. visitors' state of residence	25
International visitors' country of residence	27
Live in nearby area	29
Visitor level of education	31
Household income	32
Household size.....	33
Frequency of visits to park	34
Frequency of visits to other National Park Service sites	35
Pre-Trip Planning and Experience.....	36
Information sources prior to visit	36
Information needed.....	38
Forms of transportation	39
Number of people in vehicle	40
Water-based transportation.....	41
Hours traveled to park	42
Miles traveled to park.....	43
Role of park visit in trip away from home.....	44
Role of park visit in trip away from home, if not primary or sole purpose for trip.....	45
Reasons for visiting the park on this trip	47

Contents (continued)

	Page
Most important reason for visiting on this trip	56
Park Experience and Activities	58
Type of entrance fee applied	58
Length of stay in Glen Canyon NRA	59
Days entered or re-entered park	61
Overnight stay	62
Nights spent in overnight accommodations.....	63
Visits to other National Park Service sites	71
Other National Park Service sites visited	72
Activity participation.....	74
Primary activity on this trip	76
Visitors with physical conditions	78
Programs and services participation.....	81
Learning from park staff, programs, and/or exhibits.....	83
Learning about subjects on future visits	85
Expenditures	87
Purchase of package tour(s).....	87
Items included in package tour(s) as a part of visit	91
Total expenditures inside Glen Canyon NRA and nearby area.....	93
Percentages of total expenditures inside park and nearby area	94
Number of people covered by expenses	96
Adults covered by expenses	97
Children covered by expenses	98
Sharing of expenses.....	99
Total expenditures outside of park and nearby area	100
Evaluations of Park Experience and Post-Trip Experience.....	101

Contents (continued)

	Page
Aspects most liked about visit to Glen Canyon NRA	101
Aspects least liked about visit to Glen Canyon NRA.....	103
Expectations for visit to Glen Canyon NRA	104
Importance of use of personal electronic devices.....	106
Quality of service required to use personal electronic devices	108
Mean scores of importance and quality ratings for use of personal electronic devices	110
Safety	111
Crowding	112
Condition of natural resources.....	113
Entrance fee	114
Vandalism and crime	115
Accessibility	116
Condition of historical and cultural features	117
Development of adjacent areas.....	118
Quality of facilities, services, and recreational opportunities	119
Services used	127
Overall quality of facilities, services, and recreational opportunities	128
Opinion of national significance of park	129
Visitor Comments.....	131
Additional comments.....	131
Literature Cited	133

Figures

	Page
Figure 1. Example figure.....	2
Figure 2. Visitor group size.....	14
Figure 3. Number of adults within group.....	15
Figure 4. Number of children within group.	16
Figure 5. Visitor group type.	17
Figure 6. Visitor age.....	19
Figure 7. Visitor gender.	20
Figure 8. Visitor ethnicity.	21
Figure 9. Visitor race.....	22
Figure 10. Preferred speaking language.....	23
Figure 11. Preferred reading language.	24
Figure 12. Proportion of U.S. visitors by state of residence.	26
Figure 13. Visitors who live in nearby area.	29
Figure 14. Map of Glen Canyon NRA and nearby area.....	30
Figure 15. Visitor level of education.....	31
Figure 16. Annual household income.	32
Figure 17. Size of household.....	33
Figure 18. Park visits in last 12 months.	34
Figure 19. Other NPS site visits in last 12 months.	35
Figure 20. Visitor groups that obtained information about the park prior to visit.	36
Figure 21. Information sources used prior to trip.	37
Figure 22. Had information needed on this trip.	38
Figure 23. Transportation used to travel to park.	39
Figure 24. Number of passengers in car, truck or SUV.	40
Figure 25. Water-based transportation used to travel to park.	41
Figure 26. Hours traveled one-way to park.....	42

Figures (continued)

	Page
Figure 27. Miles traveled one-way to park.	43
Figure 28. Role of park visit in trip away from home.....	44
Figure 29. Location of other equally important destinations.	45
Figure 30. Location of primary destination if spur of the moment trip.	46
Figure 31. Reasons for visiting the park this trip.	48
Figure 32. Importance of viewing wildlife or natural scenery.....	49
Figure 33. Importance of relaxing.....	49
Figure 34. Importance of being outdoors.	50
Figure 35. Importance of spending time with friends/family.....	50
Figure 36. Importance of hearing the sounds of nature/quiet.	51
Figure 37. Importance of visiting an NPS site.	51
Figure 38. Importance of learning more about nature.....	52
Figure 39. Importance of experiencing solitude.	52
Figure 40. Importance of getting physical exercise.	53
Figure 41. Importance of learning more about American history/culture.....	53
Figure 42. Importance of viewing dark night sky/stars.....	54
Figure 43. Importance of experiencing wilderness.	54
Figure 44. Importance of exploring/seeking adventure.	55
Figure 45. Importance of attending a special event.	55
Figure 46. Most important reason for visiting the park on this trip.	57
Figure 47. Entrance fees that applied to visitor groups.....	58
Figure 48. Number of hours visiting the park by groups who spent less than 24 hours in the park.....	59
Figure 49. Number of days visiting the park by groups who spent 24 hours or more in the park.	60
Figure 50. Number of days entered or re-entered park.	61

Figures (continued)

	Page
Figure 51. Visitors who stayed overnight in/near Glen Canyon NRA.....	62
Figure 52. Accommodations for nights spent in Glen Canyon NRA or the nearby area.....	63
Figure 53. Nights spent in backcountry in Glen Canyon NRA.....	64
Figure 54. Nights spent in backcountry in Glen Canyon NRA.....	65
Figure 55. Nights spent camping outside Glen Canyon NRA.	66
Figure 56. Nights spent camping outside Glen Canyon NRA.	67
Figure 57. Nights spent in lodging in Glen Canyon NRA.	68
Figure 58. Nights spent in lodging outside Glen Canyon NRA.....	69
Figure 59. Nights in other accommodations (e.g., friends/relatives).	70
Figure 60. Visited other NPS sites on trip away from home.....	71
Figure 61. Participation in activities on this trip.	75
Figure 62. Primary activity on this trip to Glen Canyon NRA.	77
Figure 63. Visitors with physical conditions.....	78
Figure 64. Specific difficulties had by visitor group member(s).	80
Figure 65. Participation in programs and services.	82
Figure 66. Visitors who learned something from park staff, programs, and/or exhibits.	83
Figure 67. Visitors who would like to learn about specific subjects on future visits.....	85
Figure 68. Visitor groups with member(s) who purchased packaged tour(s).	87
Figure 69. Total length of package tour(s) purchased by at least one group member.	88
Figure 70. Total cost per person for package tour(s) purchased by at least one group member.	89
Figure 71. Number of group members on package tour(s) purchased by at least one group member.	90
Figure 72. Items included in package tour(s) purchased by at least one group member.	92
Figure 73. Total expenditures inside the park and in nearby area.....	93
Figure 74. Percentages of total expenditures within the park and nearby area.	95

Figures (continued)

	Page
Figure 75. Visitors covered by expenses.....	96
Figure 76. Adults covered by expenses.....	97
Figure 77. Children covered by expenses.	98
Figure 78. Sharing of expenses in visitor group.	99
Figure 79. Total expenditures outside of park and nearby area.	100
Figure 80. Meeting of expectations for visit on this trip.	104
Figure 81. Importance of using personal electronic devices.....	107
Figure 82. Quality of service required to use personal electronic devices.....	109
Figure 83. Mean scores for importance and quality ratings for use of personal electronic devices.....	110
Figure 84. Extent of agreement/disagreement with statement on safety of Glen Canyon NRA.	111
Figure 85. Extent of agreement/disagreement with statement on crowding in Glen Canyon NRA.....	112
Figure 86. Extent of agreement/disagreement with statement on condition of natural resources in Glen Canyon NRA.....	113
Figure 87. Extent of agreement/disagreement with statement on entrance fee for Glen Canyon NRA.....	114
Figure 88. Extent of agreement/disagreement with statement on vandalism and crime in Glen Canyon NRA.	115
Figure 89. Extent of agreement/disagreement with statement on accessibility of Glen Canyon NRA.....	116
Figure 90. Extent of agreement/disagreement with statement on condition of historical and cultural features in Glen Canyon NRA.	117
Figure 91. Extent of agreement/disagreement with statement on development of adjacent areas near Glen Canyon NRA.	118
Figure 92. Quality of facilities, services, and recreational opportunities.....	120
Figure 93. Quality of visitor center.	121

Figures (continued)

	Page
Figure 94. Quality of outdoor recreation (sightseeing, camping, bicycling, boating, hiking, etc.).	121
Figure 95. Quality of value for entrance fee paid.	122
Figure 96. Quality of ranger programs.	122
Figure 97. Quality of exhibits (indoor and outdoor).	123
Figure 98. Quality of assistance from park employees.	123
Figure 99. Quality of park map or brochure.	124
Figure 100. Quality learning about nature, history, or culture.	124
Figure 101. Quality of walkways, trails, and roads.	125
Figure 102. Quality of campgrounds and/or picnic areas.	125
Figure 103. Quality of restrooms.	126
Figure 104. Quality of commercial services in the park.	126
Figure 105. Overall rating of facilities, services, and recreational opportunities.	128
Figure 106. Carl Hayden Visitor Center sampling location.	214
Figure 107. Horseshoe Bend sampling location.	214
Figure 108. Hite Area sampling location.	216
Figure 109. Lone Rock sampling location.	217
Figure 110. Wahweap South Entrance sampling location.	217
Figure 111. Lee's Ferry sampling location.	218
Figure 112. Bullfrog Marina Entrance sampling location.	218

Tables

	Page
Table 1. Sampling effort.....	4
Table 2. Sampling effort, continued.....	4
Table 3. Number of questionnaires distributed, by sampling location.....	5
Table 4. Follow-up mailing distribution.....	6
Table 5. Number of completed questionnaires, by sampling location.....	7
Table 6. Number and percentage of respondents and non-respondents with valid values for non-response variables.....	9
Table 7. Initial contact gender comparison between respondents and non-respondents. (Chi-square p-value is 0.0691 ¹).	10
Table 8. Number of adult group members comparison between respondents and non- respondents (Chi-square p-value is 0.0441 ¹).	10
Table 9. Number of children in group comparison between respondents and non- respondents (Chi-square p-value is 0.7431 ¹).	11
Table 10. Group type comparison between respondents and non-respondents (Chi-square p-value is 0.0371 ¹).	11
Table 11. Visit length comparison for respondents and non-respondents (Chi-square p- value is 0.036 ¹).....	11
Table 12. State or country of residence comparison for respondents and non-respondents (Chi-square p-value is 0.065 ¹).	12
Table 13. United States visitors by state of residence.....	25
Table 14. International visitors by country of residence.....	27
Table 15. Information needed	38
Table 16. Other National Park Service sites visited	72
Table 17. Activities/services/facilities difficult to participate in/access	79
Table 18. Subjects learned.....	84
Table 19. Subjects visitors would like to learn.	86
Table 20. Aspects most liked about visit.....	101
Table 21. Aspects least liked about visit.....	103

Tables (continued)

	Page
Table 22. Reasons expectations were "not entirely" met	105
Table 23. Services use	127
Table 24. Opinions of national significance of park	129
Table 25. Additional comments about facilities, services, or recreational opportunities.....	131
Table 26. Mean/median/standard deviation of selected variables.....	135
Table 27. Unweighted and weighted results, Question 1, Group size.....	176
Table 28. Unweighted and weighted results, Question 1, Number of adults in group.....	176
Table 29. Unweighted and weighted results, Question 1, Number of children in group.	176
Table 30. Unweighted and weighted results, Question 2, Group type.	177
Table 31. Unweighted and weighted results, Question 34, Age.	177
Table 32. Unweighted and weighted results, Question 35, Gender.	178
Table 33. Unweighted and weighted results, Question 35, Hispanic or Latino.	178
Table 34. Unweighted and weighted results, Question 36, Race.	178
Table 35. Unweighted and weighted results, Question 40, Speaking language.....	178
Table 36. Unweighted and weighted results, Question 40, Reading language.	179
Table 37. Unweighted and weighted results, Question 26, Live within the nearby area.	179
Table 38. Unweighted and weighted results, Question 37, Highest level of formal education completed.	179
Table 39. Unweighted and weighted results, Question 38, Household income.	180
Table 40. Unweighted and weighted results, Question 39, Household size.....	180
Table 41. Unweighted and weighted results, Question 34, Number of visits to park in last 12 months.....	180
Table 42. Unweighted and weighted results, Question 34, Number of visits to other NPS sites in the last 12 months.	181
Table 43. Unweighted and weighted results, Question 8, Obtained information.....	181
Table 44. Unweighted and weighted results, Question 8, Information Sources.	181
Table 45. Unweighted and weighted results, Question 9, Had information needed.	182

Tables (continued)

	Page
Table 46. Unweighted and weighted results, Question 3, Form of transportation.	182
Table 47. Unweighted and weighted results, Question 3, Number of passengers.	183
Table 48. Unweighted and weighted results, Question 3, Form of water transportation.	183
Table 49. Unweighted and weighted results, Question 4, Number of hours traveled.	183
Table 50. Unweighted and weighted results, Question 4, Number of miles traveled.	184
Table 51. Unweighted and weighted results, Question 28, Purpose of trip to Glen Canyon NRA.	184
Table 52. Unweighted and weighted results, Question 28, Other equally important destinations located within nearby area.	185
Table 53. Unweighted and weighted results, Question 28, Primary destination located within the nearby area.	185
Table 54. Unweighted and weighted results, Question 10, Summary of Important reasons for visiting Glen Canyon NRA on this trip, sum of Extremely Important and Very Important responses.	185
Table 55. Unweighted and weighted results, Question 10, Importance of viewing wildlife or natural scenery.	186
Table 56. Unweighted and weighted results, Question 10, Importance of learning more about nature.	186
Table 57. Unweighted and weighted results, Question 10, Importance of spending time with friends/family.	187
Table 58. Unweighted and weighted results, Question 10, Importance of being outdoors.	187
Table 59. Unweighted and weighted results, Question 10, Importance of hearing the sounds of nature/quiet.	187
Table 60. Unweighted and weighted results, Question 10, Importance of relaxing.	188
Table 61. Unweighted and weighted results, Question 10, Importance of visiting an NPS site.	188
Table 62. Unweighted and weighted results, Question 10, Importance of learning more about American history and culture.	188
Table 63. Unweighted and weighted results, Question 10, Importance of experiencing solitude.	189

Tables (continued)

	Page
Table 64. Unweighted and weighted results, Question 10, Importance of viewing dark night sky/stars.	189
Table 65. Unweighted and weighted results, Question 10, Importance of getting physical exercise.	189
Table 66. Unweighted and weighted results, Question 10, Importance of attending a special event.	190
Table 67. Unweighted and weighted results, Question 10, Importance of exploring/seeking adventure.	190
Table 68. Unweighted and weighted results, Question 10, Importance of experiencing wilderness.	190
Table 69. Unweighted and weighted results, Question 11, Most important reason for visiting Glen Canyon NRA on this trip.	191
Table 70. Unweighted and weighted results, Question 5, Entrance fee.	191
Table 71. Unweighted and weighted results, Question 7, Number of hours in park.	192
Table 72. Unweighted and weighted results, Question 7, Number of days in park.	192
Table 73. Unweighted and weighted results, Question 6, Number of days enter/re-enter park.	193
Table 74. Unweighted and weighted results, Question 27, Stay overnight.	193
Table 75. Unweighted and weighted results, Question 27, Accommodation.	193
Table 76. Unweighted and weighted results, Question 27, Number of nights backcountry camping in Glen Canyon NRA.	194
Table 77. Unweighted and weighted results, Question 27, Number of nights camping in Glen Canyon NRA.	194
Table 78. Unweighted and weighted results, Question 27, Number of nights camping outside Glen Canyon NRA.	194
Table 79. Unweighted and weighted results, Question 27, Number of nights houseboating in Glen Canyon NRA.	195
Table 80. Unweighted and weighted results, Question 27, Number of nights lodging in Glen Canyon NRA.	195

Tables (continued)

	Page
Table 81. Unweighted and weighted results, Question 27, Number of nights lodging outside Glen Canyon NRA	195
Table 82. Unweighted and weighted results, Question 27, Number of nights in other accommodations.	196
Table 83. Unweighted and weighted results, Question 29, Visit other NPS sites on trip away from home.	196
Table 84. Unweighted and weighted results, Question 12, Activity participation.	196
Table 85. Unweighted and weighted results, Question 13, Primary activity.	197
Table 86. Unweighted and weighted results, Question 18, Member in group with physical condition.	198
Table 87. Unweighted and weighted results, Question 18, Difficulty.	199
Table 88. Unweighted and weighted results, Question 14, Program/service participation.	199
Table 89. Unweighted and weighted results, Question 15, Learned from staff, programs, and/or exhibits.	200
Table 90. Unweighted and weighted results, Question 16, Desire to learn about subjects.	200
Table 91. Unweighted and weighted results, Question 30, Purchase package tour(s).	200
Table 92. Unweighted and weighted results, Question 30, Number of days of package tour(s).	200
Table 93. Unweighted and weighted results, Question 30, Cost per person of package tour(s).	201
Table 94. Unweighted and weighted results, Question 30, Number of people in group on package tour(s).	201
Table 95. Unweighted and weighted results, Question 30, Included in package tour(s).	201
Table 96. Unweighted and weighted results, Question 31, Total expenditures.	202
Table 97. Unweighted and weighted results, Question 33, Total number of people covered by the expenses for this trip.	202
Table 98. Unweighted and weighted results, Question 33, Number of adults covered by the expenses for this trip.	202

Tables (continued)

	Page
Table 99. Unweighted and weighted results, Question 33, Number of children covered by the expenses for this trip.	203
Table 100. Unweighted and weighted results, Question 33, Number of people in group who split trip expenses.	203
Table 101. Unweighted and weighted results, Question 32, Out of area expenses.	203
Table 102. Unweighted and weighted results, Question 21, Visit met expectations.	204
Table 103. Unweighted and weighted results, Question 17, Extremely or very important to use personal electronic devices to do specific tasks.	204
Table 104. Unweighted and weighted results, Question 17, Good or very good quality of service required to do specific tasks.	204
Table 105. Unweighted and weighted results, Question 22, Glen Canyon NRA is a safe place to visit.	205
Table 106. Unweighted and weighted results, Question 22, Glen Canyon NRA is too crowded.	205
Table 107. Unweighted and weighted results, Question 22, Natural resources in Glen Canyon NRA are in pristine condition.	206
Table 108. Unweighted and weighted results, Question 22, The entrance fee for Glen Canyon NRA is too high.	206
Table 109. Unweighted and weighted results, Question 22, Vandalism and crime are not a problem in Glen Canyon NRA.	206
Table 110. Unweighted and weighted results, Question 22, Glen Canyon NRA is not accessible to persons with physical disabilities.	207
Table 111. Unweighted and weighted results, Question 22, Historical and cultural features in Glen Canyon NRA are well maintained/preserved.	207
Table 112. Unweighted and weighted results, Question 22, Development of adjacent areas detracts from visitors' experiences at Glen Canyon NRA.	207
Table 113. Unweighted and weighted results, Question 23, Quality of the facilities, services, and recreational opportunities in Glen Canyon NRA, sum of Very Good and Good responses.	208
Table 114. Unweighted and weighted results, Question 23, Quality of learning about nature, history, or culture.	208

Tables (continued)

	Page
Table 115. Unweighted and weighted results, Question 23, Quality of ranger programs.	209
Table 116. Unweighted and weighted results, Question 23, Quality of outdoor recreation.	209
Table 117. Unweighted and weighted results, Question 23, Quality of assistance from park employees.	209
Table 118. Unweighted and weighted results, Question 23, Quality of park map or brochure.	210
Table 119. Unweighted and weighted results, Question 23, Quality of value for entrance fee paid.	210
Table 120. Unweighted and weighted results, Question 23, Quality of walkways, trails, and roads.	210
Table 121. Unweighted and weighted results, Question 23, Quality of visitor center.	211
Table 122. Unweighted and weighted results, Question 23, Quality of exhibits.	211
Table 123. Unweighted and weighted results, Question 23, Quality of restrooms.	211
Table 124. Unweighted and weighted results, Question 23, Quality of campgrounds and/or picnic areas.	212
Table 125. Unweighted and weighted results, Question 23, Quality of commercial services in the park.	212
Table 126. Unweighted and weighted results, Question 24, Overall quality of the facilities, services, and recreational opportunities in Glen Canyon NRA.	212

Appendices

	Page
Appendix 1. Descriptive Statistics	135
Appendix 2. The Questionnaire	146
Appendix 3. The Thank You/Reminder Postcard	173
Appendix 4. The Replacement Mailing Cover Letter	175
Appendix 5. Tabular Unweighted and Weighted Results	176
Appendix 6. Detailed Sampling Procedures	213

Executive Summary

- This report describes the results of a visitor study at Glen Canyon National Recreation Area (NRA) conducted from June 18 through June 26, 2016. During the sampling period, 786 visitor groups were contacted to participate in the survey. Of those groups, 660 agreed to participate in the study by accepting a mail-back survey packet. Questionnaires were completed and returned by 296 visitor groups, resulting in a completion rate of 45% among those visitor groups that agreed to participate in the study and an overall response rate of 38% for the study.
- This report profiles a systematic sample of Glen Canyon NRA visitors. Most of the results are presented in graphs and frequency tables. Summaries of visitor comments are included in the body of the report. Verbatim comments are included in the Visitor Comment Appendix (bound separately).
- Thirty-seven percent of visitor groups were groups of two, and 32% of visitor groups were groups of five or more members. Over half of visitor groups (57%) identified as groups of family.
- Twelve percent of visitors were 65 years old or older, 15% of visitors were 55 to 64 years old, 27% of visitors were 35 to 54 years old, 26% of visitors were 18 to 34 years old, and 20% of visitors were under 18 years old.
- Hispanic or Latino visitors comprised 6% of visitation during the survey period. Most visitors (88%) were white. Fewer visitors were Asian (9%), American Indian or Alaska Native (3%), black or African American (<1%), or Native Hawaiian or other Pacific Islander (<1%).
- Nearly all visitor groups preferred to speak (96%) and read (96%) English when visiting an area such as Glen Canyon NRA.
- Individuals from the United States comprised 87% of total visitation during the survey period. At the state level, 23% of visitors were from Arizona, 20% of visitors were from Utah, and smaller proportions of visitors were from 34 other states. International visitors comprised 13% of total visitation with 16% of international visitors from Germany, 16% from Switzerland, 8% from China, and smaller proportions of visitors from 16 other countries.
- Seventy percent of visitors indicated having visited the park only once during the last 12 months. Twenty-one percent of visitors had visited another National Park Service (NPS) site once in the past 12 months and 21% of visitors had visited five or more NPS sites within the past 12 months. Twenty percent of visitors had not visited another NPS site within the past 12 months.
- Eighty-four percent of visitor groups obtained information about Glen Canyon NRA prior to this trip. The most commonly reported information sources used were previous visits (44%), friends/relatives/word of mouth (27%), and the park website (23%). The vast majority (92%) of visitor groups had the information they needed about Glen Canyon NRA for their trip.

- Ninety-two percent of visitor groups used a car, truck, or SUV to get from their home to the park. Forty-eight percent of visitor groups spent up to six hours traveling from their home to the park. Thirty-one percent of visitor groups traveled 251 to 500 miles from their home to get to the park.
- Forty-nine percent of visitor groups indicated that visiting Glen Canyon NRA was one of several equally important destinations on their trip away from home. Forty-three percent of visitor groups indicated that visiting Glen Canyon NRA was the primary or sole purpose of their trip.
- The most important reasons for visitors to visit Glen Canyon NRA included to spend time with friends/family (37% of visitor groups) and to view wildlife or natural scenery (26% of visitor groups). Twenty-five percent of visitor groups reported that viewing wildlife, natural features, scenery, wildflowers, or other aspects of natural scenery was their primary activity. Twenty-four percent reported that motorized water travel was their primary activity and fifteen percent of visitor groups reported having no primary activity.
- Seventy-six percent of visitors stayed overnight in the park or in the nearby area. Thirty-seven percent of those visitors who stayed overnight stayed in lodging outside Glen Canyon NRA. Over half (58%) of visitor groups visited another NPS site on their trip away from home. The most commonly reported NPS sites visited other than Glen Canyon NRA were Grand Canyon National Park, Zion National Park and Bryce Canyon National Park.
- The vast majority of visitor groups (96%) indicated that no one in their group had a physical condition that made it difficult to access or participate in activities or services during their visit. Of those visitor groups that did have a group member with a physical condition, the mostly commonly reported physical condition was a mobility-related condition (84%). Moreover, 42% of visitor groups neither agreed nor disagreed that Glen Canyon NRA is not accessible to persons with physical disabilities, although 32% disagreed with this statement.
- Approximately half (52%) of visitor groups went to the visitor center, 40% read the park brochure or newspaper and 36% viewed outdoor exhibits. Thirty-three percent of visitor groups reported that they learned something from park staff, programs, and/or exhibits about American history, nature, and/or culture.
- Seventeen percent of visitor groups reported that someone within their group purchased a package tour that included meals, lodging and/or transportation while on their trip to Glen Canyon NRA.
- Thirty-nine percent of visitor groups spent up to \$500 on expenditures inside the park and nearby area, excluding package tour expenses, and 21% spent \$2,001 or more. The expenditure sectors where visitor groups spent the largest proportions of money (excluding package tour expenses) included hotels, motels, resorts (19% of expenditures), gas/oil (14 of expenditures), and boat and houseboat rental (12% of expenditures).
- The vast majority of visitor groups (91%) reported that their visit to Glen Canyon NRA met their expectations.

- The vast majority (90%) of visitor groups agreed that Glen Canyon NRA is a safe place to visit. Sixty-two percent agreed that vandalism and crime are not a problem in Glen Canyon NRA.
- Seventy percent of visitor groups agreed that natural resources in Glen Canyon NRA are in pristine condition. Seventy-nine percent of visitor groups agreed that historical and cultural features in Glen Canyon NRA are well maintained/preserved. Over half (55%) of visitor groups disagreed that development of adjacent areas detracts from visitors' experiences at Glen Canyon NRA. Nearly half (46%) of visitor groups disagreed that Glen Canyon NRA is too crowded.
- Less than one quarter (23%) of visitor groups agreed that the entrance fee to Glen Canyon NRA is too high.
- Overall, visitor groups rated the quality of facilities, services, and recreation opportunities in Glen Canyon NRA highly. Eighty-nine percent of visitor groups rated the overall quality as good or very good.

Acknowledgments

We thank the staff of Glen Canyon National Recreation Area and the National Park Service's Social Science Program for their assistance and support with this visitor use study.

List of Terms

NPS: National Park Service

NRA: National Recreation Area

RSG: Resource Systems Group, Inc.

SEM: Socioeconomic Monitoring

SSP: Social Science Program

VSP: Visitor Services Project

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Introduction

During 2015 through 2016, the National Park Service (NPS) Social Science Program (SSP) conducted pilot implementation of an in-park Socioeconomic Monitoring (SEM) visitor survey in several units of the National Park System. This report describes the results of pilot implementation of the SEM visitor survey at Glen Canyon National Recreation Area (NRA) from June 18 through June 26, 2016. The study was conducted by RSG, under a contract with the NPS SSP.

Organization of Report

This report is organized into three sections

Section 1: Methods This section discusses the procedures, limitations, and special conditions that may affect the results of this study.

Section 2: Results This section provides summary information for each question in the questionnaire and includes a summary of visitor comments. The results are organized by topic areas, starting with visitor and visitor group characteristics, followed by results of questions related to pre-arrival, onsite, and post-trip stages of park visits.

Section 3: Appendices

Appendix 1. *Descriptive Statistics*. Descriptive statistics for those variables for which measures of central tendency can be computed.

Appendix 2. *The Questionnaire*. A copy of the questionnaire distributed to visitor groups.

Appendix 3. *The Thank You/Reminder Postcard*. A copy of the thank you/reminder postcard mailed to visitor groups.

Appendix 4. *The Replacement Mailing Cover Letter*. A copy of the replacement mailing cover letter mailed to visitor groups.

Appendix 5. *Unweighted and Weighted Frequencies*. Tabular summaries of unweighted and weighted survey results.

Appendix 6. *Detailed Sampling Procedures*. A detailed description of sampling locations and procedures.

Visitor Comments Appendix (separate document). Visitor responses to open-ended questions. Bound separately due to appendix length.

Presentation of the Results

Results are represented in the form of graphs (see Figure 1 below), scatter plots, pie charts, tables, or text.

SAMPLE ONLY

1. The figure title describes the graph's information.
2. Listed above the graph, the "N" shows the number of individuals or visitor groups responding to the question. The phrase **"CAUTION: Number of respondents less than 30 visitor groups"** is shown on the graph to indicate the results are unreliable due to low sample size.
 - * appears when total percentages do not equal 100 due to rounding.
 - ** appears when total percentages do not equal 100 because visitors could select more than one answer choice.
3. Vertical information (y-axis) describes the response categories.
4. Horizontal information (x-axis) shows the number or proportion of responses in each category.
5. The proportion of visitor groups/visitors who responded to each category.

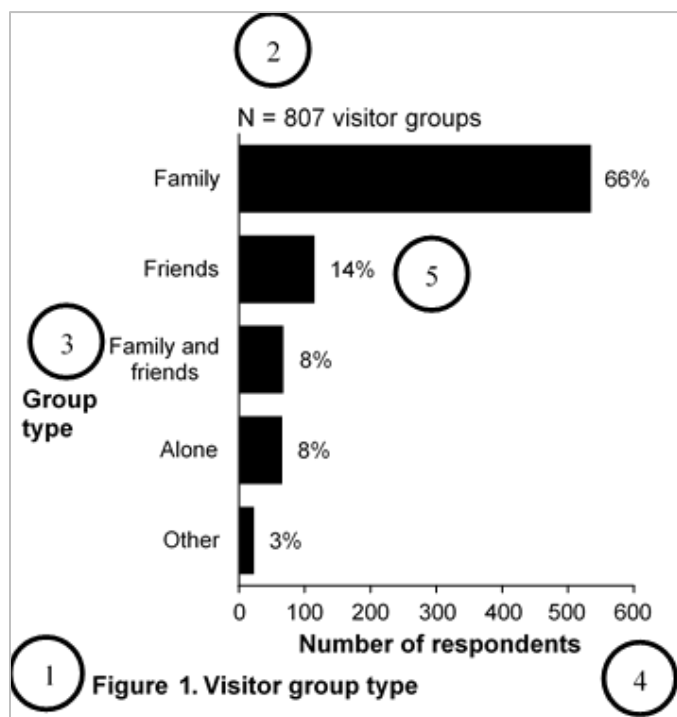


Figure 1. Example figure.

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Methods

Survey Method

The SEM visitor survey was administered at Glen Canyon NRA as a personally delivered self-administered mail-back survey, following the principles outlined in Don A. Dillman's book *Internet, Phone, Mail, and Mixed-Mode Surveys: The Tailored Design Method* (2014). The survey method included three phases: 1) onsite distribution of a booklet-sized questionnaire, 2) a color-picture reminder postcard mailing, and 3) one replacement mailing of a booklet-sized questionnaire for those participants that had not yet returned a completed questionnaire. The study population included visitor groups with at least one group member 18 years of age or older in Glen Canyon NRA during the study period. The target margin of error for summary statistics of no greater than $\pm 5\%$ (Fowler, 1993) was used to establish the target sample size at 400 completed questionnaires.

Sampling Effort

The SEM visitor survey was administered at Glen Canyon NRA from June 18 through June 26, 2016. The survey administration dates were selected to target peak use at the park. The peak use month was identified using the five-year average of monthly visitation data for Glen Canyon NRA available from the NPS Public Use Statistics Office. Within the peak use month, the survey administration dates were selected to include both weekdays and weekend days.

The list of sampling locations was selected through an iterative, data-driven process. A list of potential sampling locations was compiled using three primary information sources. First, previously conducted visitor use studies and/or survey research were consulted for locations that had been sampled previously. Second, the sampling locations for collection of NPS Public Use Statistics Office visitation data were consulted for potential additional sampling locations. Third, the park's website and other popular trip planning resources for Glen Canyon NRA were consulted to ensure that popular visitor locations were not inadvertently excluded from the list of potential sampling locations. The list of potential sampling locations was reduced through consideration of feasibility for survey administration and coverage of the range of user types at Glen Canyon NRA. The refined list of sampling locations was finalized through consultation with the NPS SSP and Glen Canyon NRA staff. The SEM visitor survey was administered at seven locations in the park: Lone Rock Beach, Wahweap South Entrance, Carl Hayden Visitor Center, Horseshoe Bend, Lee's Ferry, Bullfrog Marina Entrance, and the Hite Area. At the park's request, the Escalante Interagency Visitor Center was included as a sampling location, however, park staffing constraints prevented results from this location from being included in the study analysis and results.

The SEM visitor survey was administered for a select range of hours on each sampling day. The hours of survey administration varied among sampling days to capture the range of user types at Glen Canyon NRA and maximize sampling efficiency. At the Carl Hayden Visitor Center specifically, sampling coincided with the hours of operation of the facility. The final sampling effort is presented in Table 1 and Table 2.

Table 1. Sampling effort.

Date	Lone Rock	Wahweap South Entrance	Carl Hayden Visitor Center	Horseshoe Bend
Saturday, June 18	—	7:00AM-3:00PM	—	—
Sunday, June 19	10:00AM-6:00PM	—	8:00AM-12:00PM/ 2:00PM-6:00PM	7:00AM-11:00AM/ 2:00PM-6:00PM
Monday, June 20	—	7:00AM-3:00PM	—	—
Tuesday, June 21	10:00AM-6:00PM	—	8:00AM-12:00PM/ 2:00PM-6:00PM	7:00AM-11:00AM/ 2:00PM-6:00PM
Wednesday, June 22	10:00AM-6:00PM	—	8:00AM-12:00PM/ 2:00PM-6:00PM	7:00AM-11:00AM/ 2:00PM-6:00PM
Thursday, June 23	—	7:00AM-3:00PM	—	—
Friday, June 24	—	—	—	—
Saturday, June 25	—	—	—	—
Sunday, June 26	—	—	—	—

Table 2. Sampling effort, continued.

Date	Lee's Ferry	Bullfrog Marina Entrance	Hite Area
Saturday, June 18	7:00AM-3:00PM	—	—
Sunday, June 19	—	—	—
Monday, June 20	7:00AM-3:00PM	—	—
Tuesday, June 21	—	—	—
Wednesday, June 22	—	—	—
Thursday, June 23	7:00AM-3:00PM	—	—
Friday, June 24	—	7:00AM-3:00PM	10:00AM-5:00PM
Saturday, June 25	—	7:00AM-3:00PM	10:00AM-5:00PM
Sunday, June 26	—	7:00AM-3:00PM	10:00AM-5:00PM

Questionnaire Design

The SEM questionnaire is a standardized survey instrument designed to gather system-wide information at NPS units about visitor and trip characteristics, visitor spending in gateway communities, visitor perceptions of park experiences, visitor attitudes toward park management, and visitor satisfaction with park services and facilities. The questionnaire was developed through a collaborative process between the NPS SSP and RSG. All of the questions included in the SEM

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questionnaire were selected from the NPS Programmatic Information Collection Review Pool of Known Questions. The majority of the questions included in the SEM survey instrument ask visitors to choose answers from a list of response options, providing an open-ended option, where appropriate, to ensure that question prompts allowed for inclusive answers. A few questions were completely open-ended to collect unprompted responses from visitors in their own words. The questionnaire was reviewed and approved by the Office of Management and Budget (OMB), and correspondingly conforms to OMB standards and guidelines for questionnaire design. Glen Canyon NRA staff were asked to review the SEM questionnaire to provide guidance on park-specific tailoring of question prompts to ensure consistency of the survey instrument with park policies, programs, services, and activities. The questionnaire was administered to visitors in English (Appendix 2).

Sampling Procedures

Mail-back survey packets were administered to visitor groups in Glen Canyon NRA using onsite intercept methods (see Appendix 6 for detailed descriptions of how visitors were selected at each sample location). Each contacted visitor group was greeted, introduced to the purpose of the study, and asked to participate. If a visitor group agreed to participate, they were asked which member of the group (at least 18 years old) had the next birthday; the individual with the next birthday was asked to complete the questionnaire for the group. This was done in order to randomize selection of the individual within the group to complete the questionnaire.

Individuals who agreed to complete the questionnaire were asked to provide their name and mailing address. This information was used to send follow-up mailings according to Dillman's (2014) mail-back survey methods. Participating visitors were then administered a mail-back survey packet, which included a booklet-sized questionnaire placed inside of a pre-addressed envelope affixed with a U.S. first class postage stamp. Visitors were asked to complete the questionnaire after completing their trip to the park and to return the questionnaire by mail using the self-addressed postage-paid envelope provided. International visitors were asked to mail their completed questionnaires before leaving the country due to the U.S. first class postage affixed to the return envelope. Table 3 summarizes the survey effort by sampling location.

Table 3. Number of questionnaires distributed, by sampling location.

Sampling Site	Sampling Date									Total questionnaires distributed	
	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	N	%
Lone Rock	–	24	–	23	27	–	–	–	–	74	11%
Wahweap South Entrance	38	–	45	–	–	55	–	–	–	138	21%
Carl Hayden Visitor Center	–	43	–	44	44	–	–	–	–	131	20%

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Table 3 (continued). Number of questionnaires distributed, by sampling location.

Sampling Site	Sampling Date									Total questionnaires distributed	
	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	N	%
Horseshoe Bend	–	41	–	42	40	–	–	–	–	123	19%
Lee's Ferry	27	–	15	–	–	15	–	–	–	57	9%
Bullfrog Marina Entrance	–	–	–	–	–	–	38	47	40	125	19%
Hite Area	–	–	–	–	–	–	2	5	5	12	2%
All Sites	65	108	60	109	111	70	40	52	45	660	100%

Two weeks after field survey administration concluded, all survey participants were sent a color-picture postcard (Appendix 3) thanking them for participating in the study and/or reminding them to complete and return the questionnaire (Table 4). Approximately two weeks after mailing the postcards, a replacement mail-back survey packet was sent to individuals who agreed to participate in the study but had not yet returned their questionnaire (Appendix 4). Two distinct replacement mail-back survey packets were sent, depending on whether the provided address was a U.S. address or an international address. U.S. addresses were sent a packet that included a pre-addressed return envelope affixed with a U.S. first class postage stamp. International addresses were sent a packet that included a pre-addressed return envelope printed with international business reply mail postage.

Table 4. Follow-up mailing distribution.

Mailing	Date	U.S.	International	Total
Postcards	7/12/2016	550	110	660
Replacement Mailing	8/2/2016	402	78	480

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Sampling Results¹

During the sampling period, 786 visitor groups were contacted to participate in the survey. Of these groups, 660 agreed to participate in the study by accepting a mail-back survey packet (84% cooperation rate) (Table 3). Questionnaires were completed and returned by 296 visitor groups (Table 5), resulting in a completion rate of 45% among those visitor groups that agreed to participate in the study and an overall response rate of 38% for the study.

Table 5. Number of completed questionnaires, by sampling location.

Sampling site	N	Percent
Lone Rock	21	7%
Wahweap South Entrance	58	20%
Carl Hayden Visitor Center	64	22%
Horseshoe Bend	65	22%
Lee's Ferry	28	9%
Bullfrog Marina Entrance	53	18%
Hite Area	7	2%
Total	296	100%

Data Entry and Cleaning

Data from returned questionnaires were entered into a database using Teleform, an optical recognition data coding software application. Each questionnaire was scanned and loaded into Teleform, which automatically coded responses and highlighted potential coding errors. Potential coding errors were reviewed and corrected by research staff. Corrected data were subjected to additional cleaning and proofing using Microsoft Excel and SPSS statistical software. Data cleaning and proofing included identification and correction of invalid values, and complete manual verification of data entry for a randomly selected subset (n=40) of the completed questionnaires for quality assurance.

¹ Sampling results are reported using three metrics: cooperation rate, completion rate, and overall response rate. Cooperation rate is the proportion of onsite acceptances to total onsite contacts. Response rate is the proportion of completed survey questionnaires to total onsite contacts. Calculation of cooperation rate and response rate follow American Association for Public Opinion Research definitions. Completion rate is the proportion of completed survey questionnaires to onsite acceptances — completion rate is the metric in this study that is directly comparable to response rates reported in the Visitor Services Project (VSP) and is therefore included for reference. See Rookey et al. (2012) for a complete description of VSP response rate calculation.

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Non-Response Bias

Non-response bias is the bias that results when respondents differ in meaningful ways from non-respondents. Non-response bias affects the ability to generalize survey results, to some degree and in some ways, from the sample to the study's target population (Salant and Dillman, 1994; Dillman, 2014; Stoop, 2004; Fillion, 1976; Dey, 1997). If non-respondents are found to differ from respondents in meaningful ways, care should be taken when interpreting survey responses, as they may over-represent some segments of the target population to some degree, and may under-represent other segments of the population to some degree.

To check for non-response bias, this study used answers to five, pre-selected non-response bias questions and one observable characteristic of the contacted visitor to compare respondents with non-respondents. After being contacted to participate in the survey, an interview, lasting approximately two minutes, was conducted with all contacted visitor groups regardless of whether or not they agreed to participate in the study. The interview included the following five questions used for evaluation of non-response bias:

1. How many adults, 18 years and older, are in your group?
2. How many children (under 18 years) are in your group?
3. What type of group are you with? Friends, family, friends and family, or some other type of group?
4. How long is this trip to Glen Canyon NRA in total, from beginning to end?
5. What is your state of residence (if you live in the U.S.) or country of residence (if do not live in the U.S.)?

In addition to the five, pre-selected non-response bias questions, the gender of the person in the group who was first contacted by the survey administrator was observed and recorded.

An effort was made to obtain answers to the non-response bias questions from all visitor groups contacted, including those that declined to participate in the survey. Responses were obtained from most of the participating visitor groups and from many, but not all, of those that declined to participate in the study. When the survey administrator was unable to obtain responses to the non-response bias questions, it was because the approached contact refused all further contact from the administrator after the initial refusal, usually with no reason provided. These instances were defined as "hard refusals".

Ideally, responses or observed estimates for non-response bias variables should be collected from all respondents and non-respondents. The collection of information from all contacted individuals provides the best comparison of characteristics between the respondent and non-respondent populations. More practically, a majority of responses or observed estimates must be present to adequately characterize both the respondent and non-respondent populations. In this study, 70% was identified as the minimum percentage of valid values for non-response variables needed for both respondent and non-respondent populations in order to adequately characterize the populations on a

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given non-response variable.² All non-response variables met the minimum for 70% valid values among respondents and/or non-respondents (Table 6). Correspondingly, all variables were used for non-response bias analysis.

Table 6. Number and percentage of respondents and non-respondents with valid values for non-response variables.

Variable	Respondents (n=296)		Non-Respondents (n=490)	
	Valid n	Valid Percent	Valid n	Valid Percent
Initial contact gender	293	99%	486	99%
Number of adults	294	99%	458	93%
Number of children	294	99%	458	93%
Group type	294	99%	455	93%
Visit length	292	99%	454	93%
State or country of residence	294	99%	455	93%

Chi-square tests of independence were used to test for differences between respondents and non-respondents. Values for the number of adults in the visitor group were collapsed into the following four categories: groups with one adult, groups with two adults, groups with three or four adults, and groups with five or more adults. Values for the number of children in the visitor group were collapsed into three categories: no children, one child, and two or more children. Values for group type were collapsed into the following four categories: alone, family, friends, family and friends. Values for visit length were collapsed into four categories: one to three hours, four to 12 hours, 24 to 72 hours, and 96 hours or more. Responses for state or country of residence were collapsed into three categories: in state visitor, out of state visitor, and international visitor.

A Bonferroni correction was applied to account for the fact that six simultaneous statistical tests were conducted with the same data set. The Bonferroni correction minimizes the likelihood of concluding from the results of the statistical tests that there are differences between respondents and non-respondents, when there actually are no differences (i.e., minimizes the probability of making a Type I error). With the Bonferroni correction applied in this analysis, statistical test results with p-values of less than 0.008 are assumed to be statistically significant.

²The Office of Management and Budget Standards and Guidelines for Statistics Surveys (2006) suggest that any survey item with at least 70% non-missing data can be presumed to reflect the entire data set (i.e., for such items, any differences between the subjects with data and those without data are negligible).

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Results of the chi-square tests in Table 7 through Table 12 suggest that respondents and non-respondents do not differ significantly, with respect to initial contact gender ($p = 0.069$), number of adults in their groups ($p = 0.044$), number of children in their groups ($p = 0.743$), visitor group type ($p = 0.037$), length of visit ($p = 0.036$), or state or country of residence ($p = 0.065$). These results provide no compelling evidence of non-response bias related to the initial contact gender, the number of adults in visitor groups, the number of children in visitor groups, visitor group type, length of visit, or state or country of residence within the survey sample.

Table 7. Initial contact gender comparison between respondents and non-respondents. (Chi-square p-value is 0.069¹).

Response	Respondents (n=291)		Non-Respondents (n=486)	
	n	Percent	n	Percent
Male	153	53%	288	59%
Female	138	47%	198	41%

¹ $\alpha = 0.05$, $p \leq 0.008$ indicates significant result following Bonferroni correction to account for multiple non-response bias statistical tests.

Table 8. Number of adult group members comparison between respondents and non-respondents (Chi-square p-value is 0.044¹).

Response	Respondents (n=294)		Non-Respondents (n=461)	
	n	Percent	n	Percent
1 adult	40	14%	40	9%
2 adults	155	53%	227	49%
3 or 4 adults	60	20%	111	24%
5 or more adults	39	13%	83	18%

¹ $\alpha = 0.05$, $p \leq 0.008$ indicates significant result following Bonferroni correction to account for multiple non-response bias statistical tests.

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Table 9. Number of children in group comparison between respondents and non-respondents (Chi-square p-value is 0.7431¹).

Response	Respondents (n=294)		Non-Respondents (n=460)	
	n	Percent	n	Percent
No children	193	66%	293	64%
1 child	23	8%	43	9%
2 or more children	78	27%	124	27%

¹ $\alpha = 0.05$, $p \leq 0.008$ indicates significant result following Bonferroni correction to account for multiple non-response bias statistical tests.

Table 10. Group type comparison between respondents and non-respondents (Chi-square p-value is 0.0371¹).

Response	Respondents (n=294)		Non-Respondents (n=490)	
	n	Percent	N	Percent
Alone	28	10%	68	14%
Family	199	68%	285	58%
Friends	40	14%	92	19%
Family and friends	27	9%	45	9%

¹ $\alpha = 0.05$, $p \leq 0.008$ indicates significant result following Bonferroni correction to account for multiple non-response bias statistical tests.

Table 11. Visit length comparison for respondents and non-respondents (Chi-square p-value is 0.036¹).

Response	Respondents (n=293)		Non-Respondents (n=455)	
	n	Percent	n	Percent
1 to 3 hours	39	13%	88	19%
4 to 12 hours	23	8%	35	8%
24 to 72 hours	169	58%	217	48%
96 hours or more	62	21%	115	25%

¹ $\alpha = 0.05$, $p \leq 0.008$ indicates significant result following Bonferroni correction to account for multiple non-response bias statistical tests.

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Table 12. State or country of residence comparison for respondents and non-respondents (Chi-square p-value is 0.065¹).

Response	Respondents (n=294)		Non-Respondents (n=456)	
	n	Percent	n	Percent
In state visitor	88	30%	130	29%
Out of state visitor	153	52%	211	46%
International visitor	53	18%	115	25%

¹ $\alpha = 0.05$, $p \leq 0.008$ indicates significant result following Bonferroni correction to account for multiple non-response bias statistical tests.

In summary, no significant differences were found between respondents and non-respondents, with respect to initial contact gender, number of adults in group, number of children in group, visitor group type, length of visit, or state or country of residence.

Weighting of Survey Response Data

Visitor groups contacted during non-peak periods and/or at lower use sampling locations had a higher probability of selection for participation in the study than visitor groups contacted during peak periods and/or at higher use sampling locations. To account for these differences in selection probability, the survey data were weighted using counts of visitor volumes collected by survey administrators at each sampling location.

At all sampling locations, visitor count data were collected for four 30-minute time periods during each sampling day at each site. During each 30-minute visitor count period, the number of visitors who entered the sampling location was counted. These count data were used to weight the survey response data, to account for variation in visitor volumes (and corresponding probability of selection for the study) across sampling locations and hours of the day. The main body of the report presents results of the analysis of the weighted survey response data. For reference, frequencies for both the weighted and unweighted survey response data are provided in Appendix 5.

Data Analysis

SPSS statistical software was used for data analysis. For all questions where pre-defined response options were provided, frequencies are reported. For all questions with open-ended response options, verbatim visitor comments are reported in the stand-alone *Visitor Comments Appendix*. For the majority of questions with open-ended response options, thematic codes were applied to the responses to categorize the data. The categorized data are reported in tabular format providing the frequency of occurrence for each theme. In cases where the number of open-ended responses is low, the data are reported in summary bullets rather than in tabular format of categorical results. Descriptive statistics for those variables for which measures of central tendency can be computed are

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presented in Appendix 1. As noted, weighted and unweighted frequencies can be found in Appendix 5.

Limitations

This study has limitations that should be considered when interpreting the results.

1. The survey was self-administered. Respondents completed the questionnaire after an unknown amount of time after the visit, which may have affected recall to some degree. To the extent respondents' recall was affected, it is possible some of their responses may not fully reflect actual behavior.
2. The data reflect visitor use patterns as collected during the study period of June 18 through June 26, 2016. The results present a 'snapshot-in-time' and do not necessarily apply to visitor groups 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, table, or text.
4. Sample size may vary for some questions, due to item non-response (i.e., one or more question left blank by a respondent). Therefore, refer to both the percentage and sample values when interpreting the results.

Special Conditions

The weather during the survey period was mostly hot, dry, and sunny. Temperatures were consistently in the mid to high-90s. An excessive heat warning was in effect during some portions of the sampling period, but did not interfere with survey administration.

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Results

Group and Visitor Characteristics

Visitor group size

Question 1

Including yourself, how many people were in your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey?

Results (Figure 2)

- 37% of visitor groups consisted of two members.
- 32% of visitor groups consisted of five or more members.

See Appendix 1 for more details.

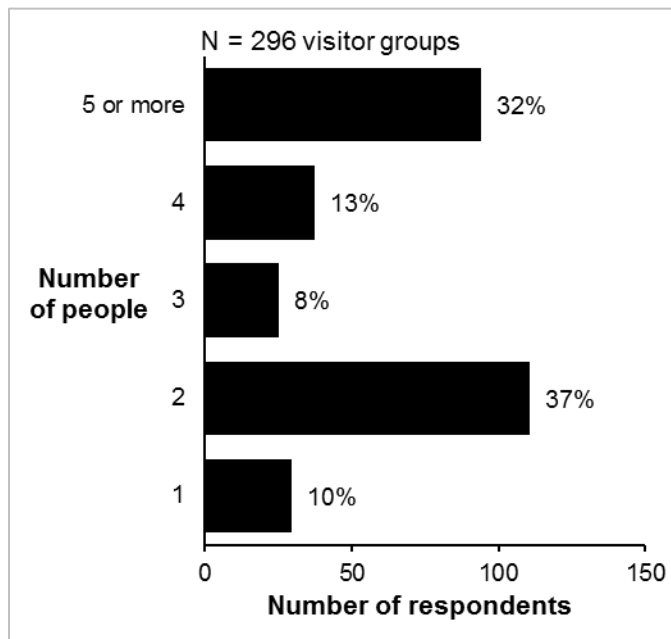


Figure 2. Visitor group size.

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Number of adults within group

Question 1

Including yourself, how many people were in your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey?

Number of adults (18 years and older).

Results (Figure 3)

- 47% of visitor groups consisted of two adults.
- 36% of visitor groups consisted of three or more adults.

See Appendix 1 for more details.

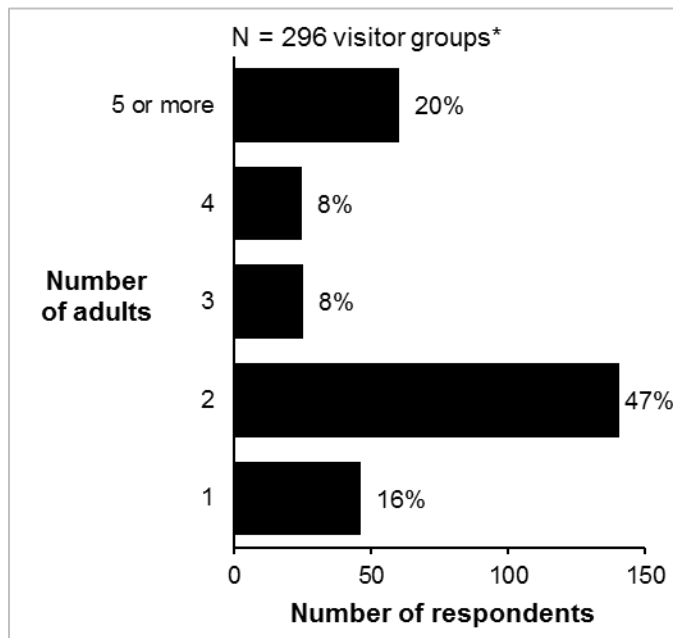


Figure 3. Number of adults within group.

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Number of children within group

Question 1

Including yourself, how many people were in your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey?

Number of children (under 18 years).

Results (Figure 4)

- 59% of visitor groups did not have children.
- Of those visitor groups that had children, 31% of visitor groups consisted of two children.
- 23% of groups with children consisted of only one child.

See Appendix 1 for more details.

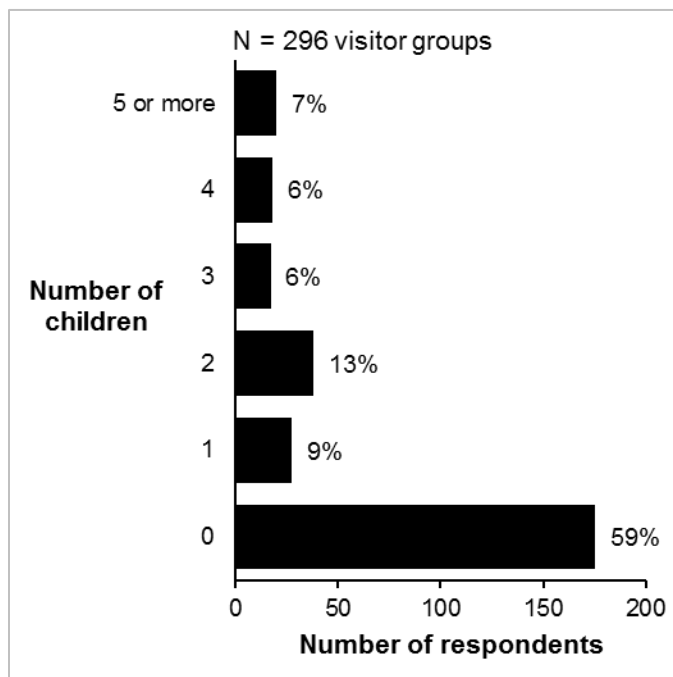


Figure 4. Number of children within group.

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Visitor group type

Question 2

What type of group were you with during your visit to Glen Canyon NRA on the day you were contacted for this survey?

Results (Figure 5)

- 57% of visitor groups were made up of family.
- Of those groups who responded “Other” (8%), groups types included:
 - “Couple”
 - “Road Scholar program”
 - “Church group”

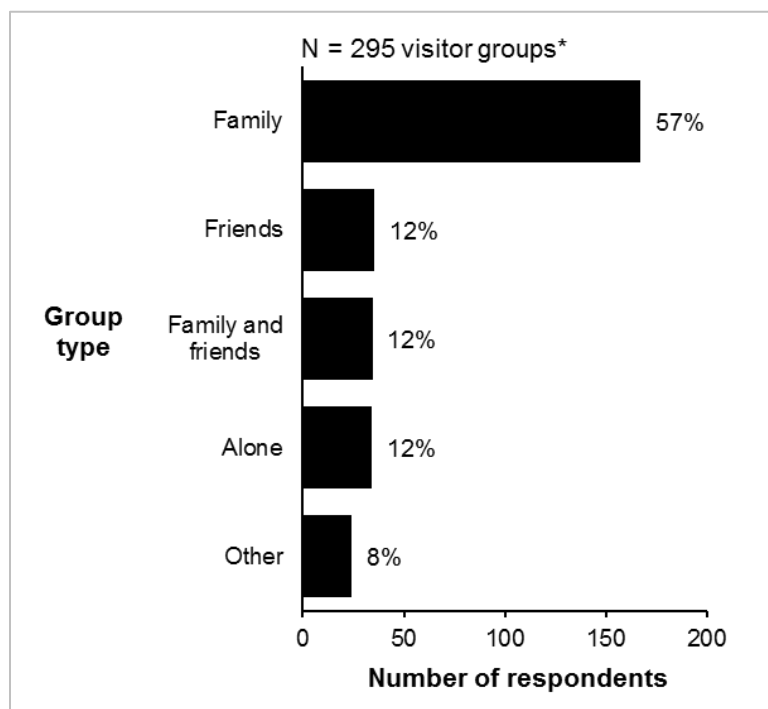


Figure 5. Visitor group type.

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Visitor age

Question 34

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide your current age.

Note: Response was limited to seven members from each visitor group.

Results (Figure 6)

- Visitor ages ranged from less than one-year old to 81 years old.
- 12% of visitors were 65 years old or older.
- 15% of visitors were 55 to 64 years old.
- 27% of visitors were 35 to 54 years old.
- 26% of visitors were 18 to 24 years old.
- 20% of visitors were under 18 years old.

See Appendix 1 for more details.

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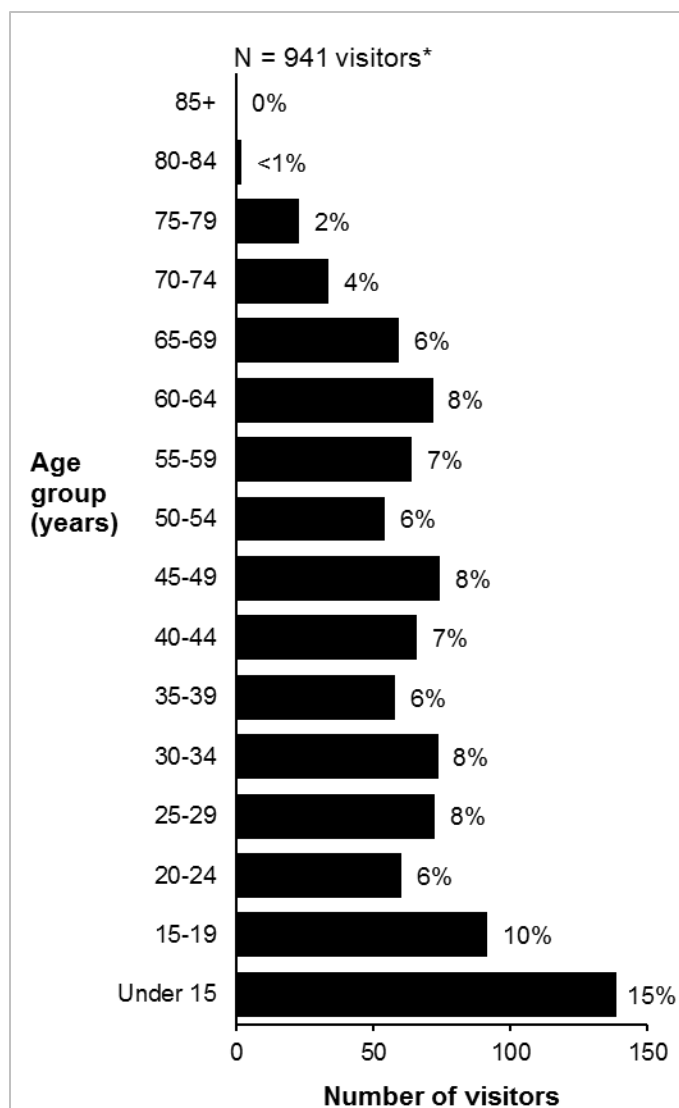


Figure 6. Visitor age.

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Visitor gender

Question 35

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide your gender.

Note: Response was limited to seven members from each visitor group.

Results (Figure 7)

- 52% of visitors were female.
- 48% of visitors were male.

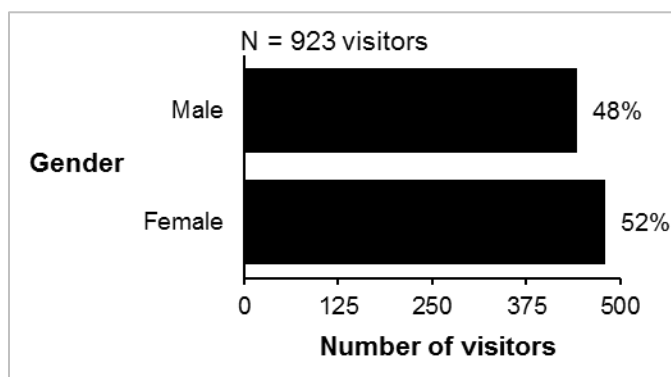


Figure 7. Visitor gender.

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Visitor ethnicity

Question 35

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide your ethnicity.

Note: Response was limited to seven members from each visitor group.

Results (Figure 8)

- 6% of visitors identified as Hispanic or Latino.

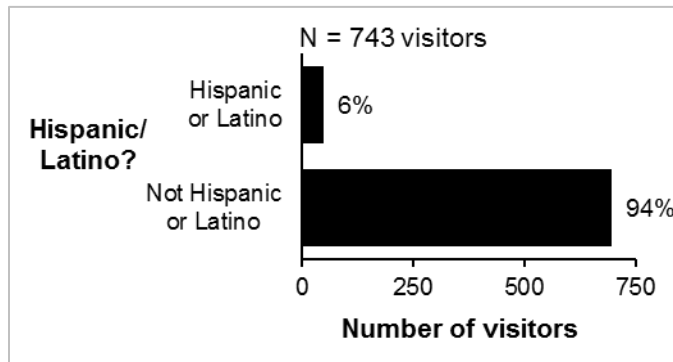


Figure 8. Visitor ethnicity.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visitor race

Question 36

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide your race.

Note: Response was limited to seven members from each visitor group.

Results (Figure 9)

- 88% of visitors were white.
- Fewer numbers of visitors were Asian (9%), American Indian or Alaska Native (3%), Black or African American (<1%), or Native Hawaiian or other Pacific Islander (<1%).

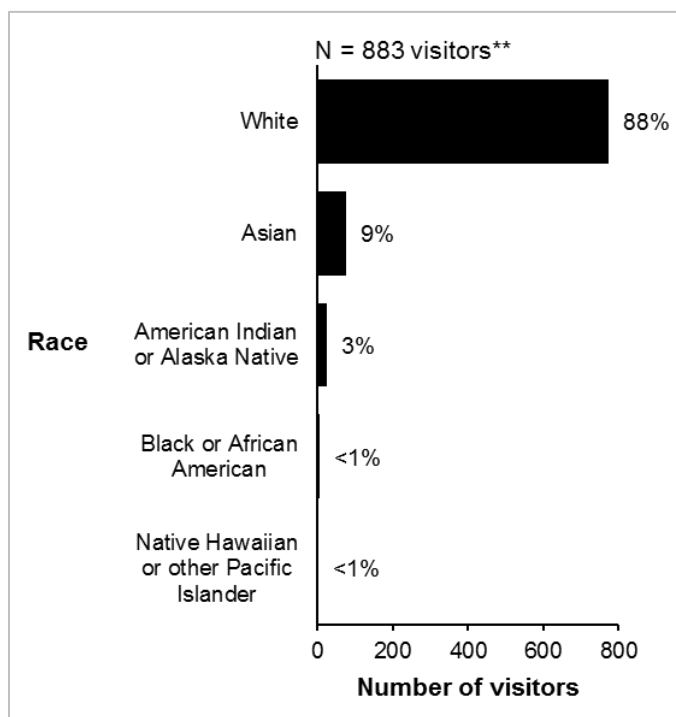


Figure 9. Visitor race.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visitor speaking language

Question 40

When visiting an area such as Glen Canyon NRA, what language do you personally prefer to use for speaking?

Results (Figure 10)

- 96% of visitor groups reported English as their preferred language of speaking.
- Of those who responded “Other” (3%), languages specified included:
 - German
 - French
 - Chinese

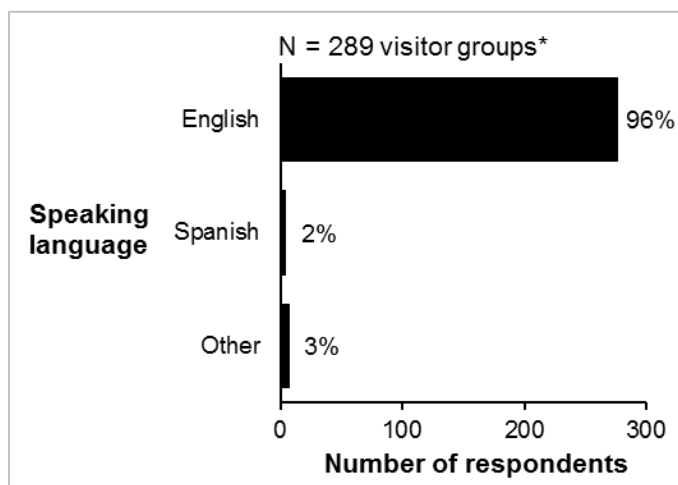


Figure 10. Preferred speaking language.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visitor reading language

Question 40

When visiting an area such as Glen Canyon NRA, what language do you personally prefer to use for reading?

Results (Figure 11)

- 96% of visitor groups reported English as their preferred language for reading.
- Of those who responded “Other” (3%), specified languages included:
 - French
 - German

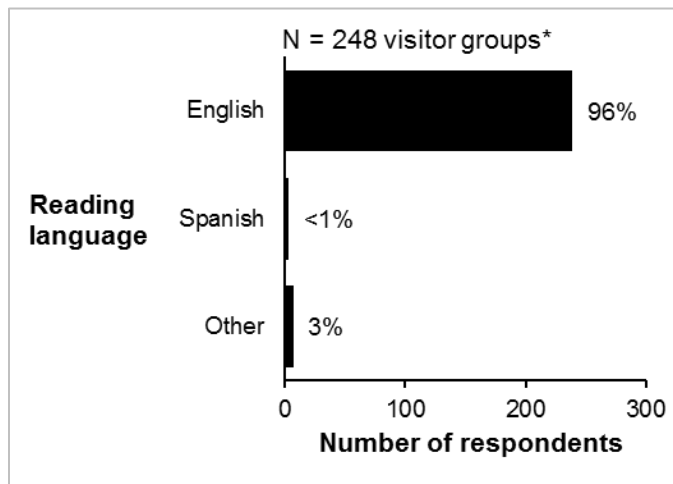


Figure 11. Preferred reading language.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

U.S. visitors' state of residence

Question 34

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide your U.S. ZIP code.

Note: Response was limited to seven members from each visitor group.

Results (Table 13, Figure 12)

- U.S. visitors came from 36 states and compromised 87% of total visitation to Glen Canyon NRA during the survey period.
- 23% of U.S. visitors came from Arizona.
- 20% of U.S. visitors came from Utah.
- Smaller proportions came from other U.S. states.

Table 13. United States visitors by state of residence.

State	Number of visitors	Percent of U.S. visitors N = 696 visitors*	Percent of all visitors N = 798 visitors
Arizona	158	23	20
Utah	142	20	18
Colorado	111	16	14
California	61	9	8
Florida	22	3	3
Pennsylvania	19	3	2
Texas	15	2	2
Nevada	14	2	2
Oregon	13	2	2
Virginia	12	2	2
Washington	12	2	2
Illinois	12	2	2
24 other states	103	15	13

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

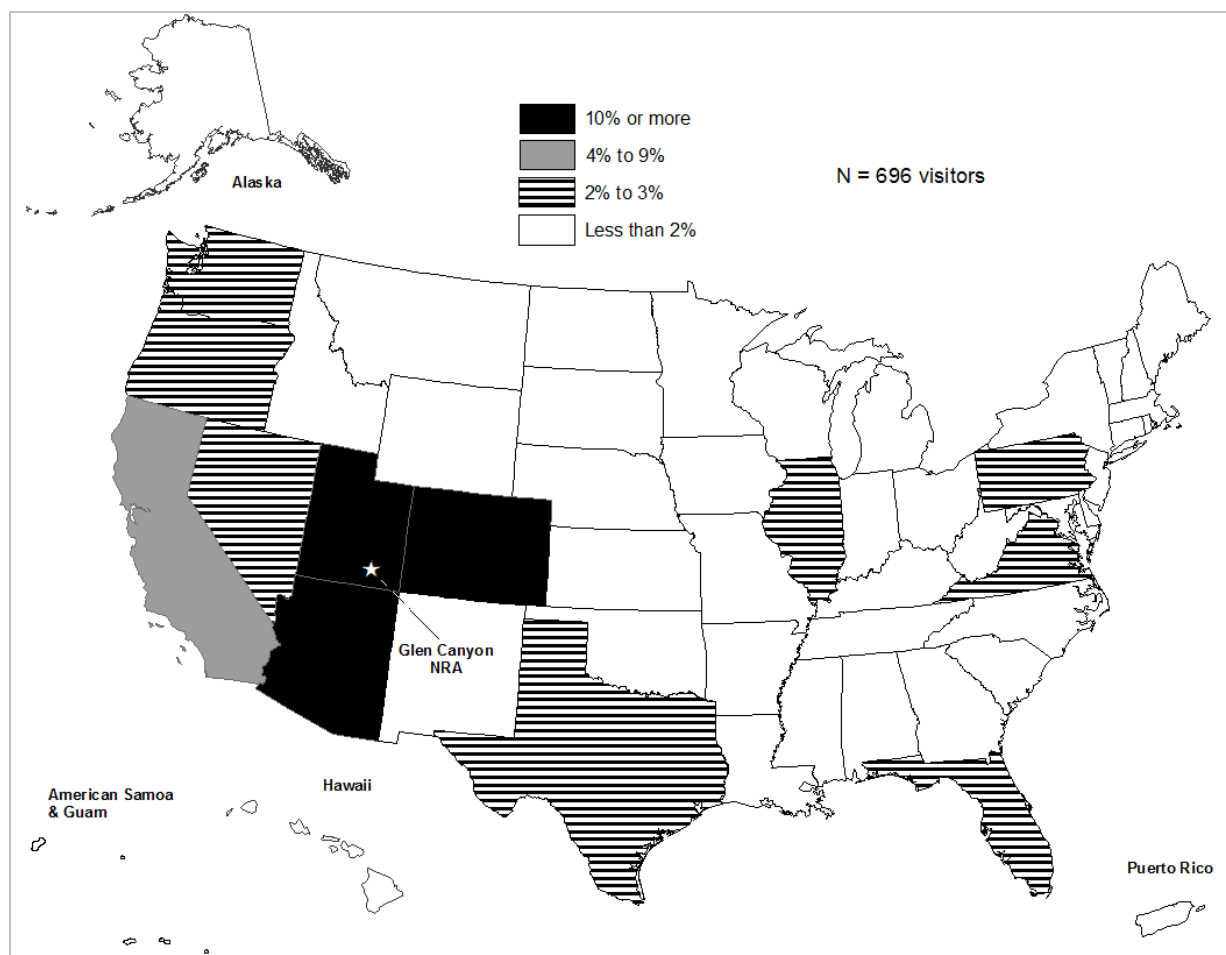


Figure 12. Proportion of U.S. visitors by state of residence.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

International visitors' country of residence

Question 34

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide your country of residence, if other than U.S.

Note: Response was limited to seven members from each visitor group.

Results (Table 14)

- International visitors were from 19 countries and compromised 13% of total visitation to Glen Canyon NRA during the survey period.
- 16% of international visitors came from Germany.
- 16% of international visitors came from Switzerland.
- Smaller proportions came from other countries.

Table 14. International visitors by country of residence.

Country	Number of visitors	Percent of international visitors N = 102 visitors*	Percent of all visitors N = 798 visitors
Germany	17	16	2
Switzerland	16	16	2
China	8	8	<1
Australia	8	7	<1
The Netherlands	7	7	<1
Finland	6	6	<1
Canada	6	6	<1
France	6	6	<1
United Kingdom	6	6	<1
Italy	4	4	<1
Denmark	4	4	<1
Poland	2	2	<1
Czech Republic	2	2	<1
Belgium	2	2	<1
Taiwan	2	2	<1

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Table 14 (continued). International visitors by country of residence.

Country	Number of visitors	Percent of international visitors N = 102 visitors*	Percent of all visitors N = 798 visitors
India	2	2	<1
Ireland	2	2	<1
Norway	2	1	<1
Slovakia	1	<1	<1

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Live in nearby area

Question 26

Do you live within the nearby area (within the shaded area shown on the map)?

See Figure 14 on the next page or Appendix 2 for map.

Results (Figure 13)

- 85% of visitors did not live within the shaded area on the map (i.e., nearby area).
- 15% of visitor groups lived in the shaded area (i.e., nearby area).

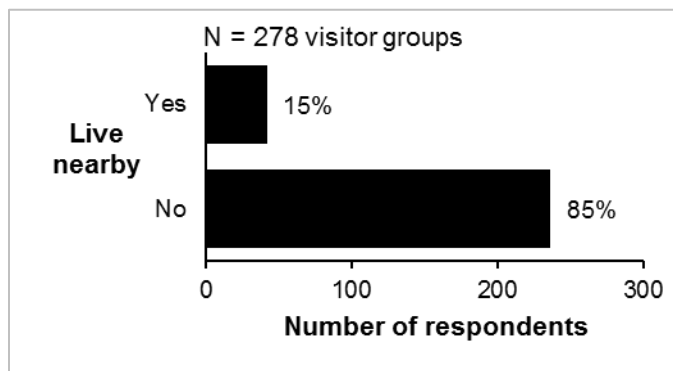


Figure 13. Visitors who live in nearby area.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

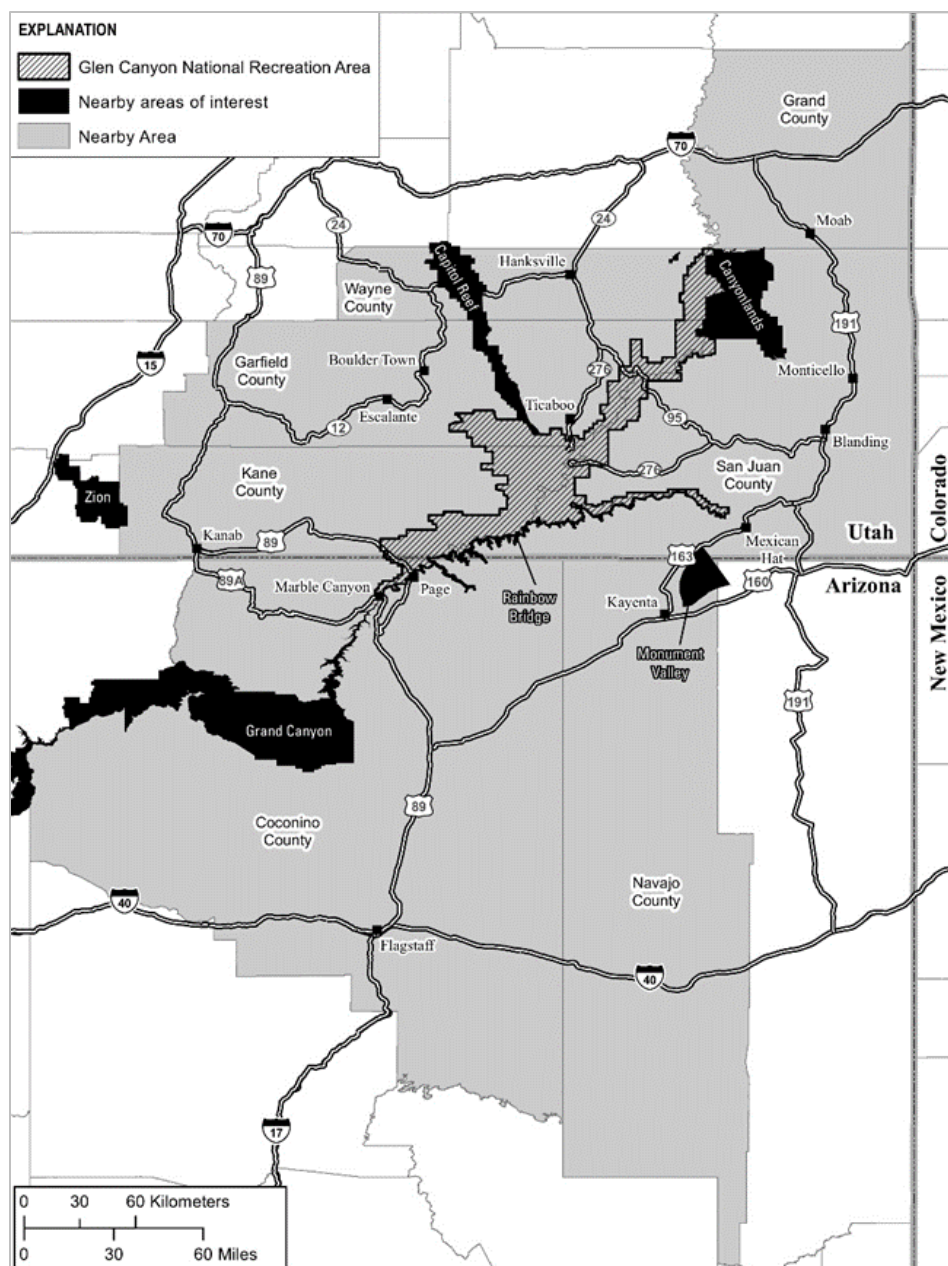


Figure 14. Map of Glen Canyon NRA and nearby area.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visitor level of education

Question 37

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, what is the highest level of formal education completed by each member of your group?

Note: Response was limited to seven members from each visitor group.

Results (Figure 15)

- 21% of visitors' highest level of formal education completed was a master's, doctoral or professional degree.
- 21% of visitors' highest level of formal education completed was college, business or trade school.

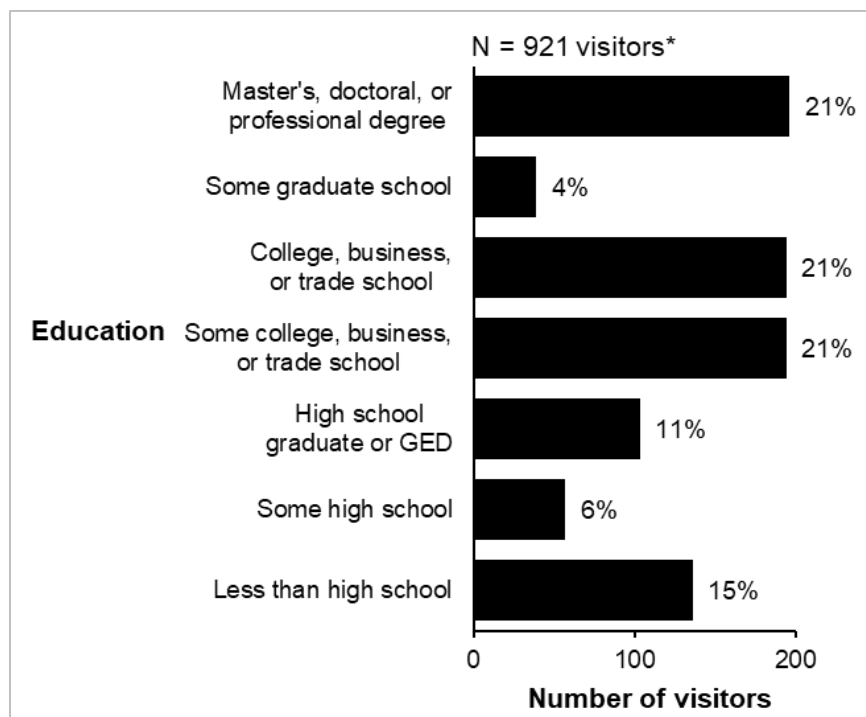


Figure 15. Visitor level of education.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Household income

Question 38

Which category best represents your annual household income?

Results (Figure 16)

- 26% of visitor groups had an annual household income between \$100,000 and \$149,999.
- 21% of visitor groups had an annual household income between \$50,000 and \$74,999.

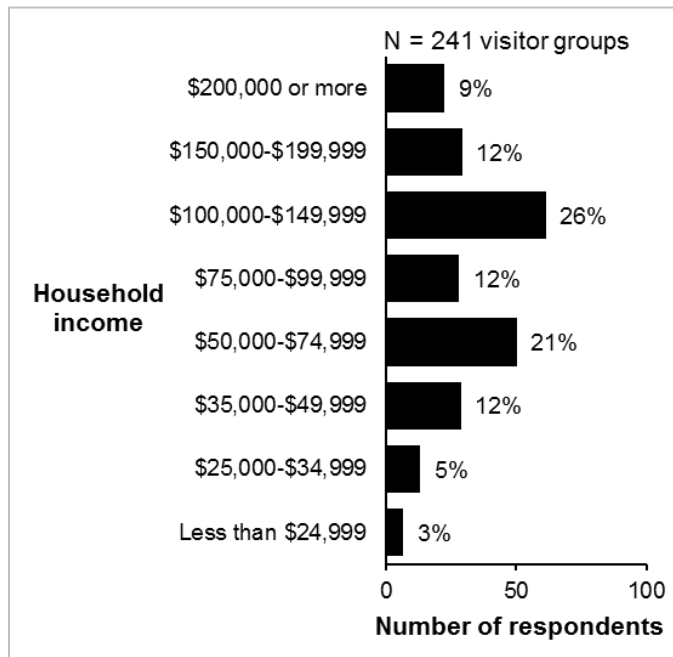


Figure 16. Annual household income.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Household size

Question 39

Including yourself, how many people are in your household?

Results (Figure 17)

- 47% of visitor groups had a household of two people.
- 41% of visitor groups had a household of three or more people.
- The average household size was 2.8 people.

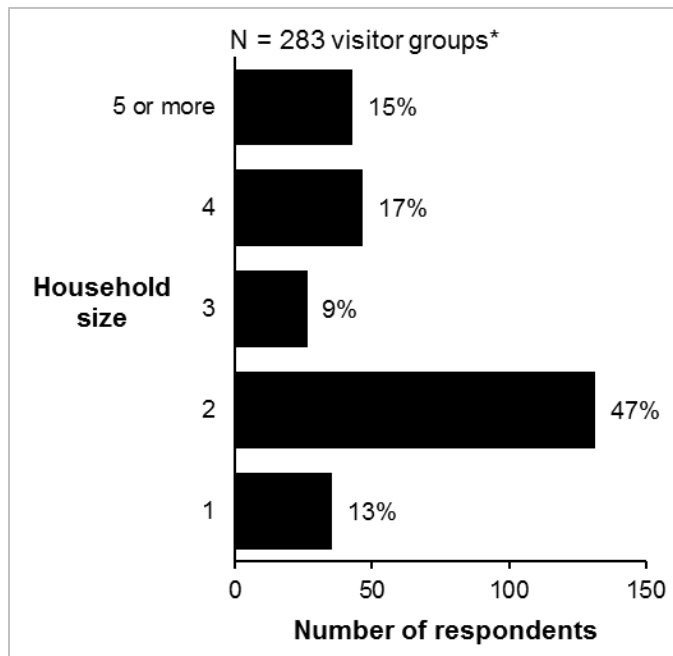


Figure 17. Size of household.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Frequency of visits to park

Question 34

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide the number of visits to Glen Canyon NRA in the last 12 months, including this trip.

Note: Response was limited to seven members from each group.

Results (Figure 18).

- 70% of visitors visited the park only once in the last 12 months.
- 31% of visitors visited the park two or more times in the last 12 months.

See Appendix 1 for more details.

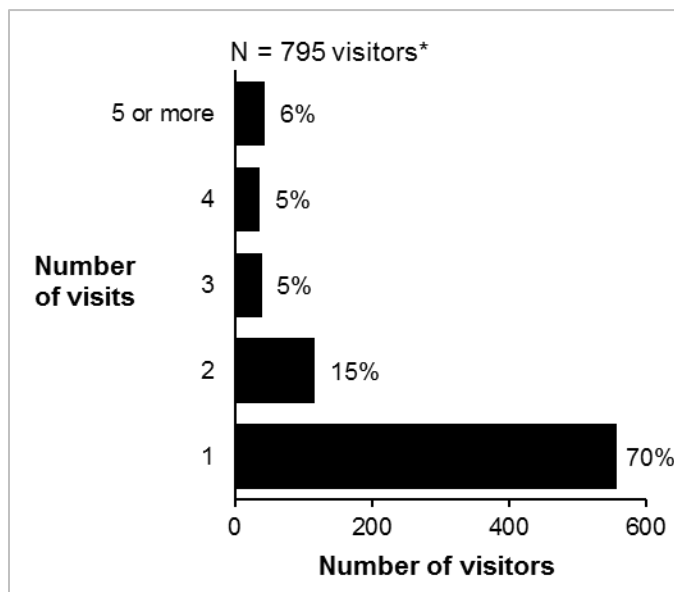


Figure 18. Park visits in last 12 months.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Frequency of visits to other National Park Service sites

Question 34

For your personal group during your visit to Glen Canyon NRA on the day you were contacted for this survey, please provide the number of visits to other NPS sites in the last 12 months.

Note: Response was limited to seven members from each group.

Results (Figure 19)

- 21% of visitors visited other NPS sites only once in the last 12 months.
- 21% of visitors visited other NPS sites five or more times in the last 12 months.
- 20% of visitors did not visit any other NPS sites in the last 12 months.

See Appendix 1 for more details.

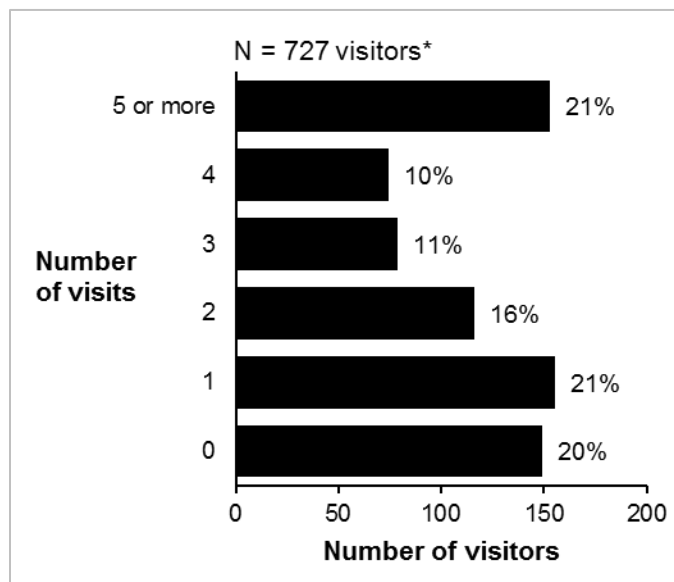


Figure 19. Other NPS site visits in last 12 months.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Pre-Trip Planning and Experience

Information sources prior to visit

Question 8

Prior to this trip, how did you obtain information about Glen Canyon NRA?

Results (Figure 20 and Figure 21)

- 84% of visitor groups obtained information about Glen Canyon NRA prior to their visit.
- As shown in Figure 21, among those visitor groups who obtained information about Glen Canyon NRA prior to their visit, the most common information sources were:
 - 44% Previous visits
 - 27% Friends/relatives/word of mouth
 - 23% Park website
- “Other websites” used by visitor groups (10%) included:
 - “Trip Advisor”
 - “Google Maps”
- “Other information sources” used by visitor groups (3%) included:
 - “Personal knowledge”
 - “Books”

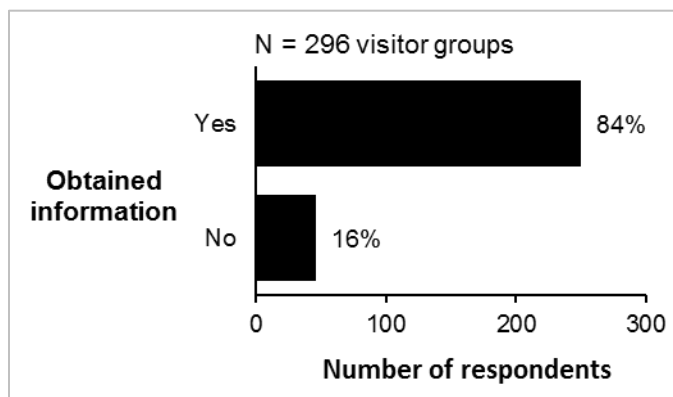


Figure 20. Visitor groups that obtained information about the park prior to visit.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

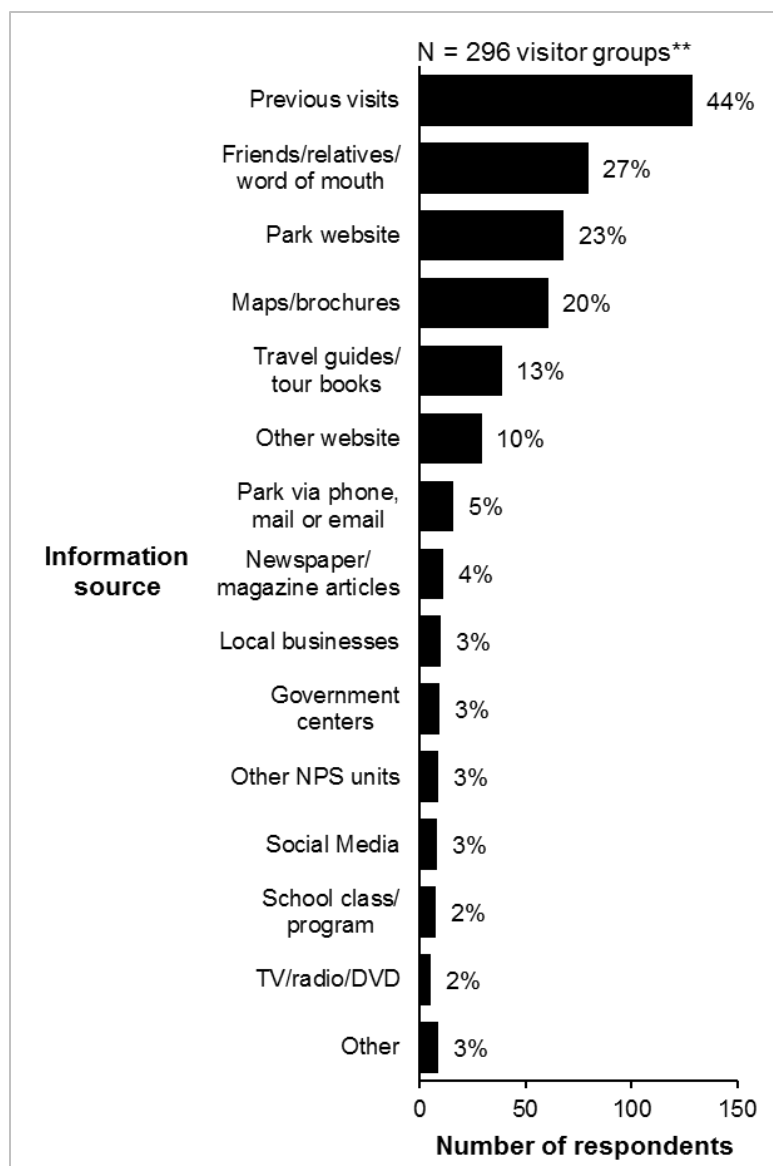


Figure 21. Information sources used prior to trip.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Information needed

Question 9

Did you have the information about Glen Canyon NRA you needed on this trip?

Results (Figure 22)

- 92% of visitor groups had the information they needed prior to their visit.

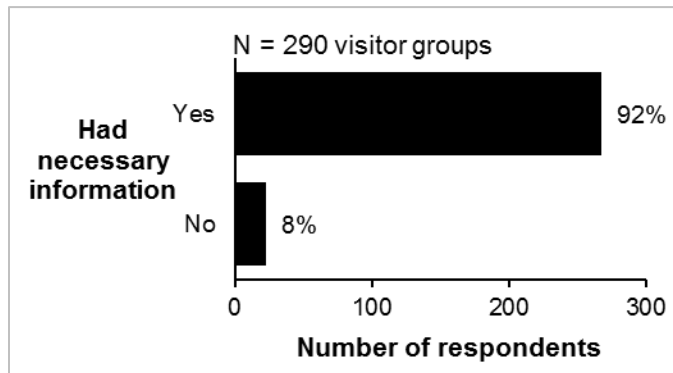


Figure 22. Had information needed on this trip.

Question 9

If NO, please specify the information you needed but didn't have on this trip (open-ended).

Results (Table 15)

- Of those who did not have the information they needed, “clear signage” was the most frequently mentioned (mentioned 7 times).

Table 15. Information needed. N = 17 comments. Some visitor groups may have made more than one comment.

Aspect	Frequency of times mentioned
Clear signage	7
Required entry fee	3
Boat rental information	2
Other comment	5

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Forms of transportation

Question 3

Please indicate all of the forms of transportation you personally used to travel from your home to Glen Canyon NRA on this trip.

Results (Figure 23)

- 92% of visitor groups used a car, truck or SUV to travel to Glen Canyon NRA.
- 27% of visitor groups used an airplane.
- Of those who responded “Other” (1%), forms of transportation specified included:
 - “Motorcycle”
 - “Car service”

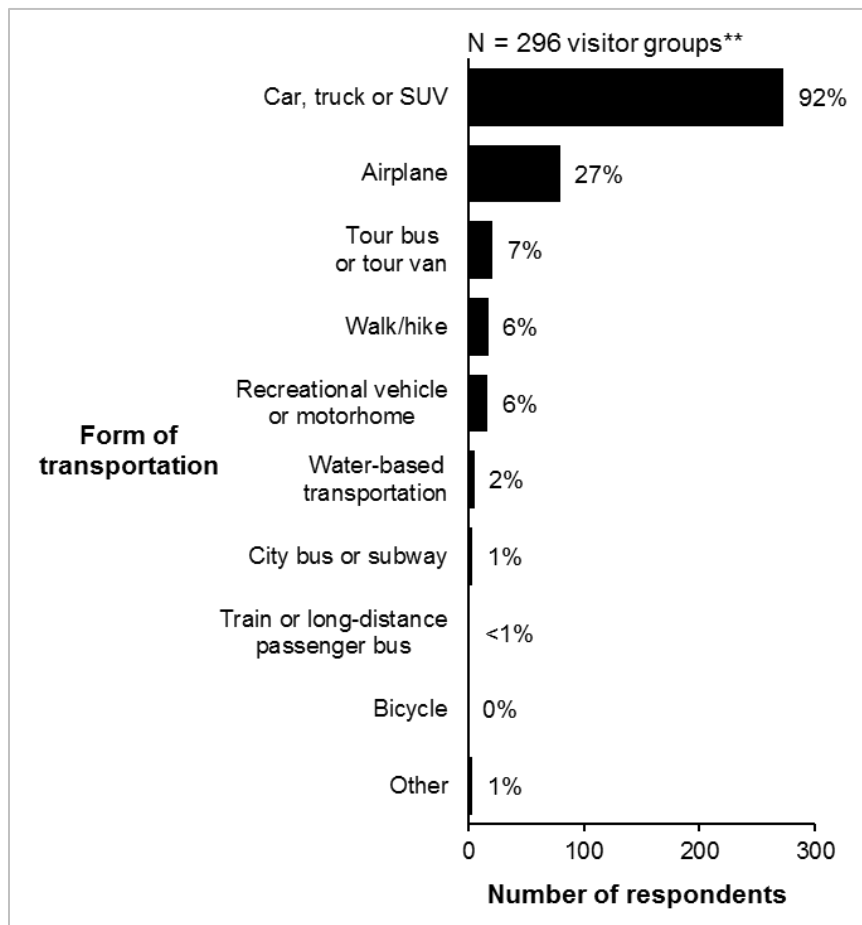


Figure 23. Transportation used to travel to park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Number of people in vehicle

Question 3

Please indicate the number of people in the car, truck, or SUV, including you.

Results (Figure 24)

- 39% of visitor groups traveled to the park in a vehicle with two people.
- 24% of visitor groups traveled in a vehicle with five or more people.

See Appendix 1 for more details.

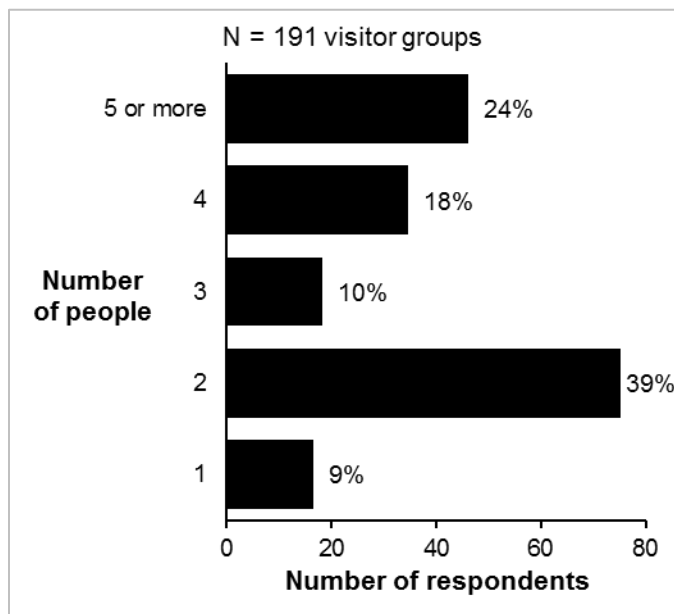


Figure 24. Number of passengers in car, truck or SUV.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Water-based transportation

Question 3

Please indicate all of the forms of water-based transportation you personally used to travel from your home to Glen Canyon NRA on this trip.

Results (Figure 25)

- 34% of visitor groups who traveled by water traveled in a tour boat.
- 29% of those who used water-based transportation took a ferry.
- Of those who responded, “Other water-based mode” (69%), forms of water-based transportation specified included:
 - “Personal boat”
 - “Ski boat”

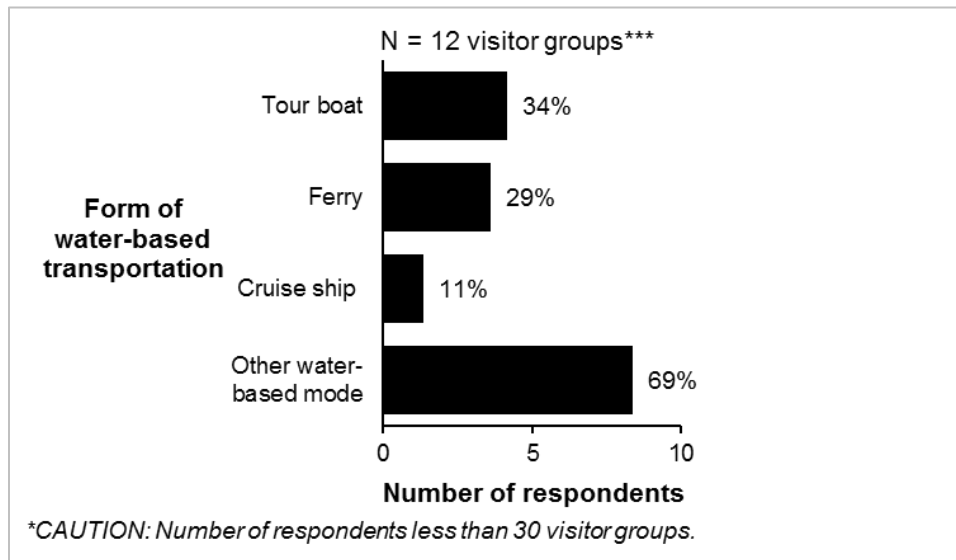


Figure 25. Water-based transportation used to travel to park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Hours traveled to park

Question 4

Approximately how many hours from home did you travel one-way to get to Glen Canyon NRA on this trip?

Results (Figure 26)

- 48% of visitor groups traveled up to six hours one-way to get to Glen Canyon NRA.
- 24% of visitor groups traveled 7 to 12 hours one-way.

See Appendix 1 for more details.

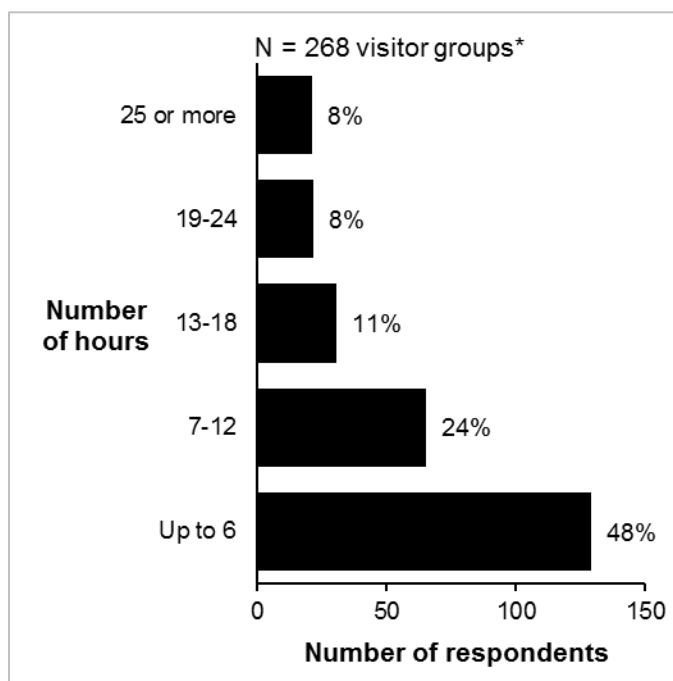


Figure 26. Hours traveled one-way to park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Miles traveled to park

Question 4

Approximately how many miles from home did you travel one-way to get to Glen Canyon NRA on this trip?

Results (Figure 27)

- 31% of visitor groups traveled 251 to 500 miles one-way to Glen Canyon NRA.
- 28% of visitor groups traveled up to 250 miles one-way.
- 26% of visitor groups traveled 1,251 or more miles one-way to get to Glen Canyon NRA.

See Appendix 1 for more details.

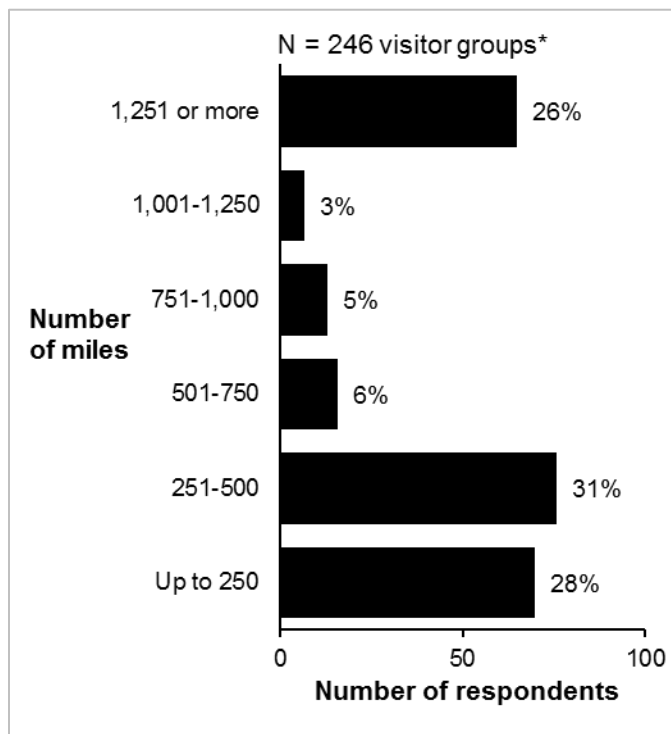


Figure 27. Miles traveled one-way to park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Role of park visit in trip away from home

Question 28

Was this trip to Glen Canyon NRA your primary or sole purpose for your trip away from home, one of several equally important destinations on your trip away from home, or just an incidental or spur of the moment stop on your trip away from home?

Results (Figure 28)

- 49% of visitor groups reported that their visit to the park was one of several equally important destinations on their trip away from home.
- 43% of visitor groups reported that visiting the park was the primary or sole purpose of their trip.

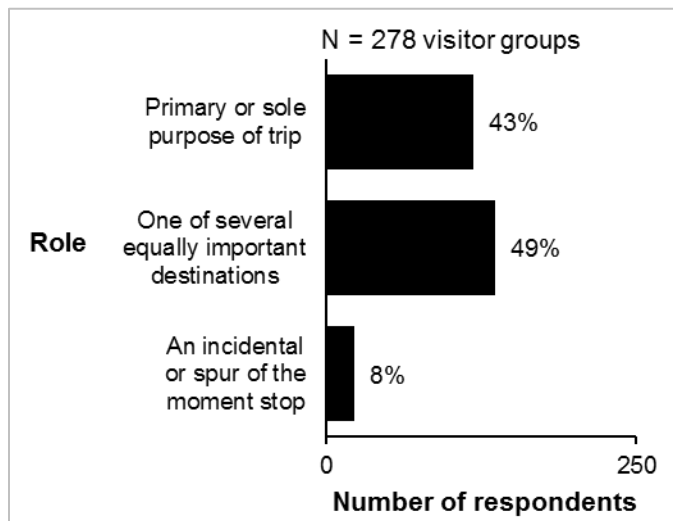


Figure 28. Role of park visit in trip away from home.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Role of park visit in trip away from home, if not primary or sole purpose for trip

Question 28

If this was one of several equally important destinations on your trip away from home, was one or more of the other equally important destinations located within the nearby area (within the shaded area of the map)?

See Figure 14 or Appendix 2 for map.

Results (Figure 29)

- For those visitor groups that reported visiting Glen Canyon NRA as one of several equally important destinations, 81% reported that one or more equally important destinations were within the nearby area.

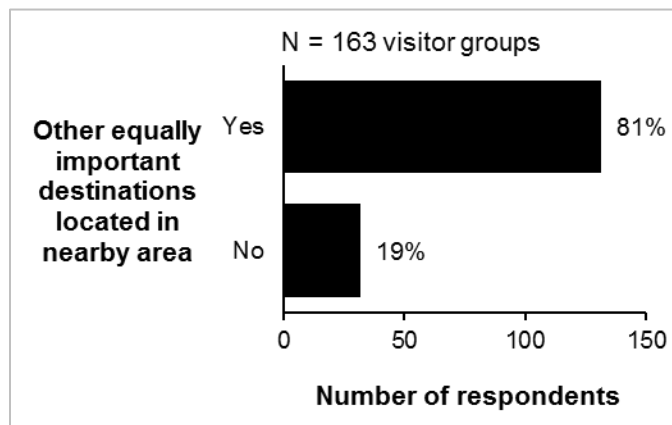


Figure 29. Location of other equally important destinations.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 28

If this was just an incidental or spur of the moment stop on your trip away from home, was your primary destination located within the nearby area (within the shaded area of the map)?

See Figure 14 or Appendix 2 for map.

Results (Figure 30)

- For those visitor groups that reported visiting Glen Canyon NRA as just an incidental stop, 59% reported that their primary destination was within the shaded area of the map (i.e., nearby area).

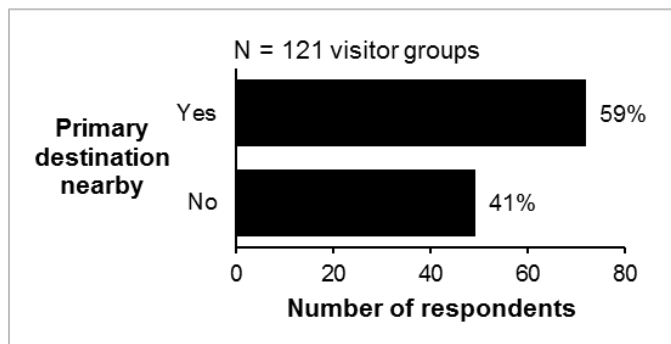


Figure 30. Location of primary destination if spur of the moment trip.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Reasons for visiting the park on this trip

Question 10

How important to you was each of the following reasons for visiting Glen Canyon NRA on this trip?

Rating choices:

- 1 = Extremely important
- 2 = Very important
- 3 = Moderately important
- 4 = Slightly important
- 5 = Not at all important

Results (Figure 31)

- Figure 31 shows the combined proportions of “extremely important” and “very important” ratings for reasons for visiting the park.
- The reasons that received the highest combined proportions of “extremely important” and “very important” ratings were:
 - 83% Spend time with friends/family
 - 79% Be outdoors
 - 79% View wildlife or natural scenery
- The reasons that received the lowest combined proportions of “extremely important” and “very important” ratings were:
 - 28% Learn more about American history/culture
 - 7% Attend a special event
 - Of those who rated “Attend a special event” (N = 268), events specified included:
 - “Reunion/get together”
 - “Youth event”
- Of those who responded “Other” (N = 55), reasons specified included:
 - “To cool off”
 - “Fishing”

Figure 32 through Figure 45 show ratings for each reason.

See Appendix 1 for more details.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

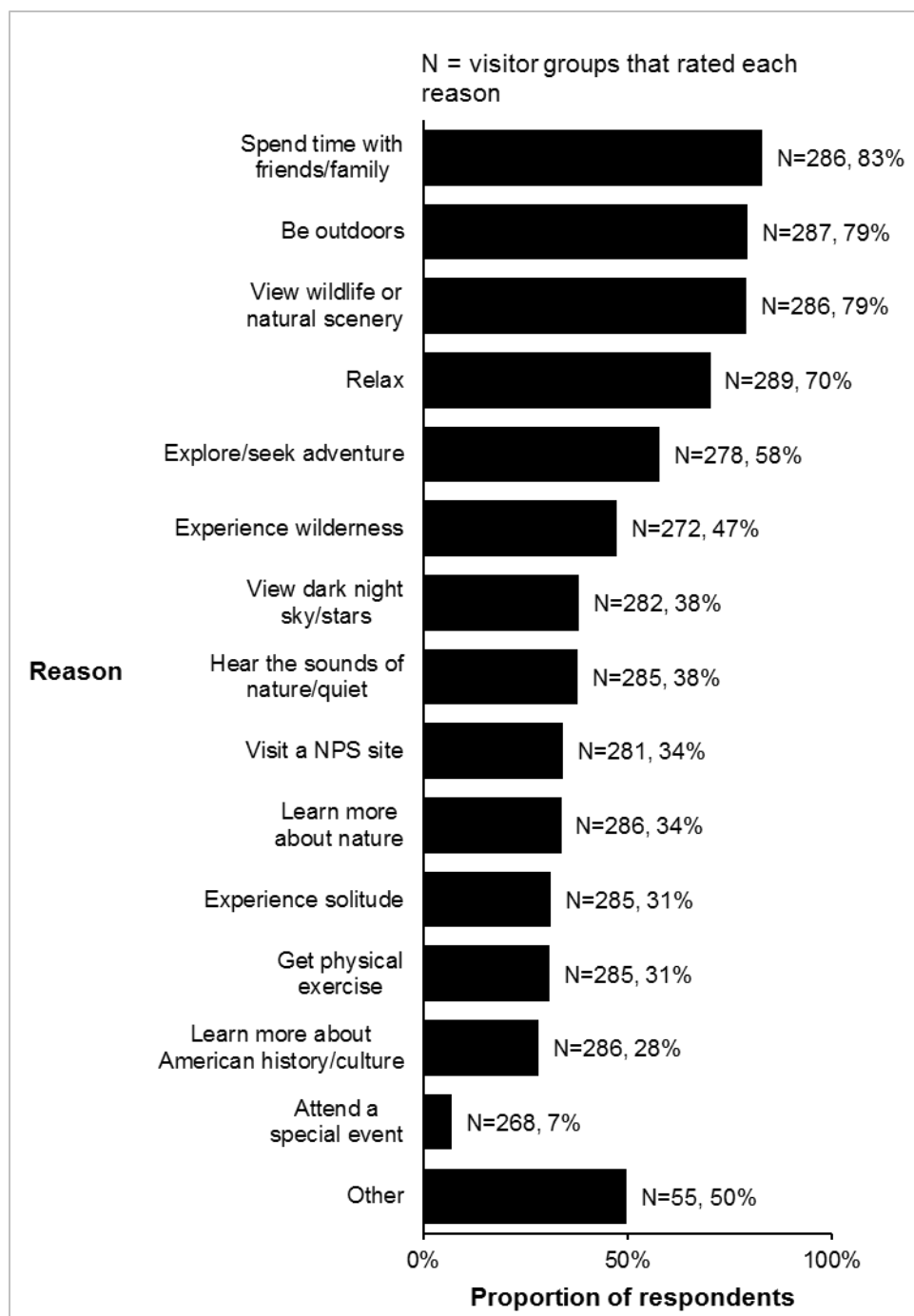


Figure 31. Reasons for visiting the park this trip.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

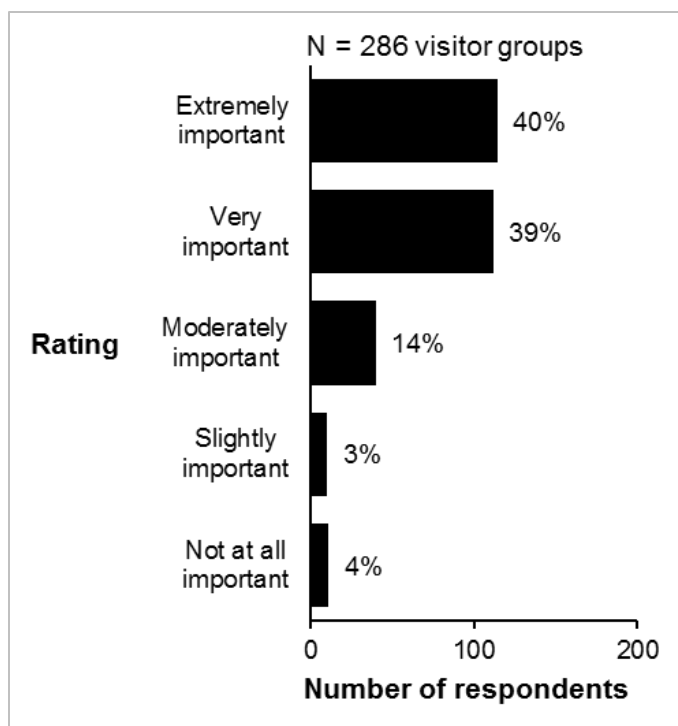


Figure 32. Importance of viewing wildlife or natural scenery.

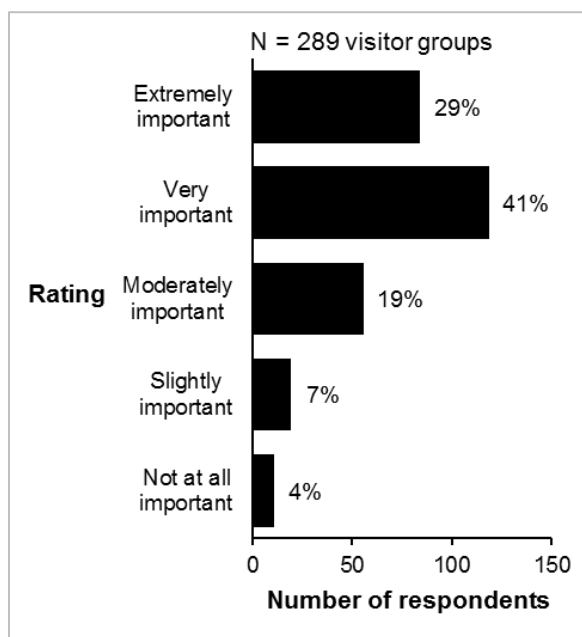


Figure 33. Importance of relaxing.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

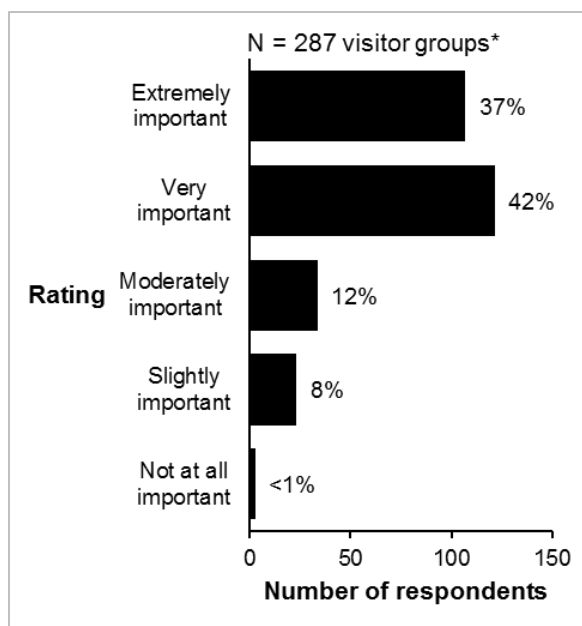


Figure 34. Importance of being outdoors.

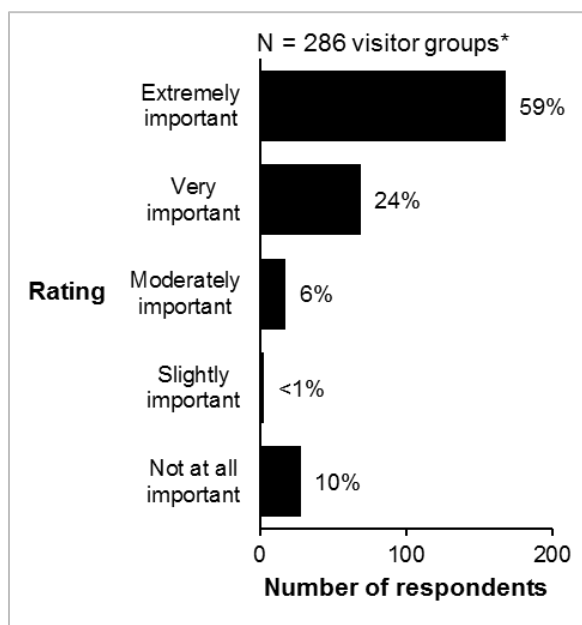


Figure 35. Importance of spending time with friends/family.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

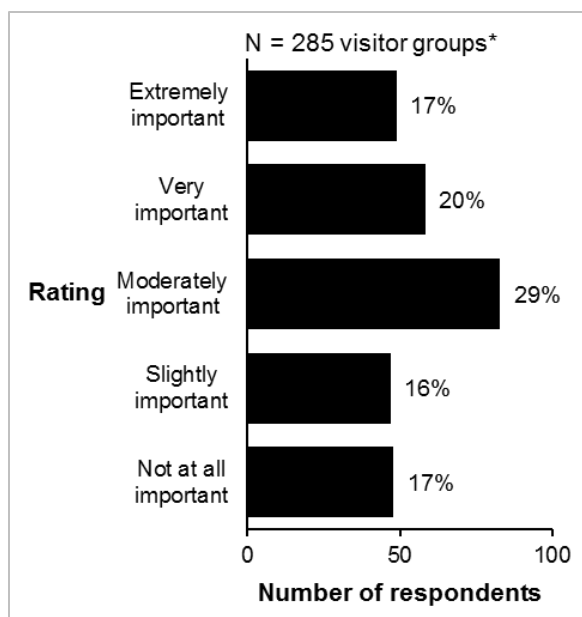


Figure 36. Importance of hearing the sounds of nature/quiet.

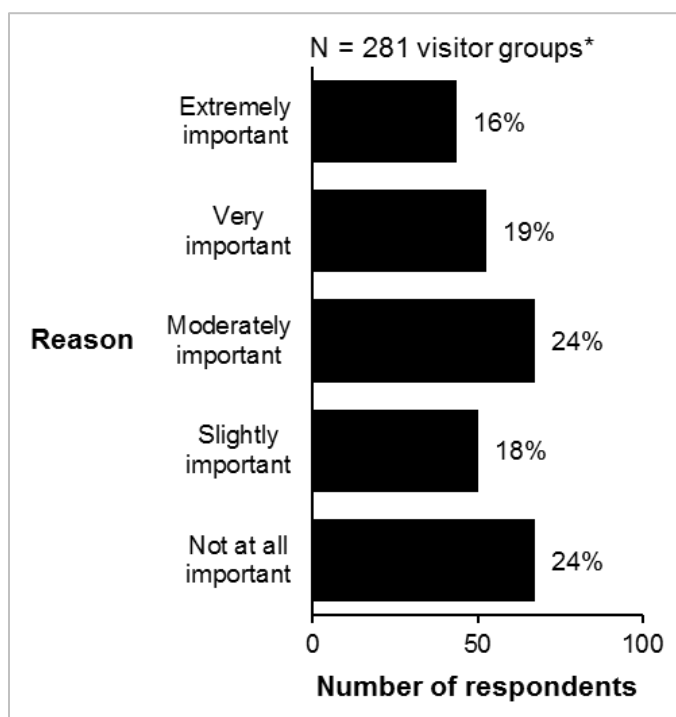


Figure 37. Importance of visiting an NPS site.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

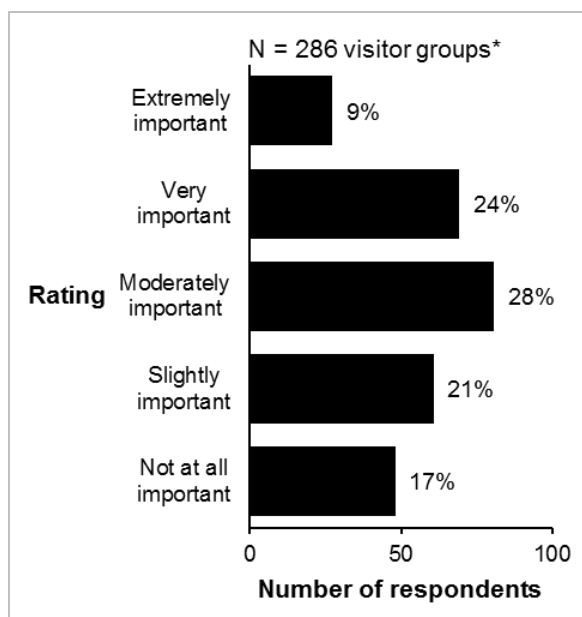


Figure 38. Importance of learning more about nature.

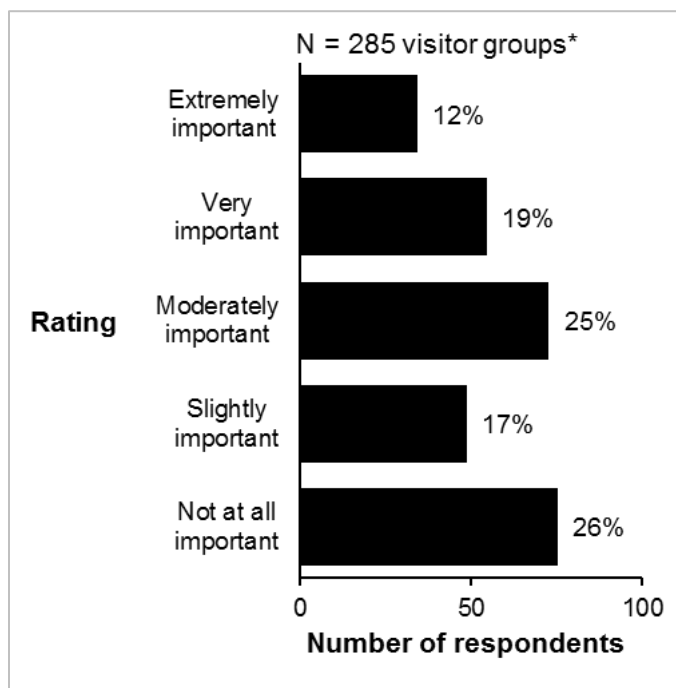


Figure 39. Importance of experiencing solitude.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

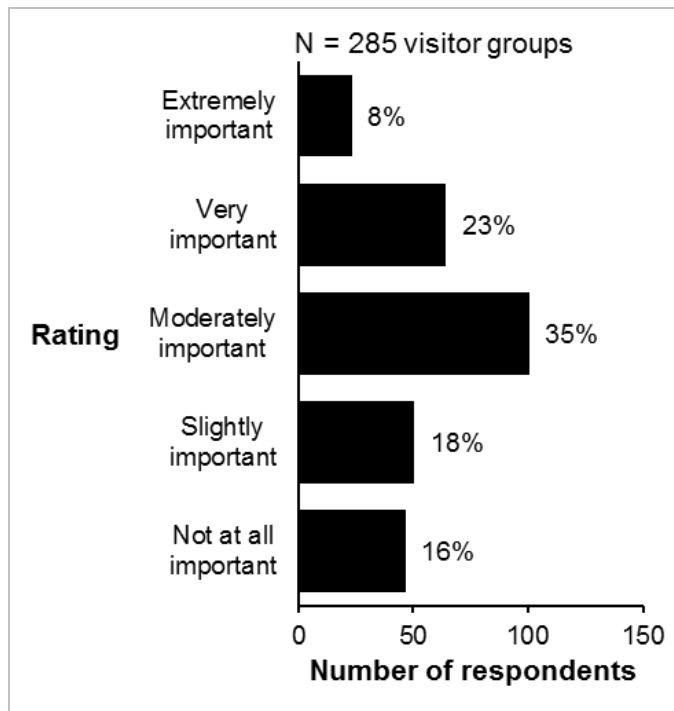


Figure 40. Importance of getting physical exercise.

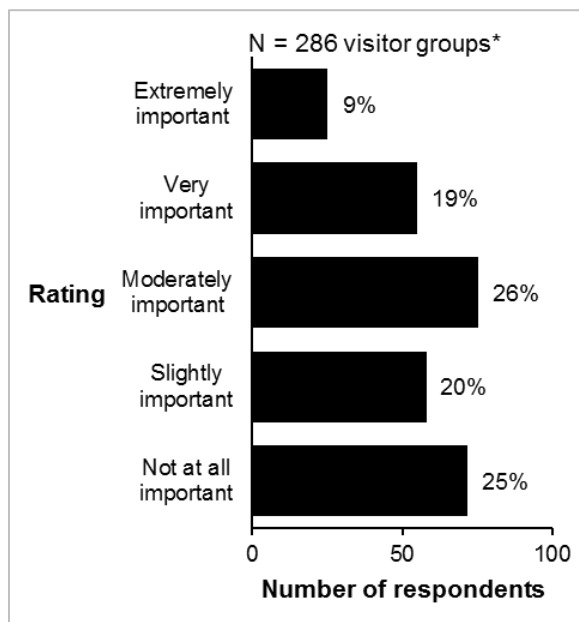


Figure 41. Importance of learning more about American history/culture.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

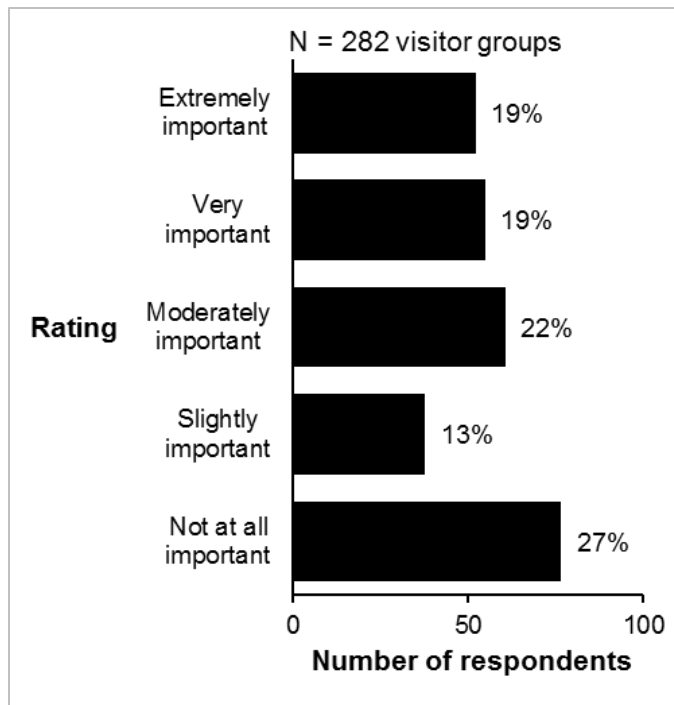


Figure 42. Importance of viewing dark night sky/stars.

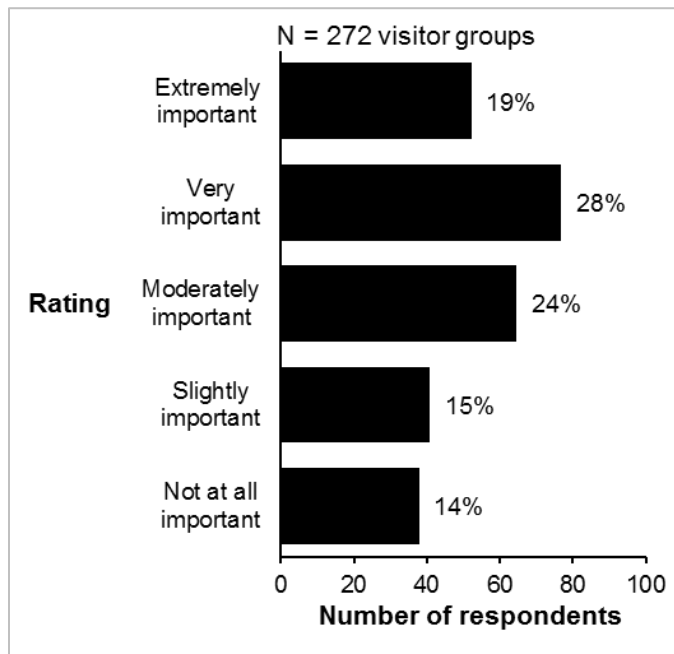


Figure 43. Importance of experiencing wilderness.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

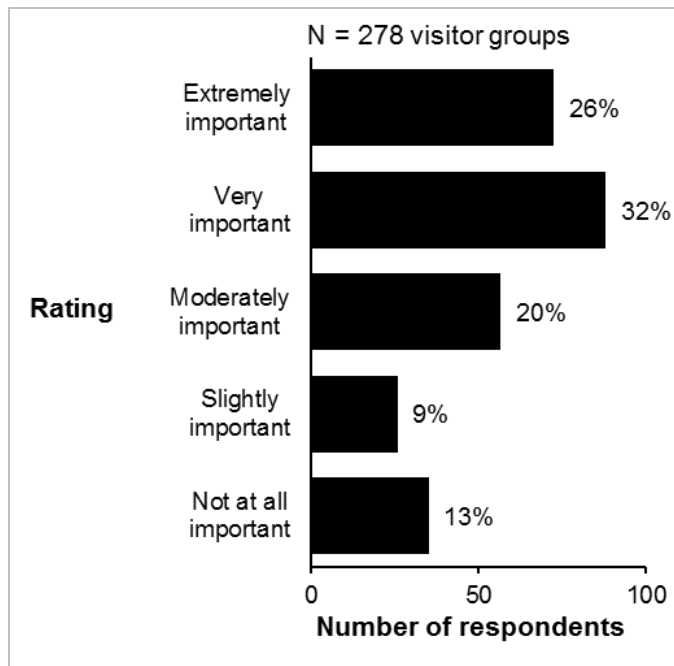


Figure 44. Importance of exploring/seeking adventure.

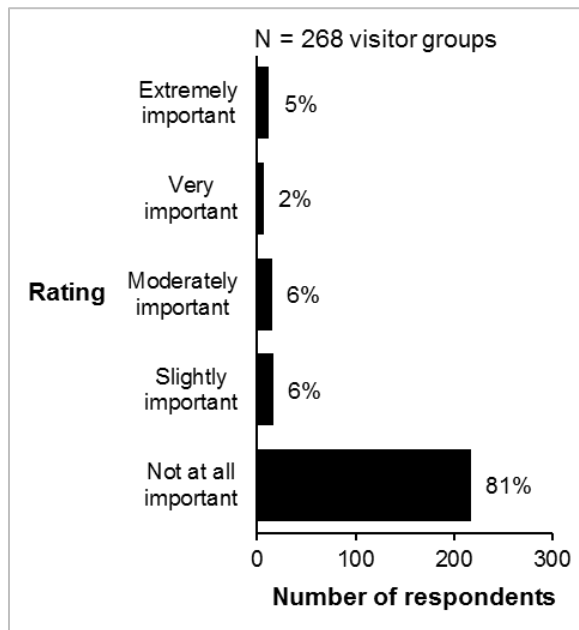


Figure 45. Importance of attending a special event.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Most important reason for visiting on this trip

Question 11

Of the reasons listed in Question 10, which was the most important reason for your visit to Glen Canyon NRA on this trip?

Results

- As shown in Figure 46, the most common most important reasons for visiting Glen Canyon NRA were:
 - 37% Spend time with friends/family
 - 26% View wildlife or natural scenery
- The least common most important reasons were:
 - <1% View dark night sky/stars
 - <1% Hear the sounds of nature/quiet
 - <1% Attend a special event
- Of those who responded “Other” (9%), reasons specified included:
 - “Fellowship”
 - “To see the dam”
 - “I was driving through the area”

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

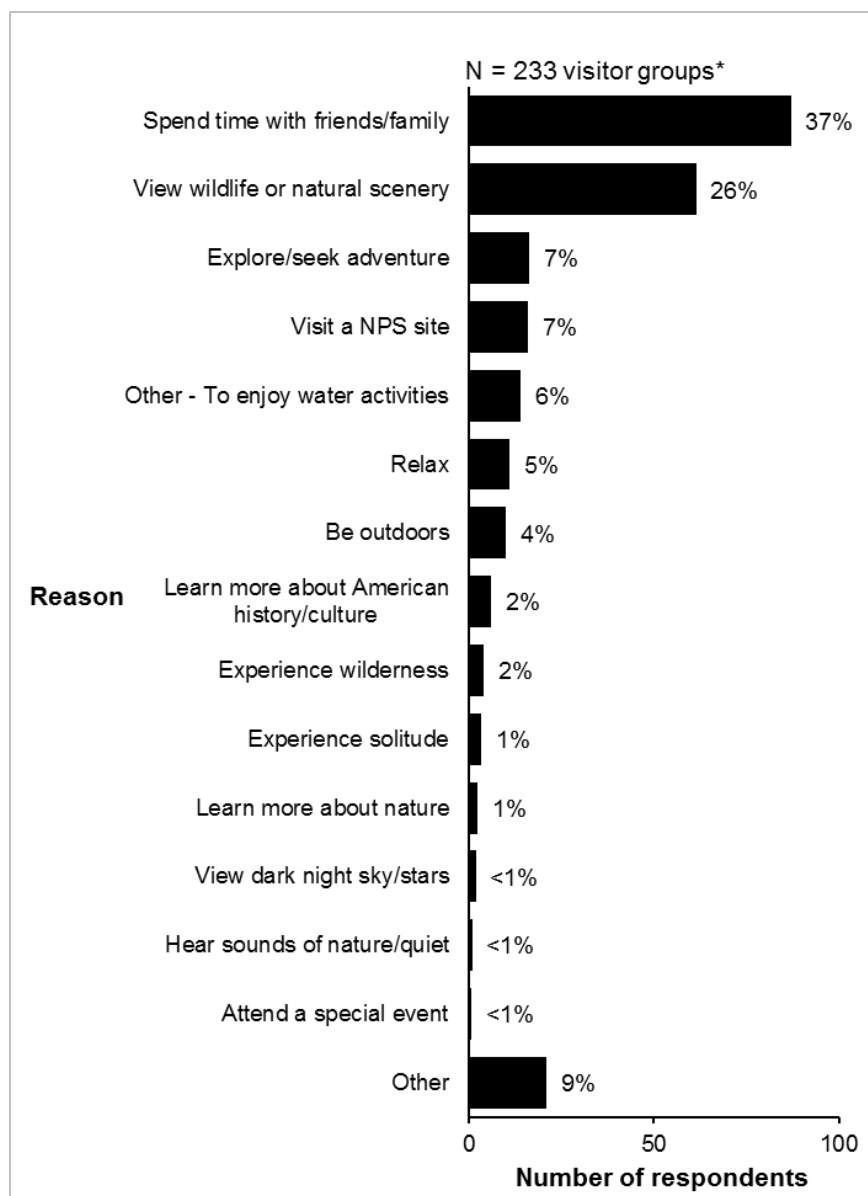


Figure 46. Most important reason for visiting the park on this trip.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Park Experience and Activities

Type of entrance fee applied

Question 5

On this trip to Glen Canyon NRA, which of the following entrance fees applied to you personally?

Results (Figure 47)

- 28% of visitor groups used a Senior Pass, Access Pass, or Military Pass to enter the park.
- 17% of visitor groups used a 7-day entrance pass.
- 17% of visitor groups used the America the Beautiful pass.
- Of those who responded “Other” (3%), entrance fees specified included:
 - “4th grade pass”
 - “Annual boat pass”

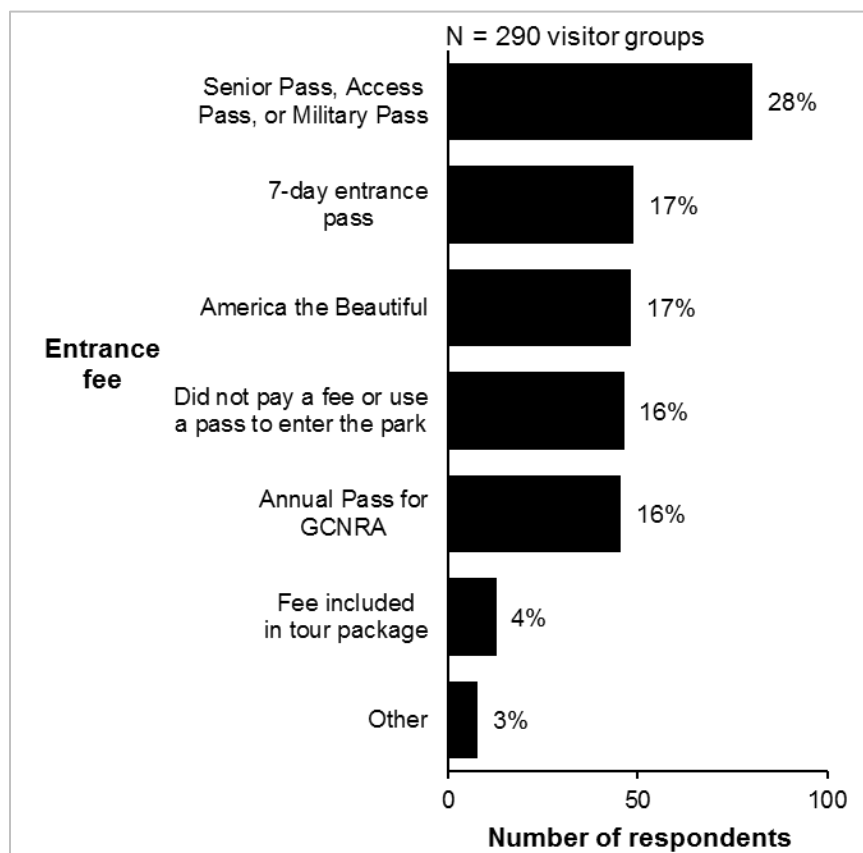


Figure 47. Entrance fees that applied to visitor groups.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Length of stay in Glen Canyon NRA

Question 7

On this trip, how much total time did you spend within Glen Canyon NRA

Number of hours, if day trip

Results (Figure 48)

- 40% of visitor groups who spent less than 24 hours in the park visited for five or more hours.
- 20% of visitor groups who spent less than 24 hours in the park visited for two hours.
- The average number of hours spent in the park was 4.7 hours.

See Appendix 1 for more details.

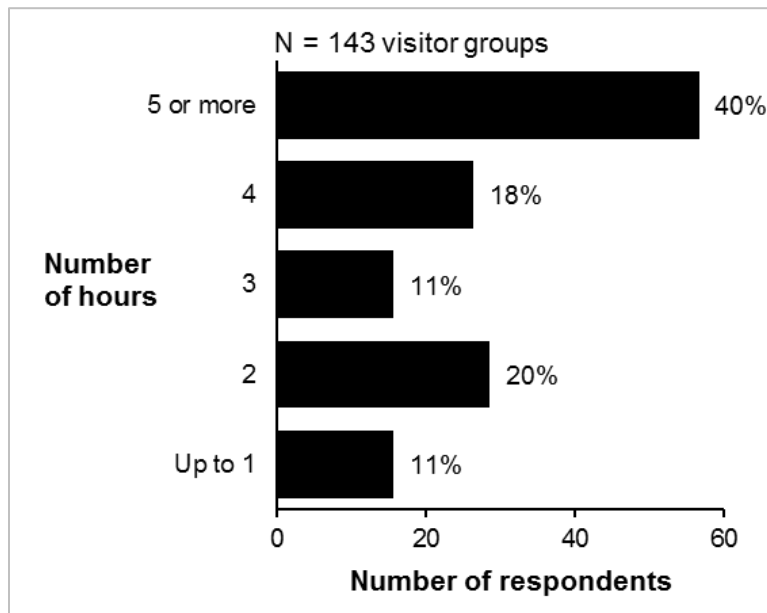


Figure 48. Number of hours visiting the park by groups who spent less than 24 hours in the park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Number of days, if greater than 1 day

Results (Figure 49)

- 36% of visitor groups who reported spending 24 hours or more in the park visited for five or more days.
- 29% of visitor groups spent two days visiting the park.
- The average number of days spent visiting the park was 4.8 days.

See Appendix 1 for more details.

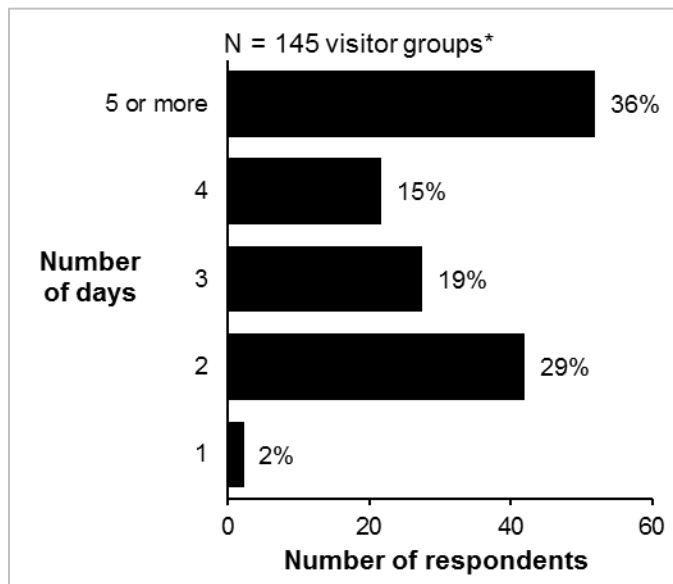


Figure 49. Number of days visiting the park by groups who spent 24 hours or more in the park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Days entered or re-entered park

Question 6

On how many days during this trip did you enter or re-enter Glen Canyon NRA? If you were on a day trip or if you camped or lodged inside the park and did not leave the park boundaries for the entire length of your stay, then answer one day.

Results (Figure 50)

- 60% of visitor groups entered or re-entered the park on only one day.
- 23% of visitor groups entered or re-entered the park on three or more days.

See Appendix 1 for more details.

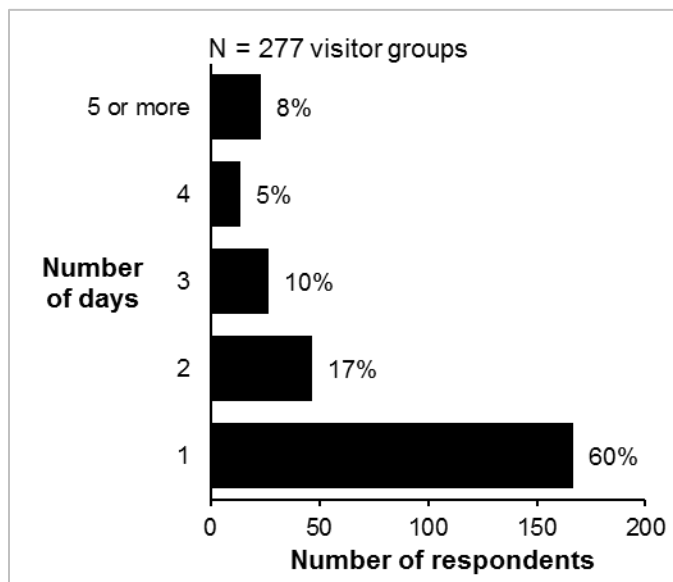


Figure 50. Number of days entered or re-entered park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Overnight stay

Question 27a

On this trip to Glen Canyon NRA and the nearby area, did you stay overnight away from your permanent residence either inside Glen Canyon NRA or within the nearby area (within the shaded area of the map)?

See Figure 14 or Appendix 2 for map.

Results (Figure 51)

- 76% of visitor groups stayed overnight inside Glen Canyon NRA or within the nearby area on this trip.

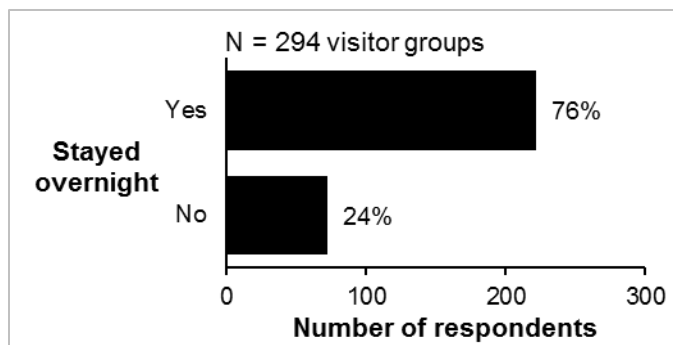


Figure 51. Visitors who stayed overnight in/near Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Nights spent in overnight accommodations

Question 27b

If YES, please list the number of nights you stayed in Glen Canyon NRA and/or in the nearby area (within the shaded area of the map) on this trip.

Results (Figure 52)

- Figure 52 shows the proportions of visitor groups that reported staying one or more nights in one of listed overnight accommodations.
- 37% of visitor groups who stayed overnight one or more nights stayed in lodging outside of Glen Canyon NRA.
- 14% of visitor groups who stayed overnight one or more nights stayed in lodging in Glen Canyon NRA.

See Appendix 1 for more details.

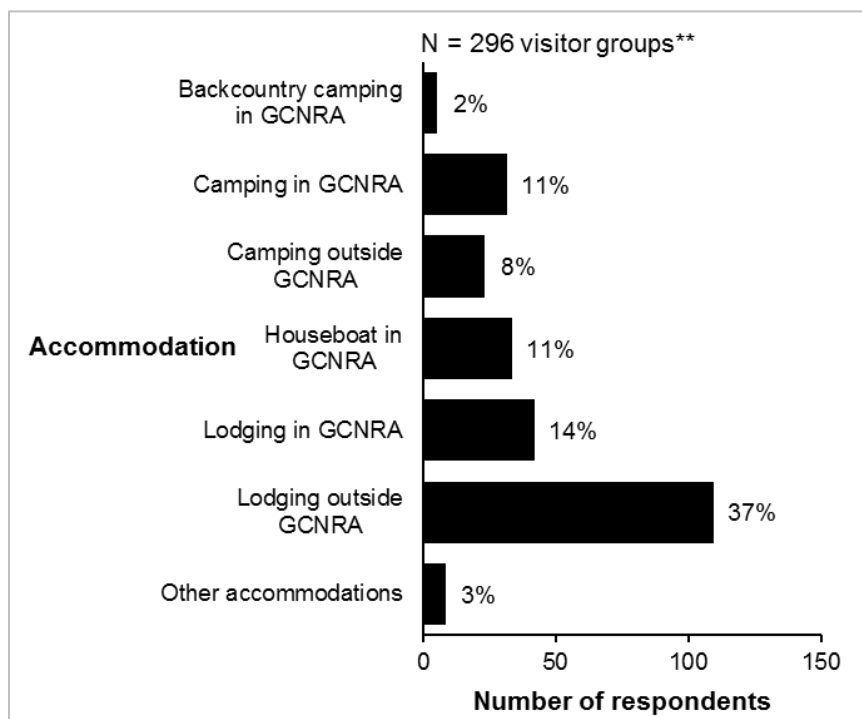


Figure 52. Accommodations for nights spent in Glen Canyon NRA or the nearby area.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Backcountry Camping in Glen Canyon NRA

Results (Figure 53)

- 61% of visitor groups who camped in the backcountry of Glen Canyon NRA camped for two nights.
- 39% of visitor groups who camped in the backcountry of Glen Canyon NRA camped for three or more nights.

See Appendix 1 for more details.

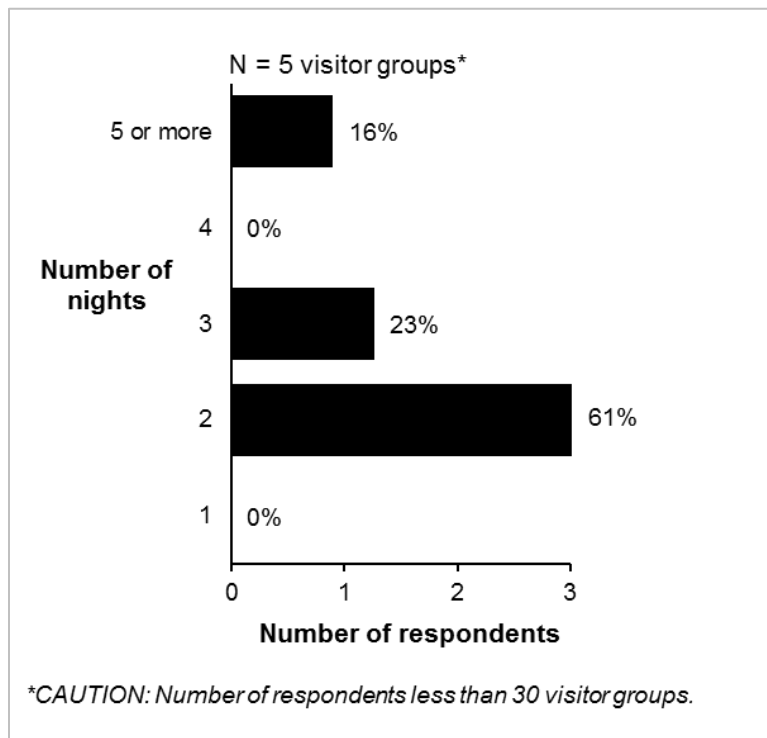


Figure 53. Nights spent in backcountry in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Camping in Glen Canyon NRA

Results (Figure 54)

- 30% of visitor groups who camped in Glen Canyon NRA camped for two nights.
- 25% of visitor groups who camped in Glen Canyon NRA camped for one night.

See Appendix 1 for more details.

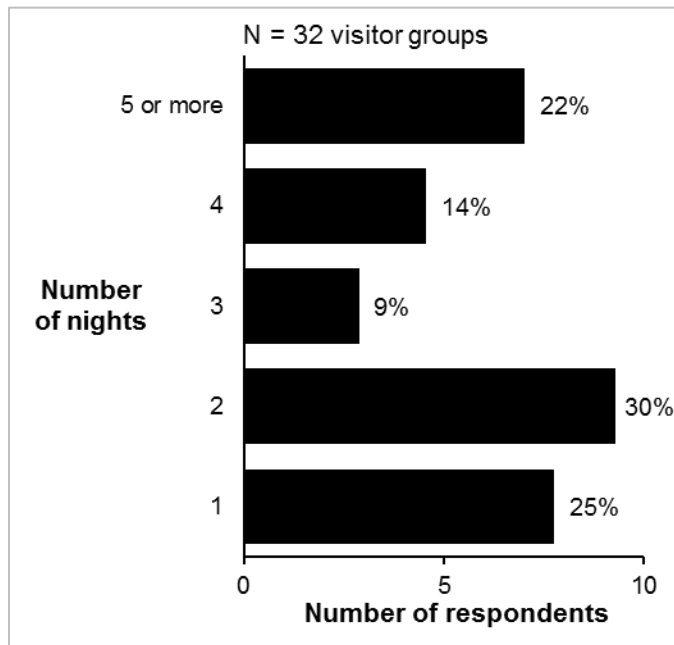


Figure 54. Nights spent in backcountry in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Camping outside Glen Canyon NRA

Results (Figure 55)

- 28% of visitor groups who camped outside Glen Canyon NRA camped for five or more nights.
- 27% of visitor groups who camped outside Glen Canyon NRA camped for one night.
- 27% of visitor groups who camped outside Glen Canyon NRA camped for two nights.

See Appendix 1 for more details.

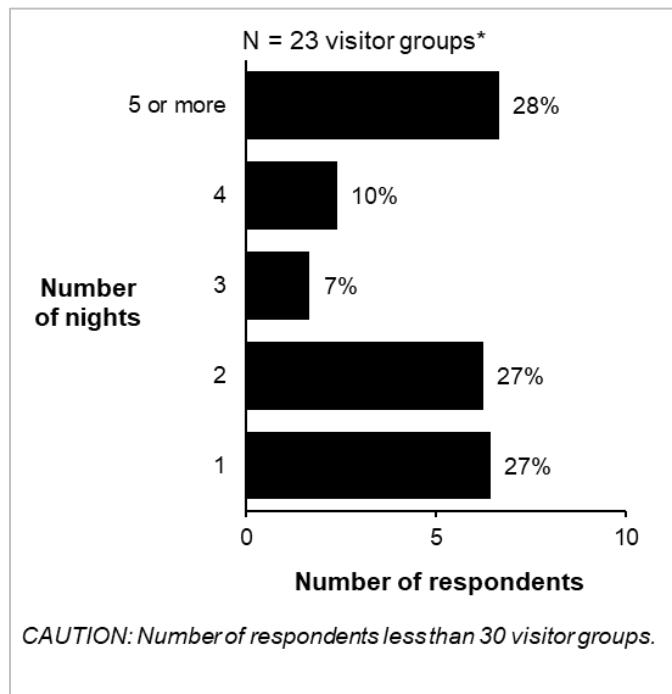


Figure 55. Nights spent camping outside Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Houseboat in Glen Canyon NRA

Results (Figure 56)

- 69% of visitor groups who stayed on a houseboat in Glen Canyon NRA stayed for five or more nights.
- 16% of visitor groups who stayed on a houseboat in Glen Canyon NRA stayed for four nights.

See Appendix 1 for more details.

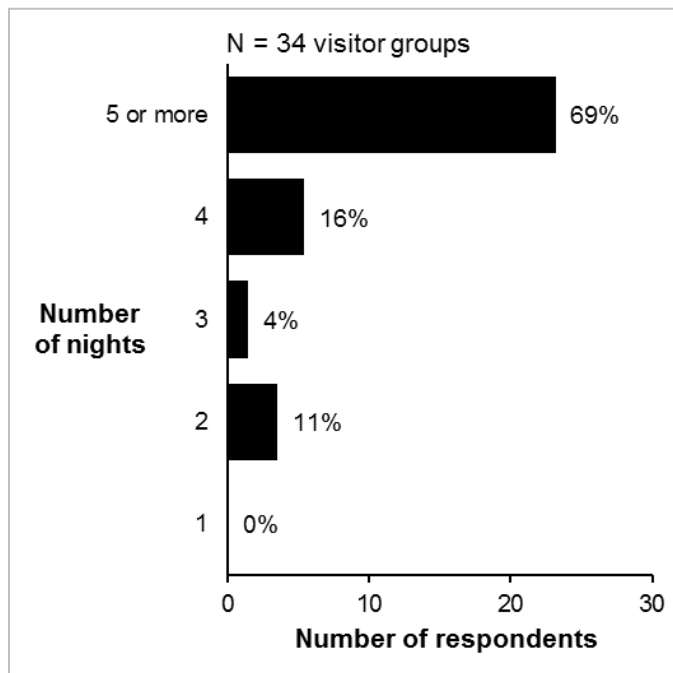


Figure 56. Nights spent camping outside Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Lodging in Glen Canyon NRA

Results (Figure 57)

- 31% of visitor groups who stayed at lodging in Glen Canyon NRA stayed for one night.
- 31% of visitor groups who stayed at lodging in Glen Canyon NRA stayed for two nights.

See Appendix 1 for more details.

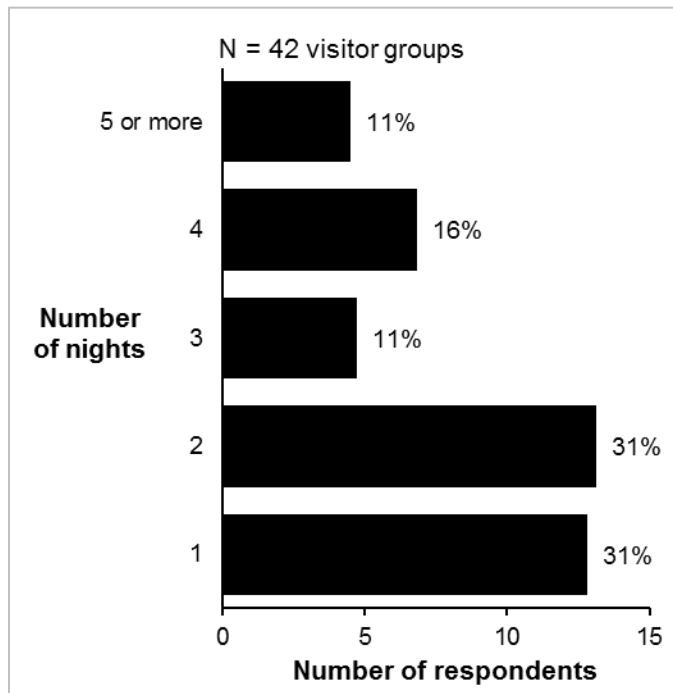


Figure 57. Nights spent in lodging in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Lodging Outside Glen Canyon NRA

Results (Figure 58)

- 39% of visitor groups who stayed at lodging outside Glen Canyon NRA stayed for one night.
- 24% of visitor groups who stayed at lodging outside Glen Canyon NRA stayed for five or more nights.

See Appendix 1 for more details.

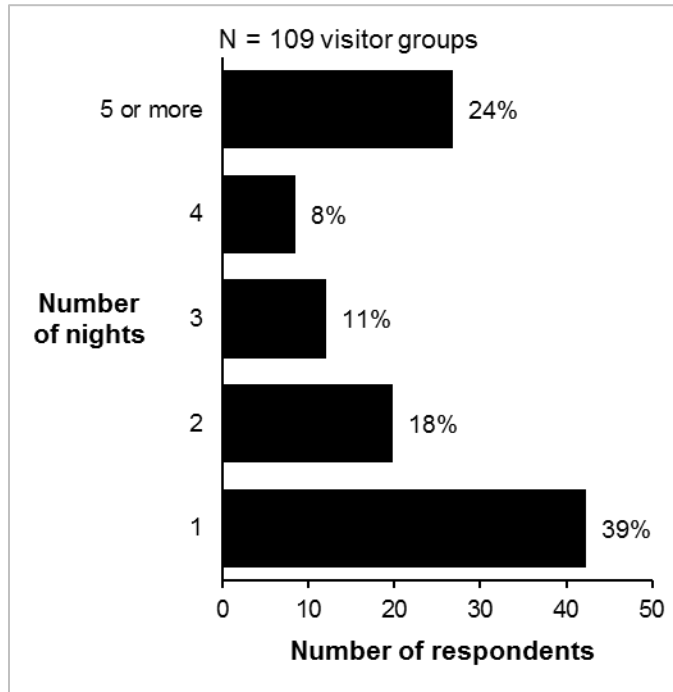


Figure 58. Nights spent in lodging outside Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Other accommodations (e.g., friends/relatives)

Results (Figure 59)

- 34% of visitor groups who stayed overnight in other accommodations stayed for five or more nights.
- 26% of visitor groups who stayed overnight in other accommodations stayed for three nights.

See Appendix 1 for more details.

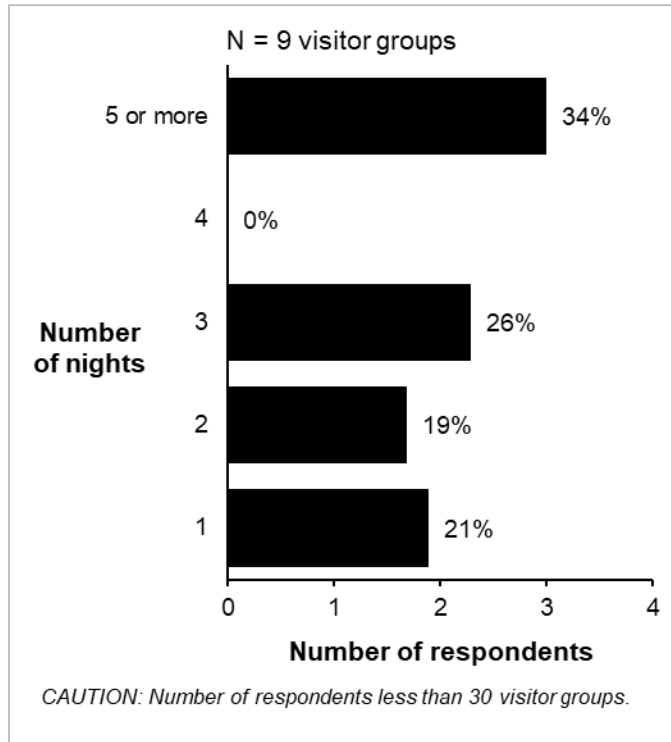


Figure 59. Nights in other accommodations (e.g., friends/relatives).

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visits to other National Park Service sites

Question 29

Did you visit any other National Park Service sites on your trip away from home?

Results (Figure 60)

- 64% of visitor groups visited other NPS units on their trip away from home.

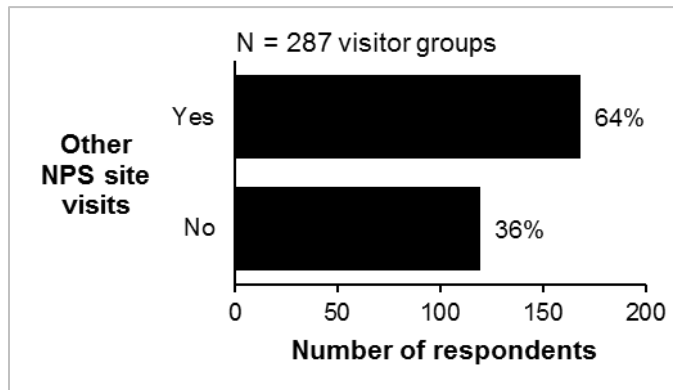


Figure 60. Visited other NPS sites on trip away from home.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Other National Park Service sites visited

Question 29

If YES, please specify other National Park Services sites you visited.

Results (Table 16)

- Of those visitor groups that did visit other NPS units on their trip (58%), the most common other NPS units included:
 - Grand Canyon National Park (mentioned 89 times)
 - Zion National Park (mentioned 79 times)
 - Bryce Canyon National Park (mentioned 64 times)

Table 16. Other National Park Service sites visited. N = 472 comments. Some visitor groups may have visited more than one other NPS site.

Site	Frequency of times mentioned
Grand Canyon National Park	89
Zion National Park	79
Bryce Canyon National Park	64
Arches National Park	36
Canyonlands National Park	24
Capitol Reef National Park	20
Yosemite National Park	15
Yellowstone National Park	14
Petrified Forest National Park	9
Grand Teton National Park	8
Horseshoe Bend National Military Park	8
Grand Staircase-Escalante National Monument	7
Death Valley National Park	6
Mount Rushmore National Memorial	5
Mesa Verde National Park	5
Sunset Crater Volcano National Monument	4
Rocky Mountain National Park	4
Saguaro National Park	4

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Table 16 (continued). Other National Park Service sites visited. N = 472 comments. Some visitor groups may have visited more than one other NPS site.

Site	Frequency of times mentioned
Montezuma Castle National Monument	4
Dinosaur National monument	4
Badlands National Park	4
Walnut Canyon National Monument	4
Canyon de Chelly National Monument	4
Wupatki National Monument	3
Carlsbad Caverns National park	3
Cedar Breaks National Monument	3
Craters of the Moon National Monument and Preserve	2
Sequoia National Park	2
Jewel Cave National Monument	2
Minuteman Missile National Historic Site	2
White Sands National Monument	2
Wind Cave National Park	2
Muir Woods National Monument	2
Natural Bridge National Monument	2
Joshua Tree National Park	2
Golden Gate National Recreation Area	2
Little Bighorn Battlefield National Monument	2
Mount Saint Helens National Volcanic Monument	2
Redwood National Park	2
Scotts Bluff National Monument	2
Other NPS Sites	16

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Activity participation

Question 12

On this trip, in which of the following activities did you personally participate within Glen Canyon NRA?

Results

- As shown in Figure 61, the most common activities in which visitor groups participated were:
 - 76% Viewing wildlife, natural features, scenery, wildflowers, etc.
 - 53% Walking/short hike (<1 hour)
 - 46% Motorized water travel
- Of those who responded “Motorized water travel” (46%), activities in which groups participated in included:
 - “Boating”
 - “Jet skiing”
- Of those who responded “Non-motorized water travel” (19%), activities in which groups participated included:
 - “Kayaking”
 - “Paddle boarding”
- Of those who responded “Water play” (37%), activities in which groups participated included:
 - “Swimming”
 - “Water skiing”
- Of those who responded “Other” (7%), activities in which groups participated included:
 - “Cliff jumping”
 - “Camping”

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

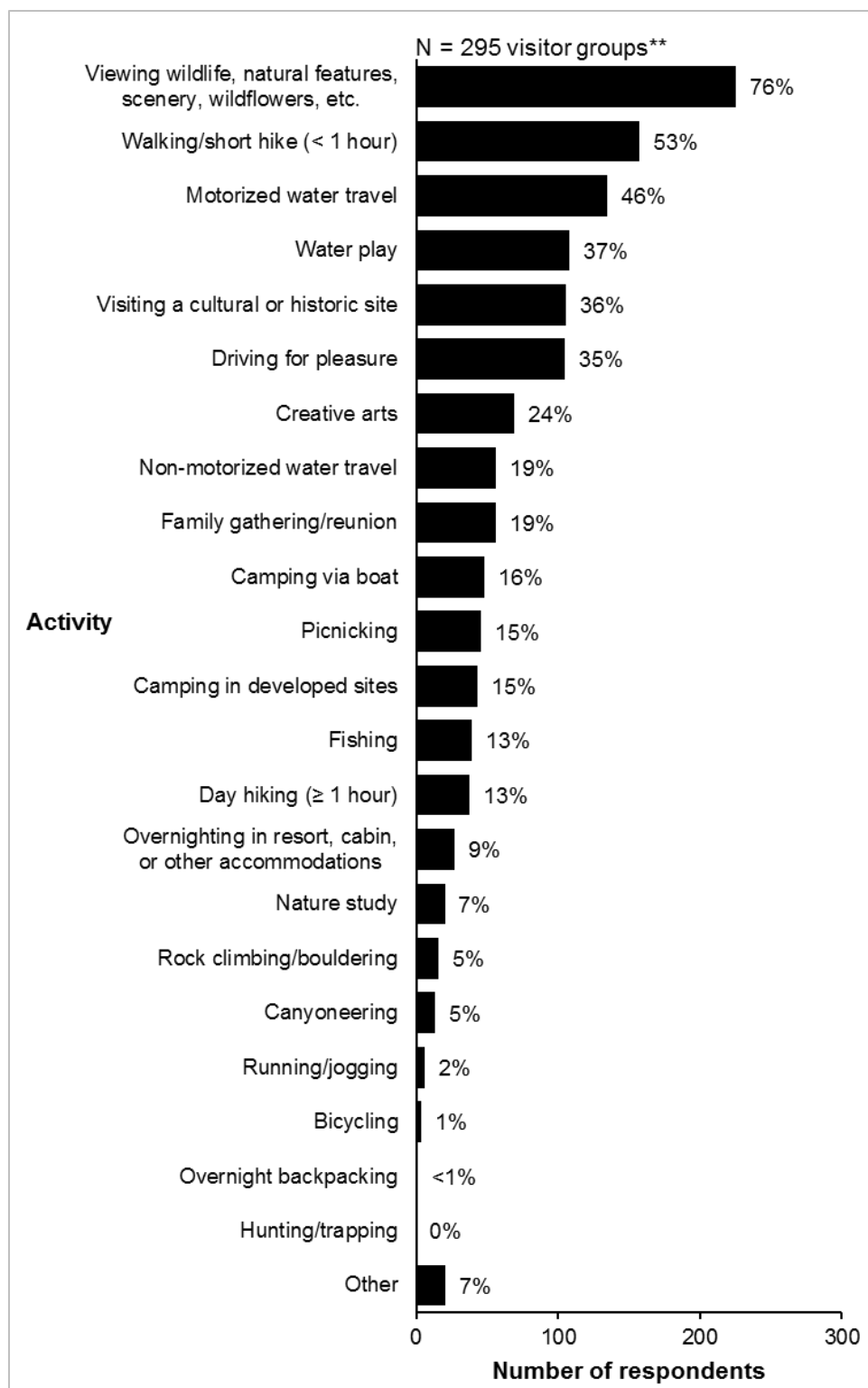


Figure 61. Participation in activities on this trip.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Primary activity on this trip

Question 13

Of the activities listed in Question 12, which was your primary activity during your visit to Glen Canyon NRA on the day you were contacted for this survey?

Results

- As shown in Figure 62, the most common primary activities listed by visitor groups were:
 - 25% Viewing wildlife, natural features, scenery, wildflowers, etc.
 - 24% Motorized water travel
- Of those who responded “Other” (<1%), activities specified included:
 - “Keeping cool”
 - “Dumpster diving”
- 15% of visitor groups did not have a primary activity

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

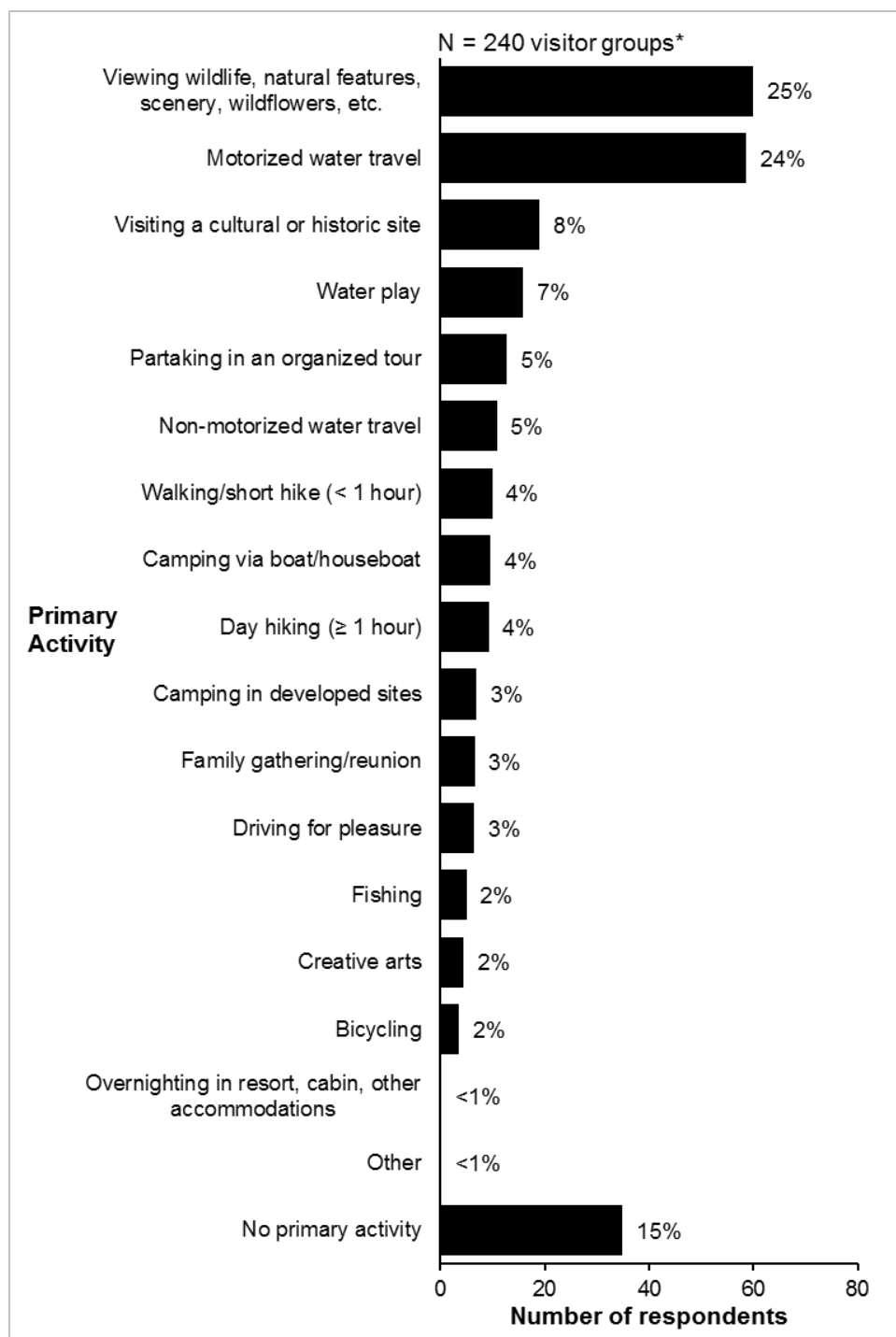


Figure 62. Primary activity on this trip to Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visitors with physical conditions

Question 18a

Did anyone in your personal group have a physical condition that made it difficult to access or participate in park activities or services, during your visit to Glen Canyon NRA?

Results (Figure 63)

- 4% of visitor groups had members with physical conditions that made it difficult to access or participate in park activities or services.

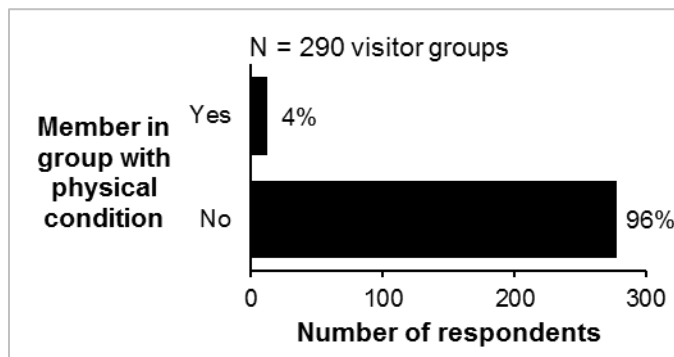


Figure 63. Visitors with physical conditions.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 18b

If YES, what activities, services, or facilities did the person(s) have difficulty participating in or accessing? (open-ended)

Results (Table 17)

- “Wheelchair accessibility” and “walking” were the most frequently mentioned (mentioned three times each) activities in which members of visitor groups had difficulty.

Table 17. Activities/services/facilities difficult to participate in/access. N = 11 comments. Some visitor groups may have made more than one comment.

Activity, service, or facility	Frequency of times mentioned
Wheelchair accessibility	3
Walking	3
Hiking/climbing	2
Stairs/steep inclines	1
Heat	1
Low vision	1

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 18c

Because of the physical condition, which specified difficulties did the person(s) have?

Results (Figure 64)

- Of visitor groups that had at least one member with a physical condition, the member(s) had specific difficulties with:
 - 84% Mobility
 - 18% Other
 - Of those who responded “Other” (18%), specific difficulties included:
 - “Getting from launch ramp to houseboat”

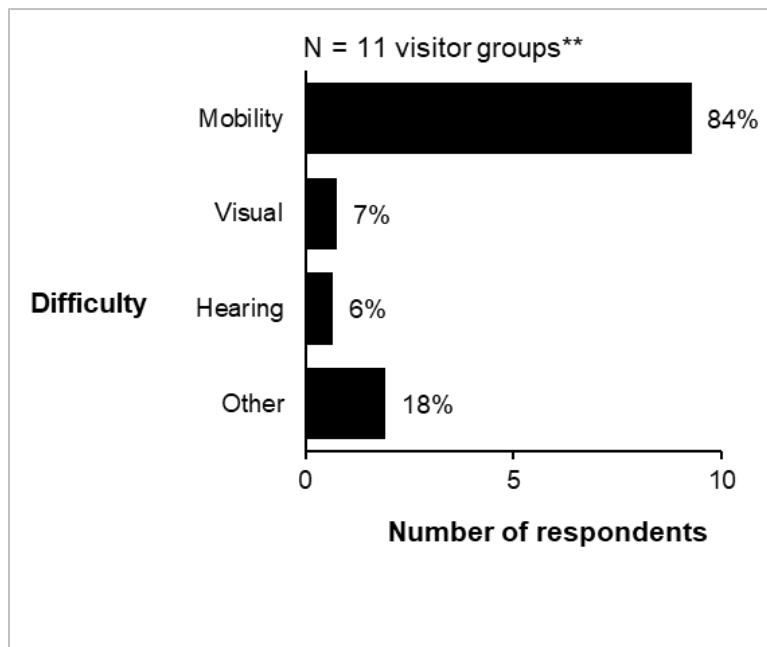


Figure 64. Specific difficulties had by visitor group member(s).

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Programs and services participation

Question 14

On this trip, in which of the following programs and services did you personally participate within Glen Canyon NRA?

Results

- As shown in Figure 65, the most common programs and services in which visitor groups participated were:
 - 52% Going to the Visitor Center
 - 40% Reading the park brochure or newspaper
 - 36% Viewing outdoor exhibits
- Of those who responded “Other” (15%), programs and services included:
 - “Informal conversation with Security Guard”
 - “Meeting new people”

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

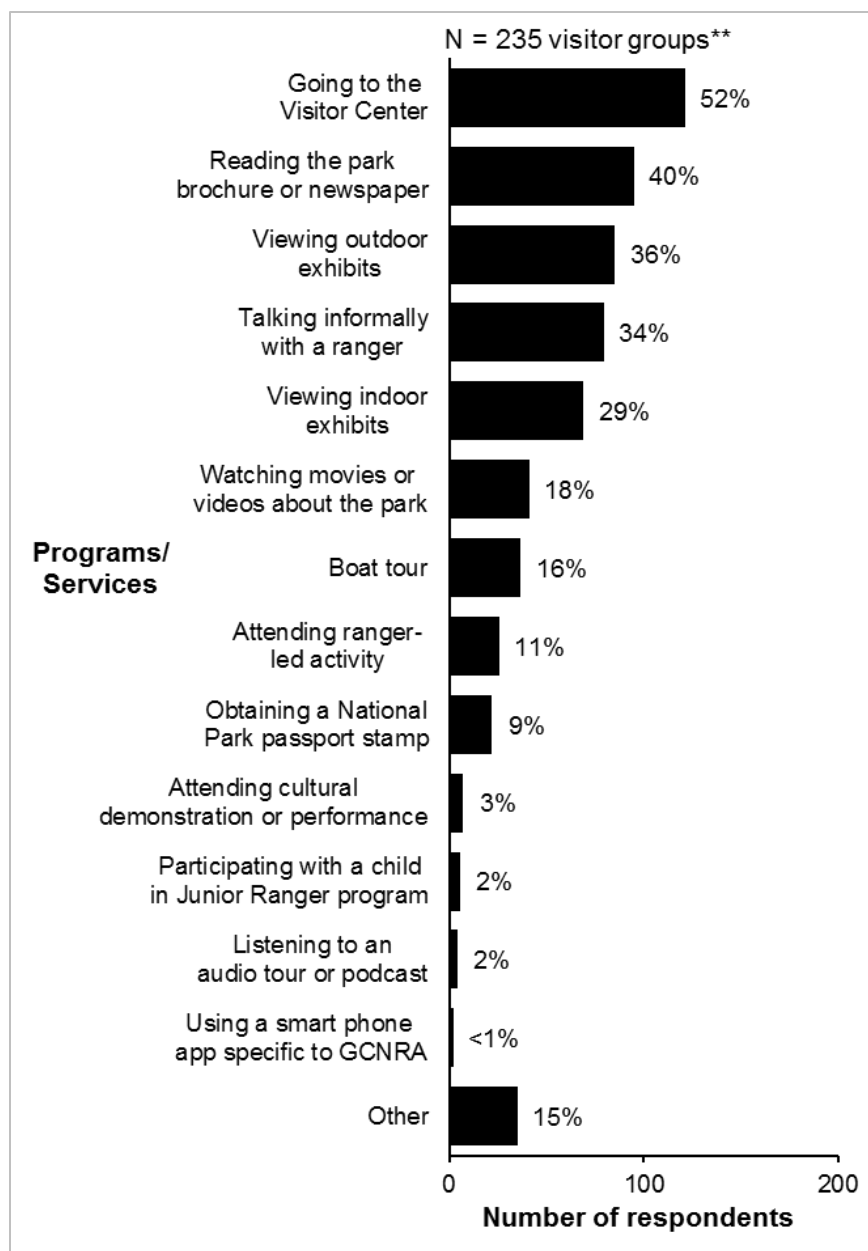


Figure 65. Participation in programs and services.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Learning from park staff, programs, and/or exhibits

Question 15

On this visit to Glen Canyon NRA, did you learn anything from park staff, programs, and/or exhibits about American history, nature, and/or culture?

Results (Figure 66)

- 33% of visitors learned something from park staff, programs and/or exhibits about American history, nature, and/or culture.

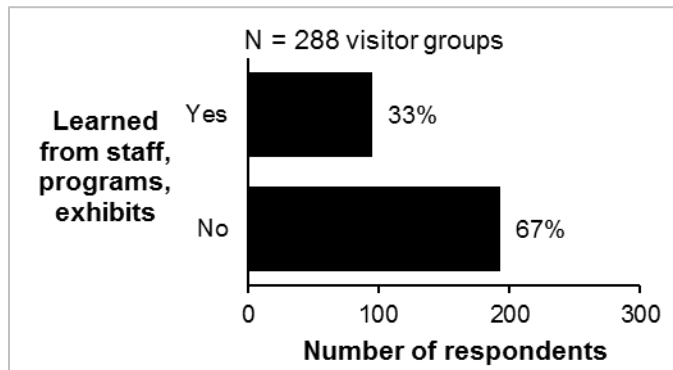


Figure 66. Visitors who learned something from park staff, programs, and/or exhibits.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 15

If YES, please specify subjects you learned about (open-ended).

Results (Table 18)

- Table 18 shows the subjects visitors learned about from park staff, programs, and/or exhibits. The most frequently mentioned subjects were:
 - “Construction of the dam” (mentioned 17 times)
 - “Lake Powell” (mentioned 15 times)

Table 18. Subjects learned. N = 139 comments. Some visitor groups may have made more than one comment.

Aspect	Frequency of times mentioned
Construction of the dam	17
Lake Powell	15
Glen Canyon Dam	12
History	12
Geologic features/natural attractions	11
Native people & culture	11
Geology	9
Need for water	8
Nature	7
Rainbow bridge	7
Wayfinding information	5
History of the dam	5
Recreation	3
Environmental issues	2
Other subjects	13

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Learning about subjects on future visits

Question 16

If you were to visit Glen Canyon NRA in the future, are there specific subjects you would like to learn about?

Results (Figure 67)

- 81% of visitors did not have specific subjects they would like to learn about on a future visit to Glen Canyon NRA.

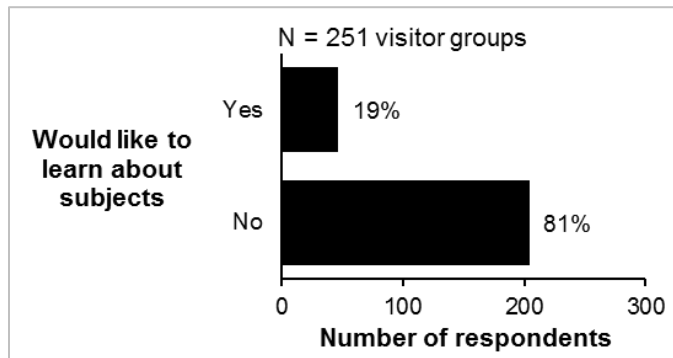


Figure 67. Visitors who would like to learn about specific subjects on future visits.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 16

If YES, please specify subjects you would like to learn about (open-ended).

Results (Table 19)

- Table 19 shows the subjects visitors would like to learn about on future visits to Glen Canyon NRA. The most frequently mentioned subjects were:
 - “Recreational activities” (mentioned 13 times)
 - “History” (mentioned 10 times)
 - “Glen Canyon Dam” (mentioned 10 times)

Table 19. Subjects visitors would like to learn. N = 72 comments. Some visitor groups may have made more than one comment.

Aspect	Frequency of times mentioned
Recreational activities	13
History	10
Glen Canyon Dam	10
Geology	7
Native Americans	4
Horseshoe Bend	3
Cultural or historic sites	3
Wildlife	2
Star gazing	2
Glen Canyon before the dam	2
Cultural information	2
Other subjects	15

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Expenditures

Purchase of package tour(s)

Question 30a

Did you or anyone in your personal group purchase any package tours that included at least some meals, some lodging, and/or some transportation while on this trip?

Results (Figure 68)

- 17% of visitor groups had at least one member who purchased a package tour.

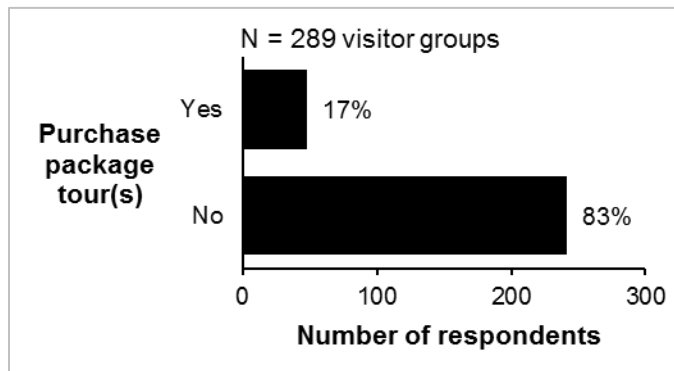


Figure 68. Visitor groups with member(s) who purchased packaged tour(s).

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 30b

If YES, what was the total length of your package tour(s)?

Results (Figure 69)

- Of the 17% of visitor groups who purchased a package tour:
 - 54% purchased a package tour with a total length of two or more days.
 - 46% purchased a package tour with a total length of one day.

See Appendix 1 for more details.

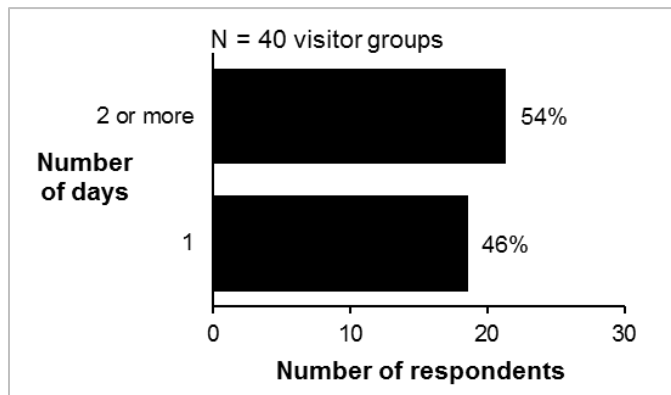


Figure 69. Total length of package tour(s) purchased by at least one group member.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 30c

If YES, what was the total cost per person for the package tour(s)?

Results (Figure 70)

- Of the 17% of visitor groups who purchased a package tour:
 - 50% purchased a package tour with a total cost of \$201 or more per person.

See Appendix 1 for more details.

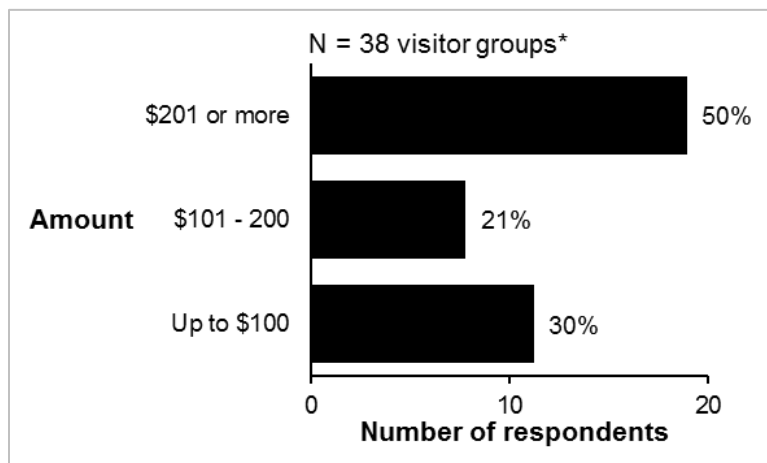


Figure 70. Total cost per person for package tour(s) purchased by at least one group member.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 30d

If YES, how many people in your personal group were on the package tour(s)?

Results (Figure 71)

- Of the 17% of visitor groups who purchased a package tour:
 - 41% were on a package tour with two people.
 - 28% were on a package tour with three people.

See Appendix 1 for more details.

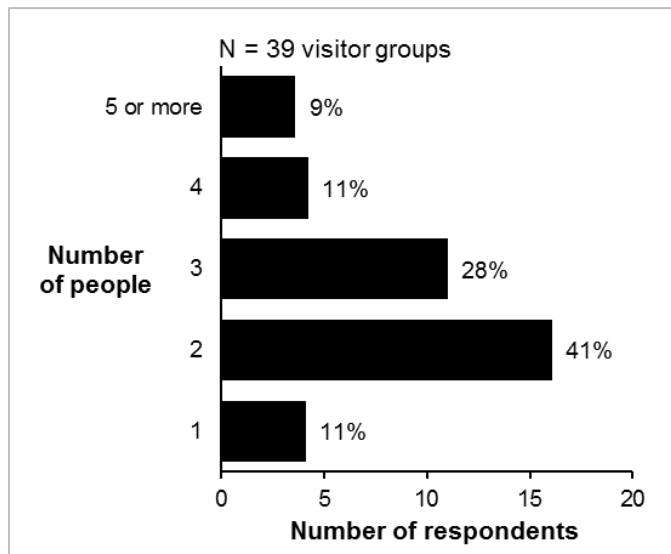


Figure 71. Number of group members on package tour(s) purchased by at least one group member.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Items included in package tour(s) as a part of visit

Question 30e

If YES, which of the following were included in the package tour(s) as part of your visit to Glen Canyon NRA and the nearby area (within the shaded area of the map)?

Results (Figure 72)

- Of the 17% of visitor groups who purchased a package tour, the most common items that were included in the package tours purchased were:
 - 58% Guide services
 - 58% Local ground transportation
 - 51% Meals
- Of those who responded “Other” (4%), there were no specified items.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

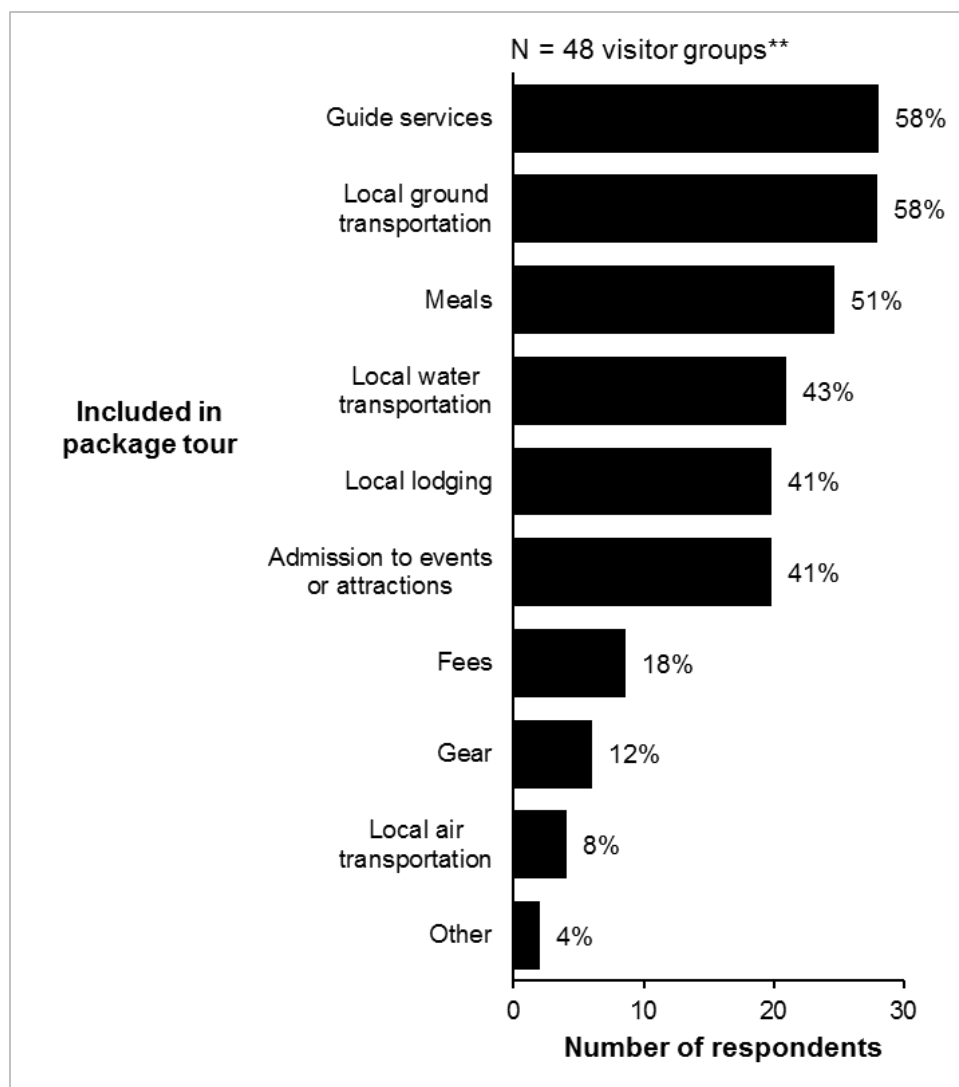


Figure 72. Items included in package tour(s) purchased by at least one group member.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Total expenditures inside Glen Canyon NRA and nearby area

Question 31

Please estimate how much you and your personal group with whom you shared expenses (e.g., other family members, traveling companions) spent both inside Glen Canyon NRA and within the nearby area (within the shaded area of the map) during your time in the nearby area. If you reported expenditures for package tours, please only include individual expenses that were NOT part of your package tour(s).

Note: Residents living with the highlighted area of the map should only include expenditures that were directly related to this trip in Glen Canyon NRA

See Figure 14 or Appendix 2 for map.

Results – group expenditures excluding package tour expenses (Figure 73)

- 39% of visitor groups spent \$1 to \$500 in Glen Canyon NRA and the nearby area.
- 22% of visitor groups spent \$501 to \$1,000 in Glen Canyon NRA and the nearby area.

See Appendix 1 for more details.

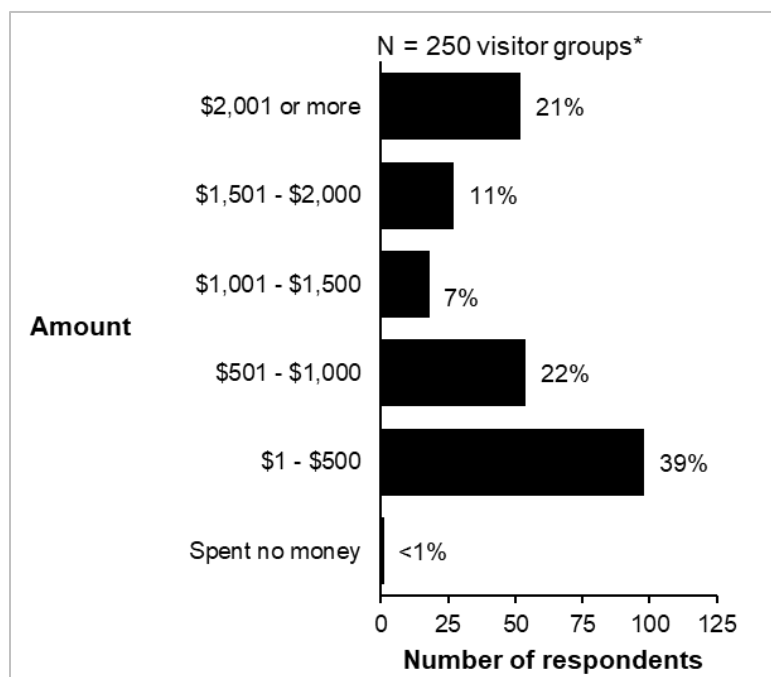


Figure 73. Total expenditures inside the park and in nearby area.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Percentages of total expenditures inside park and nearby area

Question 31

Please estimate how much you and your personal group with whom you shared expenses (e.g., other family members, traveling companions) spent both inside Glen Canyon NRA and within the nearby area (within the shaded area of the map on) during your time in the nearby area.

See Figure 14 or Appendix 2 for map.

Results (Figure 74)

- Percentages of group expenditures (excluding package tour expenses):
 - 19% Hotels, motels, resorts
 - 14% Gas/oil
 - 12% Boat and houseboat rental

See Appendix 1 for more details.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

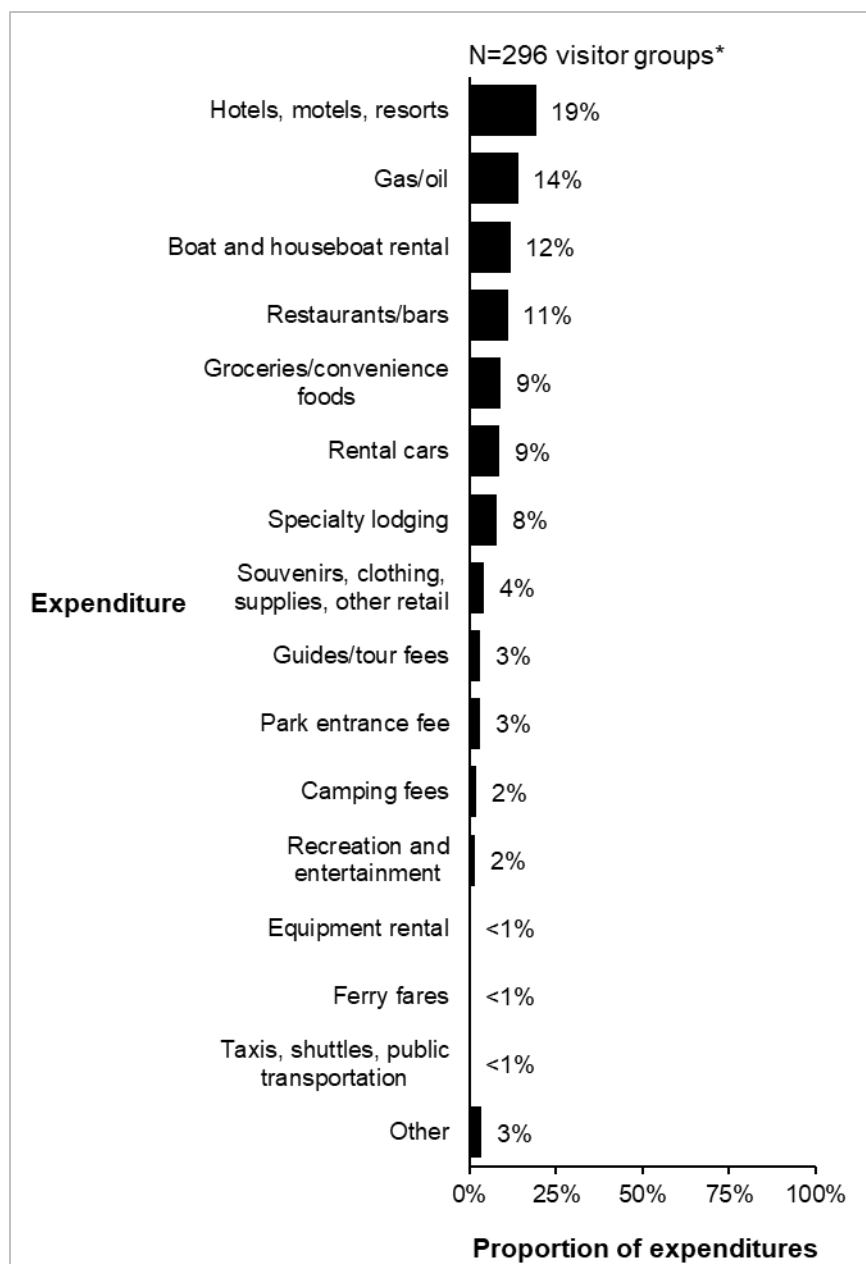


Figure 74. Percentages of total expenditures within the park and nearby area.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Number of people covered by expenses

Question 33a

Including yourself, how many people in your personal group were covered by the expenses for this trip away from home?

Results (Figure 75)

- 33% of visitor groups had two members covered by expenses.
- 30% of visitor groups had five or more members covered by expenses.

See Appendix 1 for more details.

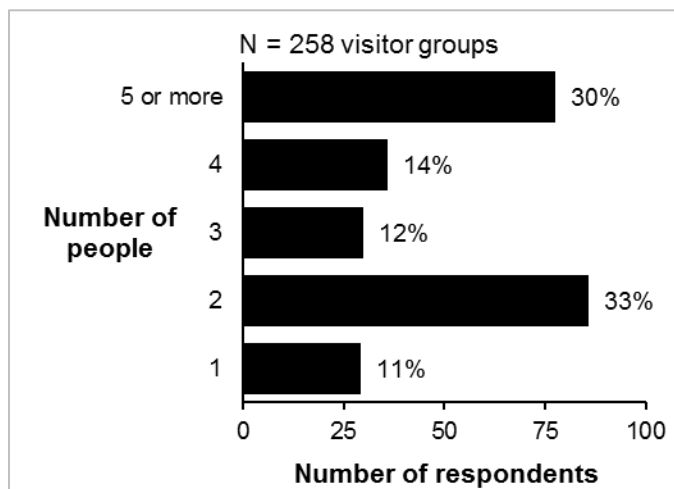


Figure 75. Visitors covered by expenses.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Adults covered by expenses

Question 33a

Including yourself, how many adults (18 years or over) in your personal group were covered by the expenses for this trip away from home?

Results (Figure 76)

- 47% of visitor groups had two adults covered by expenses.
- 20% of visitor groups had five or more adults covered by expenses.

See Appendix 1 for more details.

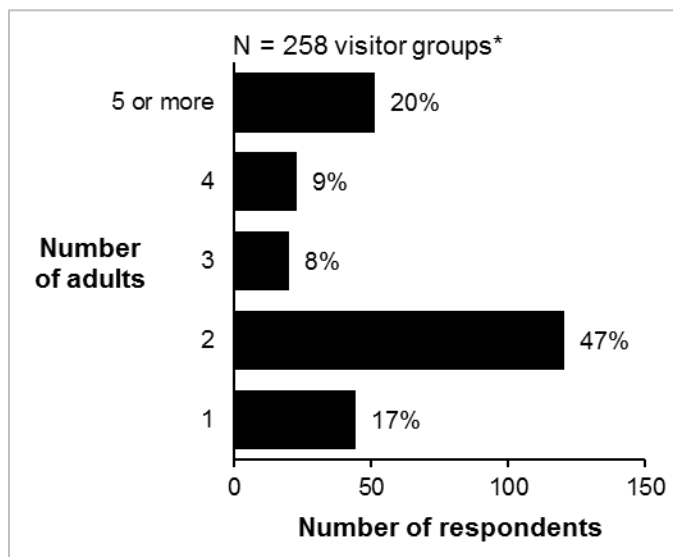


Figure 76. Adults covered by expenses.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Children covered by expenses

Question 33a

How many children (under 18 years) in your personal group were covered by the expenses for this trip away from home?

Results (Figure 77)

- 65% of visitor groups had no children covered by expenses.
- 13% of visitor groups had two children covered by expenses.

See Appendix 1 for more details.

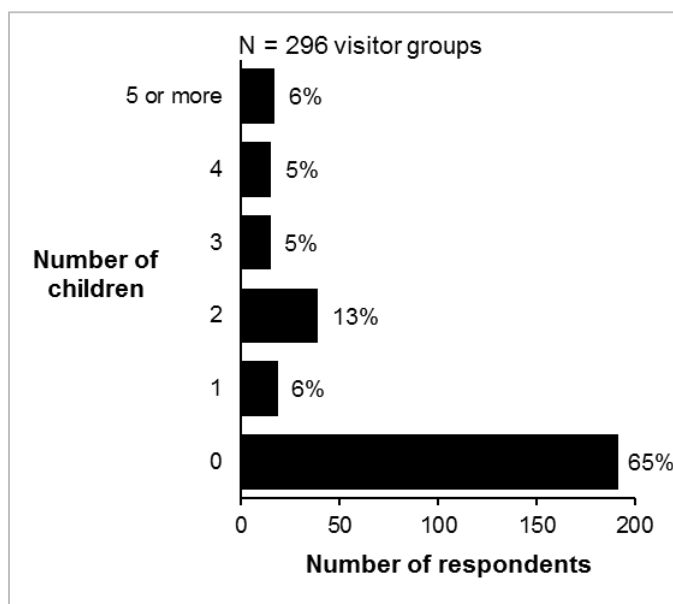


Figure 77. Children covered by expenses.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Sharing of expenses

Question 33b

Including yourself, how many people in your group split these trip expenses?

Results (Figure 78)

- 49% of visitor groups had two people split trip expenses.
- 22% of visitor groups did not split the expenses on this trip.

See Appendix 1 for more details.

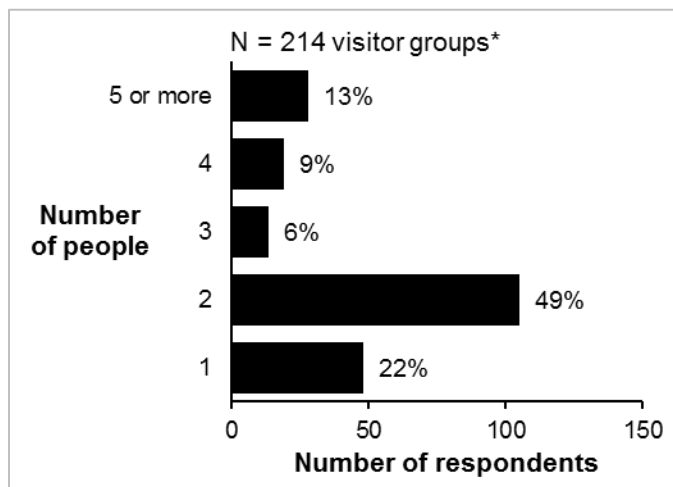


Figure 78. Sharing of expenses in visitor group.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Total expenditures outside of park and nearby area

Question 32

For you and any members of your personal group with whom you shared expenses, please record any additional money spent outside of the map area during your trip away from home (for example, travel or food expenditures).

Results (Figure 79)

- 34% of visitor groups spent \$1 to \$250 on additional expenses outside of Glen Canyon NRA and the nearby area.
- 23% of visitor groups spent \$1,001 or more on additional expenses outside of Glen Canyon NRA and the nearby area.

See Appendix 1 for more details.

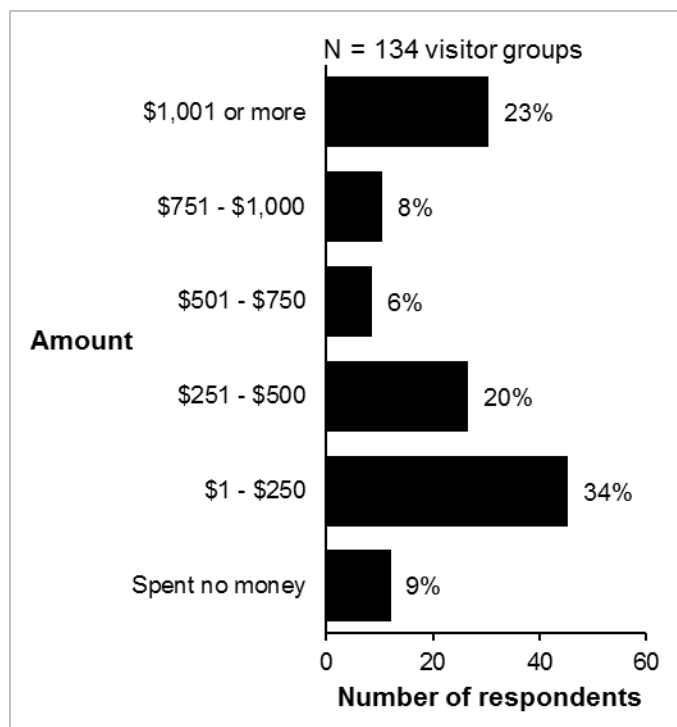


Figure 79. Total expenditures outside of park and nearby area.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Evaluations of Park Experience and Post-Trip Experience

Aspects most liked about visit to Glen Canyon NRA

Question 19

What did you like most about your visit to Glen Canyon NRA (open-ended)?

Results (Table 20)

- Table 20 shows the aspects visitor groups liked most about their visit. The most frequently mentioned aspect was “scenery & views” (mentioned 95 times).

Table 20. Aspects most liked about visit. N = 393 comments. Some visitor groups may have made more than one comment.

Aspect	Frequency of times mentioned
Scenery & views	95
Water activities	22
Boating	20
Time with family & friends	20
Natural beauty	20
Horseshoe Bend	17
Lake Powell	17
Water	16
Glen Canyon Dam	12
Park staff	11
Nature	11
Organized tours	10
Canyons	10
Geologic features/natural attractions	8
Visitor Center	7
Peaceful	7
Solitude	6
Wildlife	6
Quiet	5
Not overcrowded	4

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Table 20 (continued). Aspects most liked about visit. N = 393 comments. Some visitor groups may have made more than one comment.

Aspect	Frequency of times mentioned
Beaches	4
History	4
Swimming	4
Relaxing	4
Fishing	4
Weather	4
Easy water access	3
Well maintained	3
Exhibits	3
Hiking	3
House boating	3
Everything	2
Primitive conditions	2
Other aspects	28

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Aspects least liked about visit to Glen Canyon NRA

Question 20

What did you like least about your visit to Glen Canyon NRA (open-ended)?

Results (Table 21)

- Table 21 shows the aspects visitor groups least liked about their visit. The most frequently mentioned aspects were:
 - “Heat” (mentioned 51 times)
 - “Crowded” (mentioned 26 times)
 - “Need more/better guest accommodations” (mentioned 14 times)

Table 21. Aspects least liked about visit. N = 202 comments. Some visitor groups may have made more than one comment.

Aspect	Frequency of times mentioned
Heat	51
Crowded	26
Need more/better guest accommodations	14
Not enough time	13
Poor internet and cell service	10
Liked everything	10
Expensive	8
Water conditions	8
Other visitors	7
Litter	6
Invasive species	4
Tour	4
Road conditions	3
Boat troubles	3
Insects	3
Other aspects	33

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Expectations for visit to Glen Canyon NRA

Question 21

Did your visit to Glen Canyon NRA, on this trip, meet your expectations?

Results (Figure 80)

- 91% of visitor groups had their expectations met during their visit to Glen Canyon NRA, on this trip.
- Of those who responded “Not at all” (<1%), reasons mentioned included:
 - “Poor marina service”
 - “Expensive”

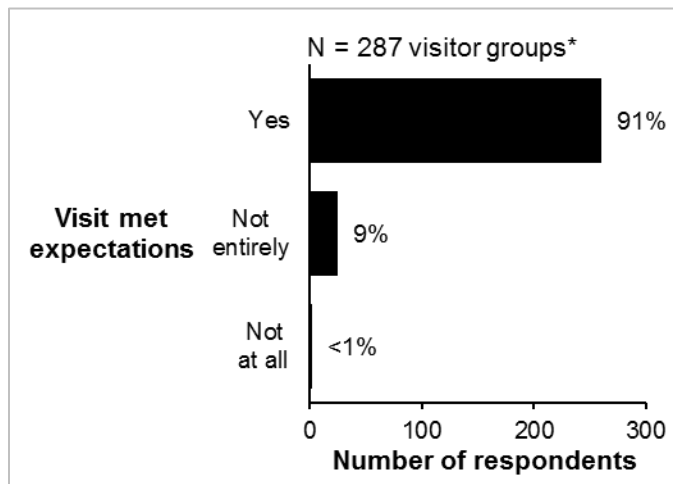


Figure 80. Meeting of expectations for visit on this trip.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Question 21

If NOT ENTIRELY, please explain (open-ended).

Results (Table 22)

- Table 22 shows the reasons visitor groups' expectation were "not entirely" met. The most frequently mentioned reasons were:
 - "Poor marina service" (mentioned five times)
 - "Not enough time" (mentioned four times)
 - "Need to improve accommodations" (mentioned four times)

Table 22. Reasons expectations were "not entirely" met. N = 33 comments. Some visitor groups may have made more than one comment.

Reason	Frequency of times mentioned
Poor marina service	5
Not enough time	4
Need to improve accommodations	4
Expensive	3
Had a great experience	3
Had no expectations	3
Need to improve beach conditions	2
Other reasons	8

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Importance of use of personal electronic devices

Question 17

How important to you was it during your visit to Glen Canyon NRA to use personal electronic devices to do each of the following, and how would you rate the quality of the service in Glen Canyon NRA required to do each?

Rating choices:

- 1 = Extremely important
- 2 = Very important
- 3 = Moderately important
- 4 = Slightly important
- 5 = Not at all important

Results (Figure 81)

- Figure 81 shows the combined proportions of “extremely important” and “very important” ratings for use of a personal electronic device.
- The uses that received the highest combined proportions of “extremely important” and “very important” ratings were:
 - 38% Make/receive cell phone call
 - 35% Send/receive text message
 - 27% Search the internet
- Of those who responded “other” (N = 58), uses included:
 - “Take photos”
 - “Navigation”

See Appendix 1 for more details.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

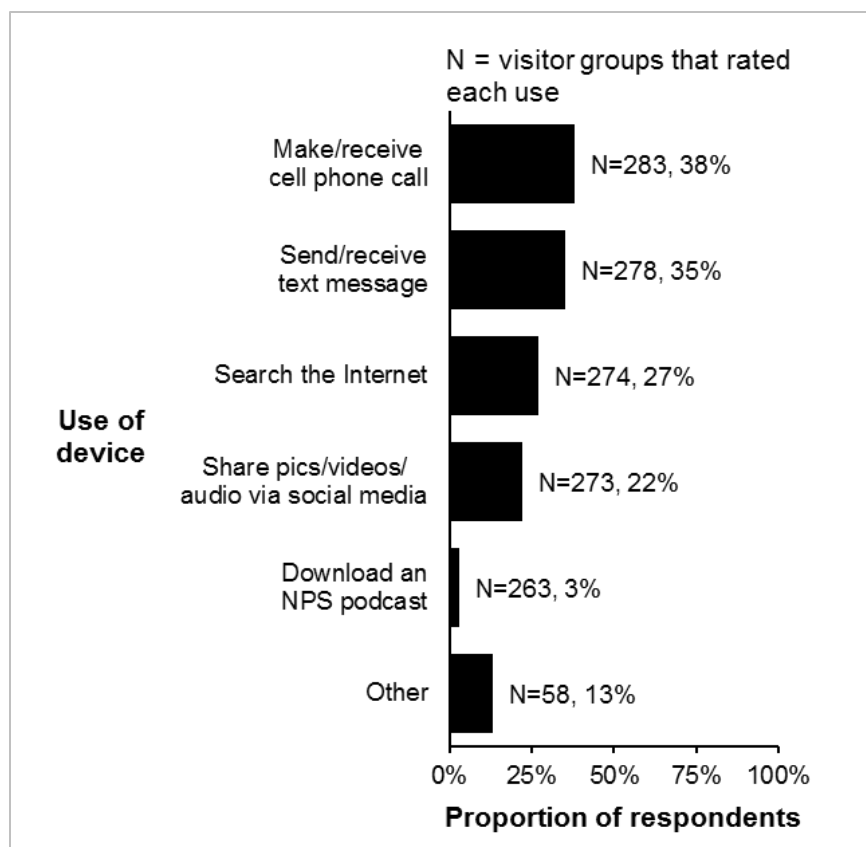


Figure 81. Importance of using personal electronic devices.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Quality of service required to use personal electronic devices

Question 17

How important to you was it during your visit to Glen Canyon NRA to use personal electronic devices to do each of the following, and how would you rate the quality of the service in Glen Canyon NRA required to do each?

Rating choices:

- 1 = Very good
- 2 = Good
- 3 = Average
- 4 = Poor
- 5 = No service at all
- 99 = Not applicable

Results (Figure 82)

- Figure 82 shows the combined proportions of “very good” and “good” ratings for quality of service required to use a personal electronic device.
- The uses that received the highest combined proportions of “very good” and “good” ratings for quality of service required were:
 - 47% Make/receive cell phone call
 - 43% Send/receive text message
 - 38% Send pics/videos/audio via social media
- Of those who responded “Other” (N=23), uses included:
 - “Take photos”
 - “GPS”
 - “Access weather reports”

See Appendix 1 for more details.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

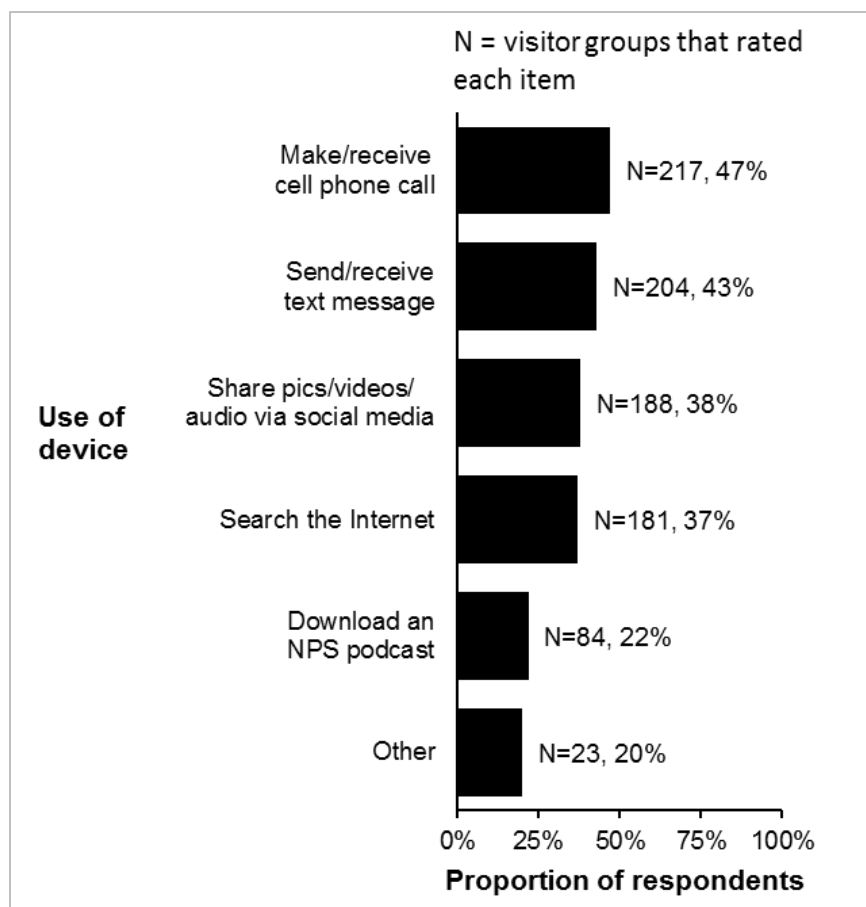


Figure 82. Quality of service required to use personal electronic devices.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Mean scores of importance and quality ratings for use of personal electronic devices

Question 17

- Figure 83 shows the mean scores of importance and quality ratings for all uses of personal electronic devices.
- All uses of personal electronic devices were rated relatively unimportant.
- The quality of service required was rated relatively average to poor for each use.

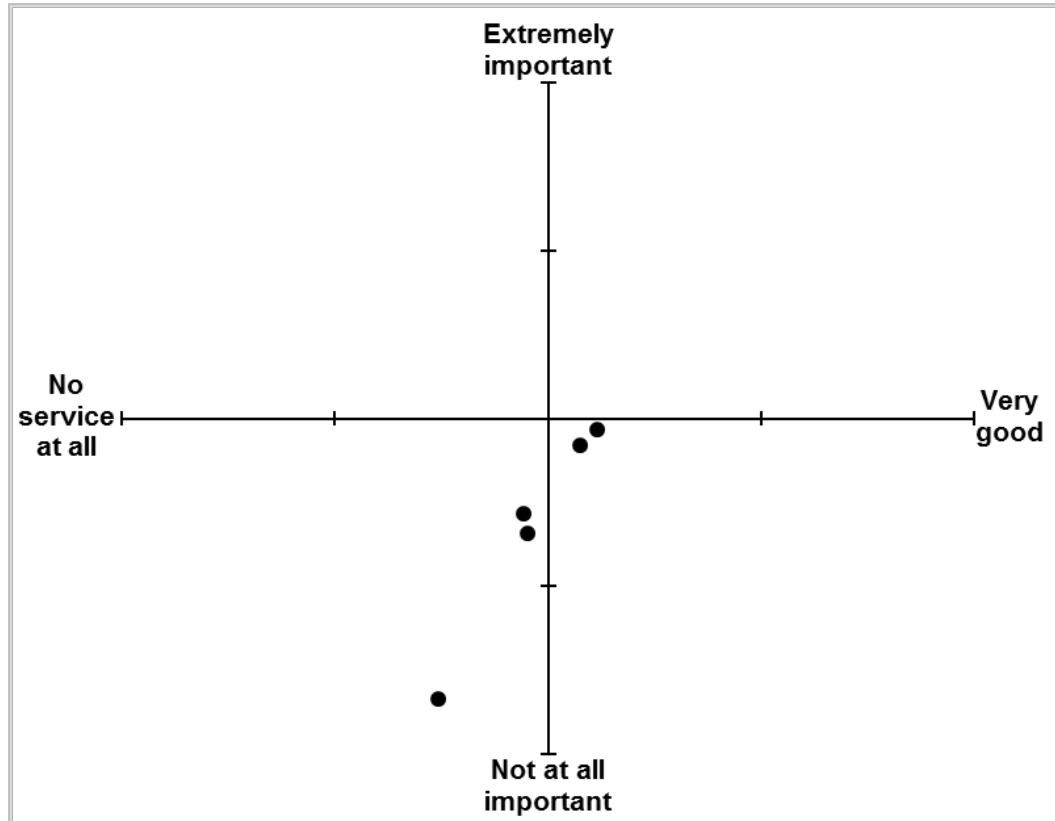


Figure 83. Mean scores for importance and quality ratings for use of personal electronic devices.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Safety

Question 22

To what extent do you agree or disagree with each of the following statements?

Glen Canyon NRA is a safe place to visit.

Results (Figure 84)

- 47% of visitor groups agreed that Glen Canyon NRA is a safe place to visit.
- 43% of visitor groups strongly agreed with this statement.

See Appendix 1 for more details.

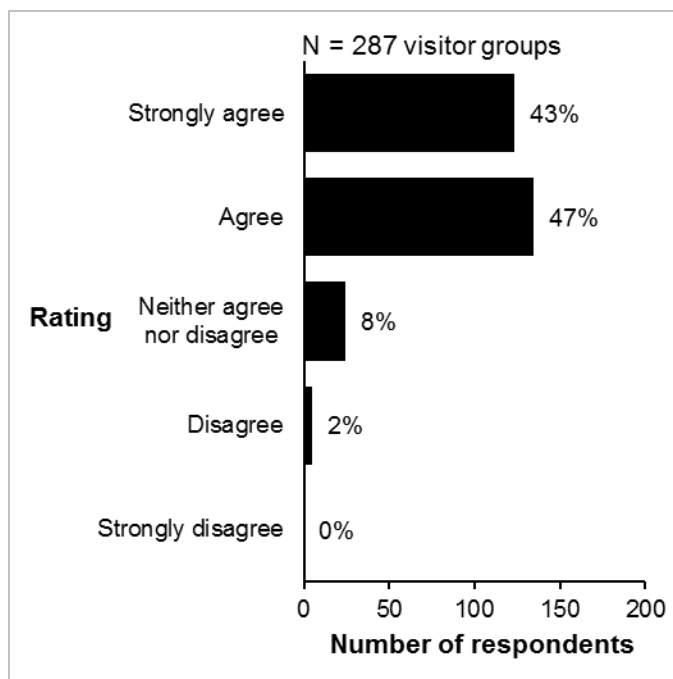


Figure 84. Extent of agreement/disagreement with statement on safety of Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Crowding

Question 22

To what extent do you agree or disagree with each of the following statements?

Glen Canyon NRA is too crowded.

Results (Figure 85)

- 35% of visitor groups neither agreed nor disagreed that Glen Canyon NRA is too crowded.
- 34% of visitor groups disagreed with this statement.

See Appendix 1 for more details.

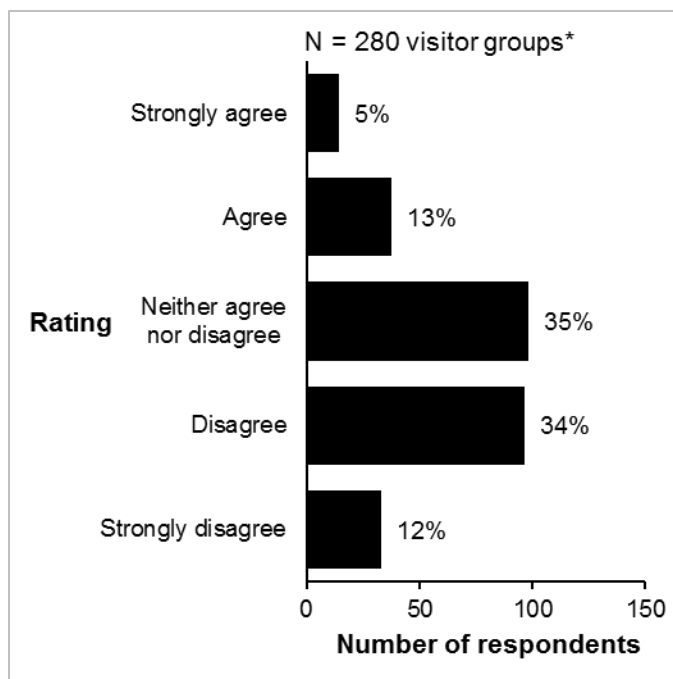


Figure 85. Extent of agreement/disagreement with statement on crowding in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Condition of natural resources

Question 22

To what extent do you agree or disagree with each of the following statements?

Natural resources in Glen Canyon NRA are in pristine condition.

Results (Figure 86)

- 53% of visitor groups agreed that natural resources in Glen Canyon NRA are in pristine conditions.
- 22% of visitor groups neither agreed nor disagreed with this statement.

See Appendix 1 for more details.

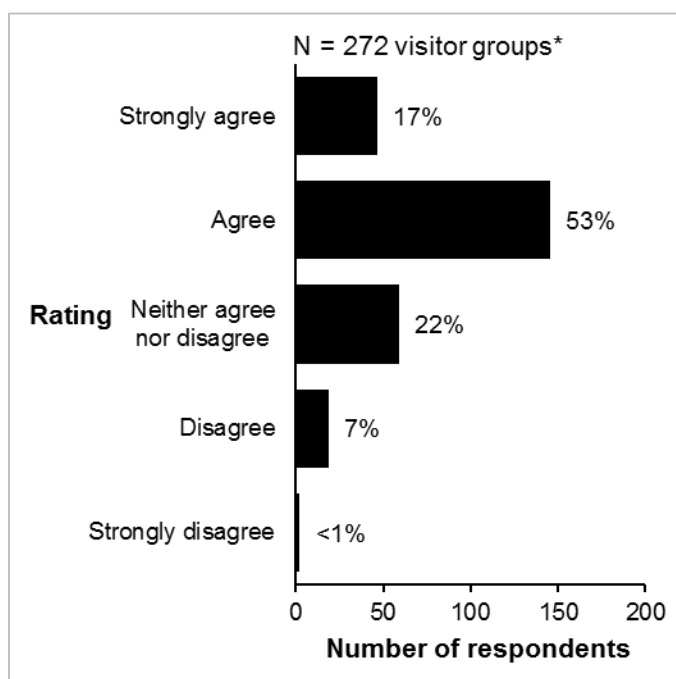


Figure 86. Extent of agreement/disagreement with statement on condition of natural resources in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Entrance fee

Question 22

To what extent do you agree or disagree with each of the following statements?

The entrance fee for Glen Canyon NRA is too high.

Results (Figure 87)

- 34% of visitor groups neither agreed nor disagreed that the entrance fee for Glen Canyon NRA is too high.
- 30% of visitor groups disagreed with this statement.

See Appendix 1 for more details.

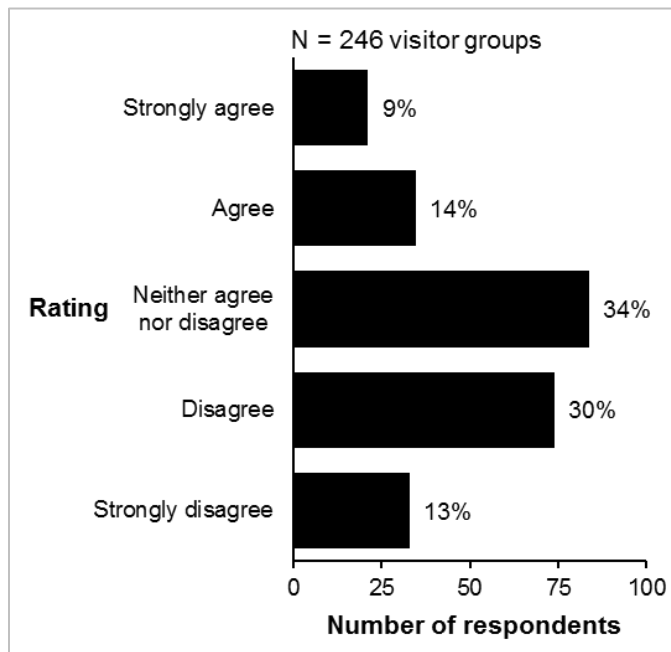


Figure 87. Extent of agreement/disagreement with statement on entrance fee for Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Vandalism and crime

Question 22

To what extent do you agree or disagree with each of the following statements?

Vandalism and crime are not a problem in Glen Canyon NRA.

Results (Figure 88)

- 43% of visitor groups agreed that vandalism and crime are not a problem in Glen Canyon NRA.
- 28% of visitor groups neither agreed nor disagreed with this statement.

See Appendix 1 for more details.

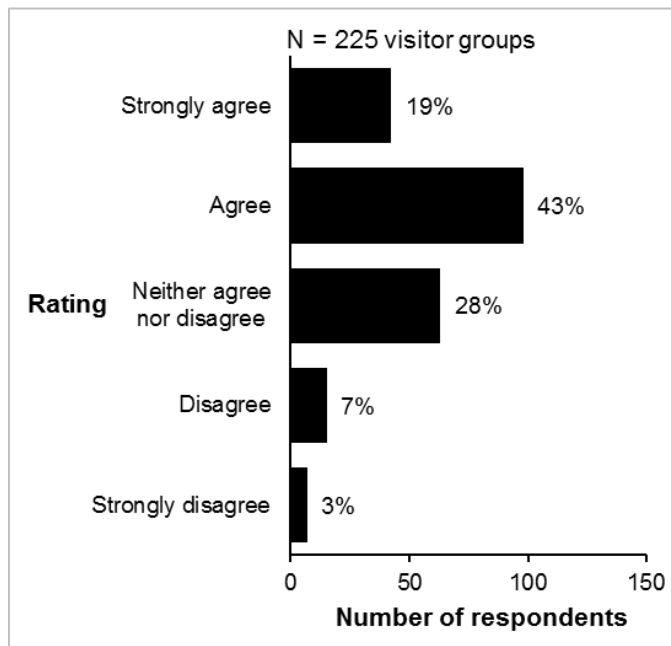


Figure 88. Extent of agreement/disagreement with statement on vandalism and crime in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Accessibility

Question 22

To what extent do you agree or disagree with each of the following statements?

Glen Canyon NRA is not accessible to persons with physical disabilities.

Results (Figure 89)

- 42% of visitor groups neither agreed nor disagreed that Glen Canyon NRA is not accessible to persons with physical disabilities.
- 32% of visitor groups disagreed with this statement.

See Appendix 1 for more details.

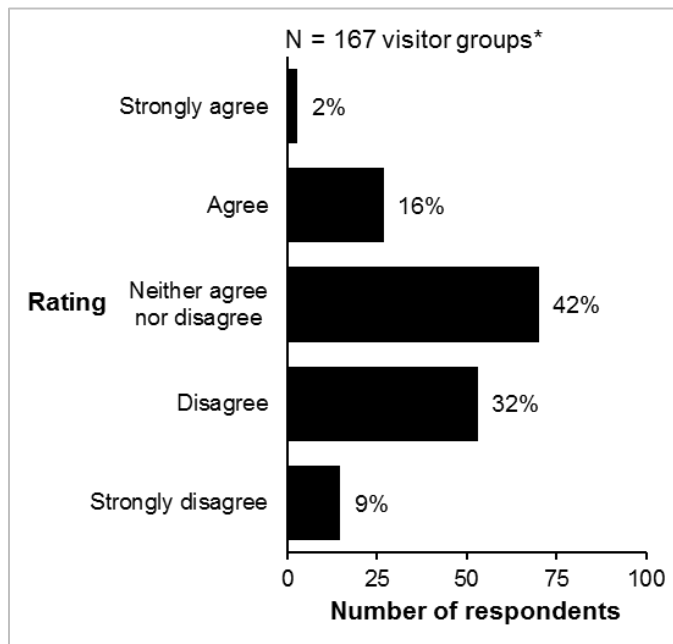


Figure 89. Extent of agreement/disagreement with statement on accessibility of Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Condition of historical and cultural features

Question 22

To what extent do you agree or disagree with each of the following statements?

Historical and cultural features in Glen Canyon NRA are well maintained/preserved.

Results (Figure 90)

- 64% of visitor groups agreed that historical and cultural features in Glen Canyon NRA are well maintained/preserved.
- 18% of visitor groups neither agreed nor disagreed with this statement.

See Appendix 1 for more details.

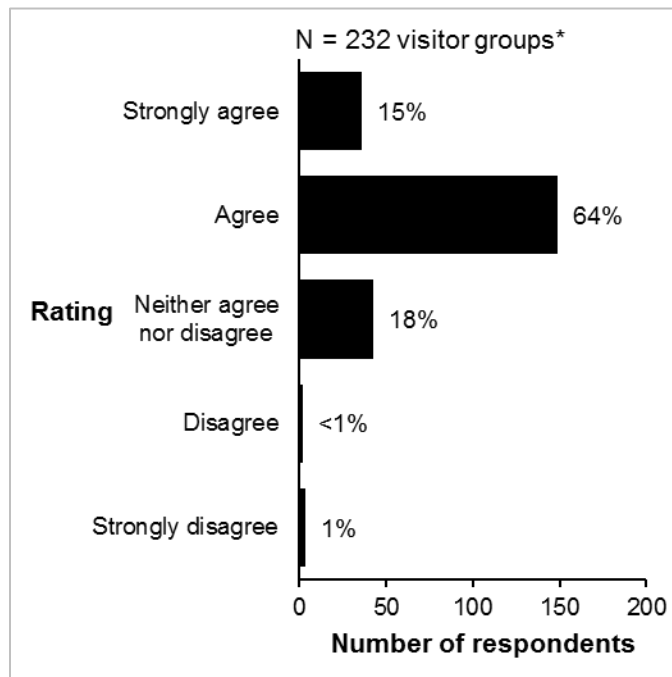


Figure 90. Extent of agreement/disagreement with statement on condition of historical and cultural features in Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Development of adjacent areas

Question 22

To what extent do you agree or disagree with each of the following statements?

Development of adjacent areas detracts from visitors' experiences at Glen Canyon NRA.

Results (Figure 91)

- 42% of visitor groups disagreed that development of adjacent areas detracts from visitors' experiences at Glen Canyon NRA.
- 32% of visitor groups neither agreed nor disagreed with this statement.

See Appendix 1 for more details.

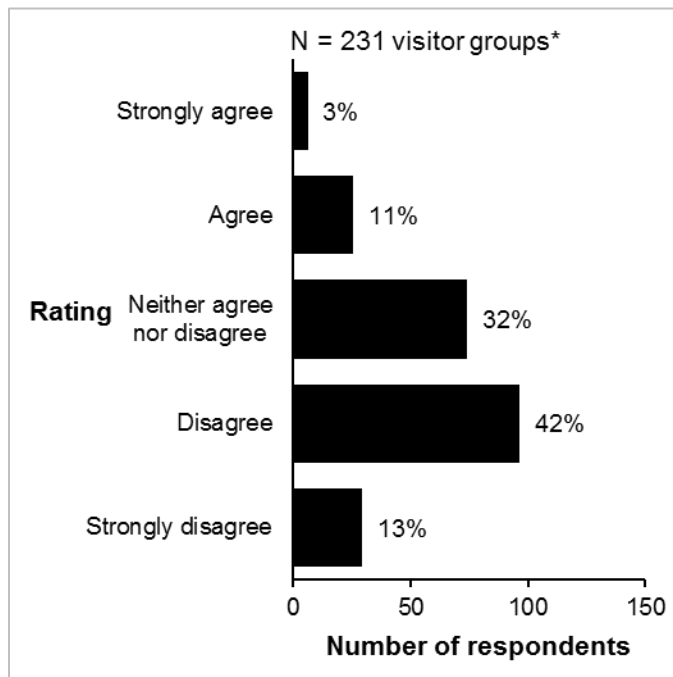


Figure 91. Extent of agreement/disagreement with statement on development of adjacent areas near Glen Canyon NRA.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Quality of facilities, services, and recreational opportunities

Question 23

How would you rate the quality of the facilities, services, and recreational opportunities in Glen Canyon NRA?

Rating choices:

- 1 = Very good
- 2 = Good
- 3 = Average
- 4 = Poor
- 5 = Very poor

Results (Figure 92)

- Figure 92 shows the combined proportions of “very good” and “good” ratings for facilities, services, and recreational opportunities.
- The facilities, services, and recreational opportunities that received the highest combined proportions of “very good” and “good” ratings were:
 - 95% Outdoor recreation
 - 94% Visitor center
 - 89% Exhibits (indoor and outdoor)
- The facilities, services, and recreational opportunities that received the lowest combined proportions of “very good” and “good” ratings were:
 - 70% Value for entrance fee paid
 - 69% Campgrounds and/or picnic areas
 - 61% Commercial services in the park
- Figure 93 through Figure 104 show ratings for each facility, program, or recreational opportunity.

See Appendix 1 for more details.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

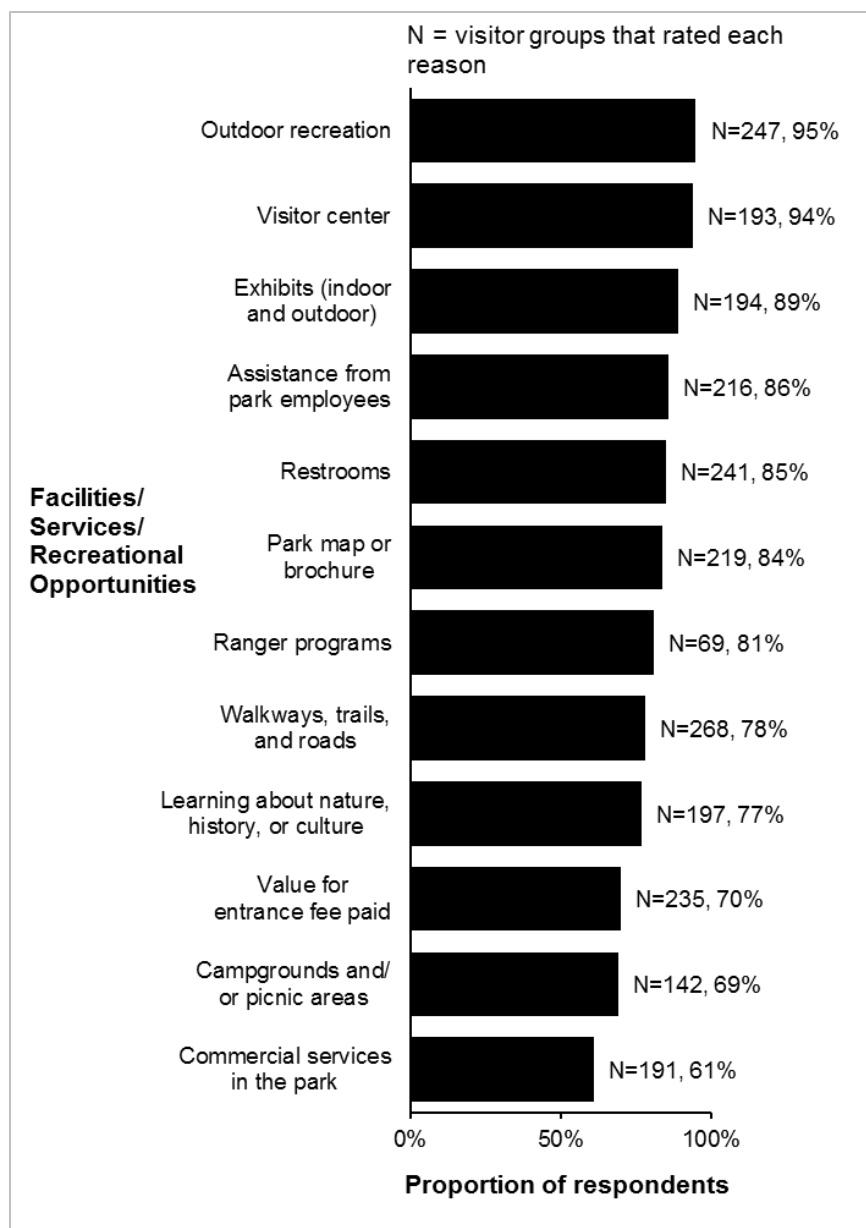


Figure 92. Quality of facilities, services, and recreational opportunities.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

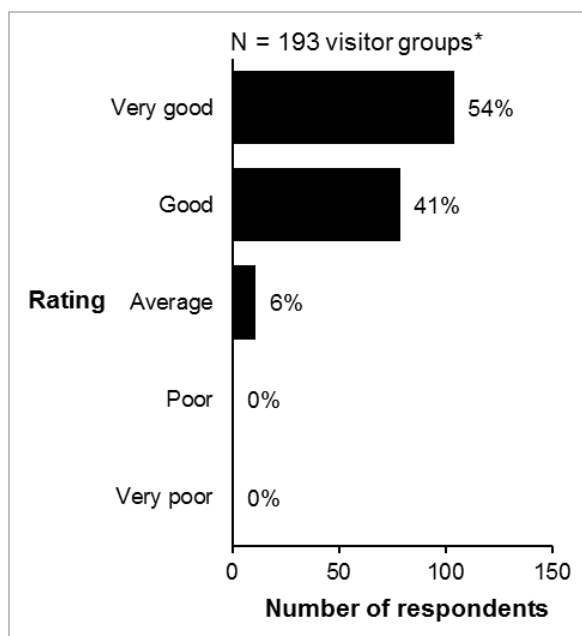


Figure 93. Quality of visitor center.

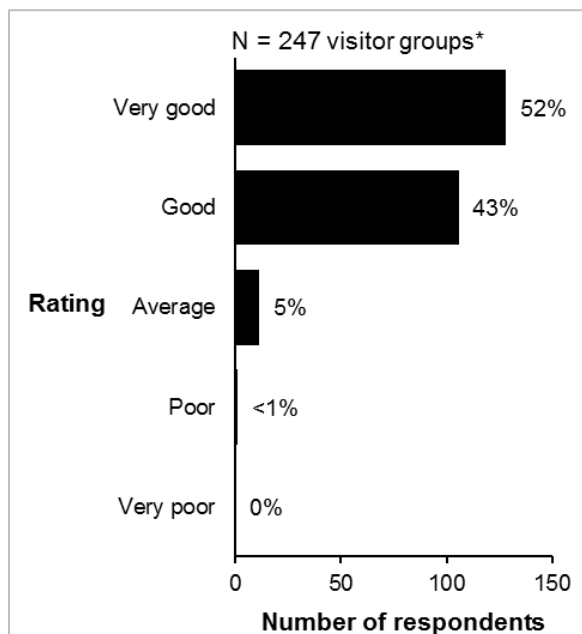


Figure 94. Quality of outdoor recreation (sightseeing, camping, bicycling, boating, hiking, etc.).

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

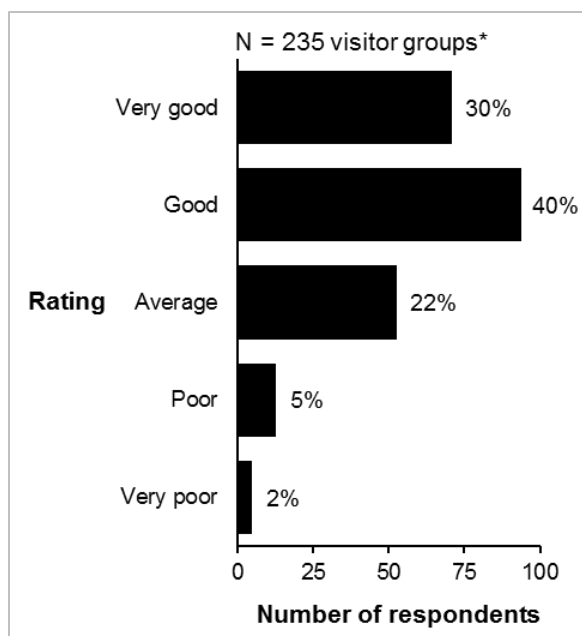


Figure 95. Quality of value for entrance fee paid.

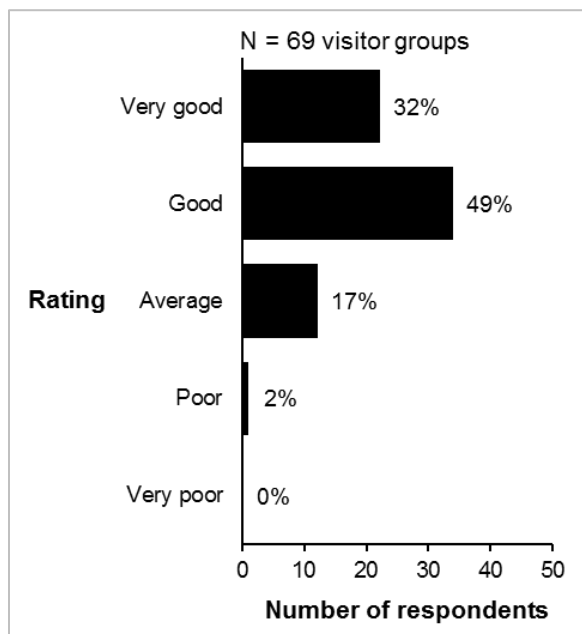


Figure 96. Quality of ranger programs.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

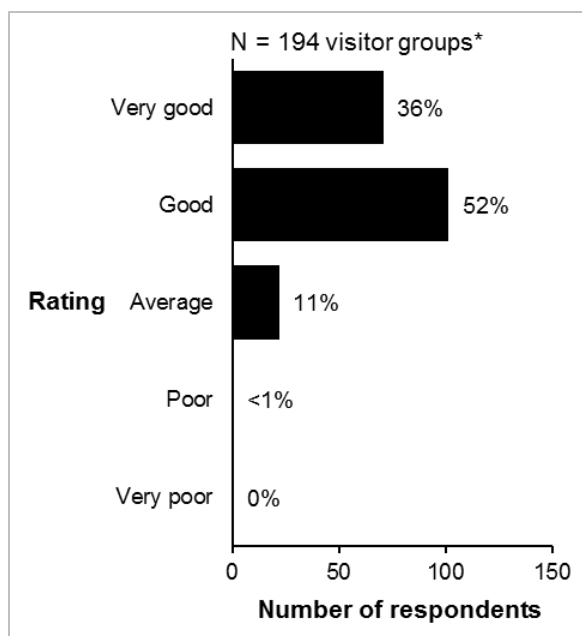


Figure 97. Quality of exhibits (indoor and outdoor).

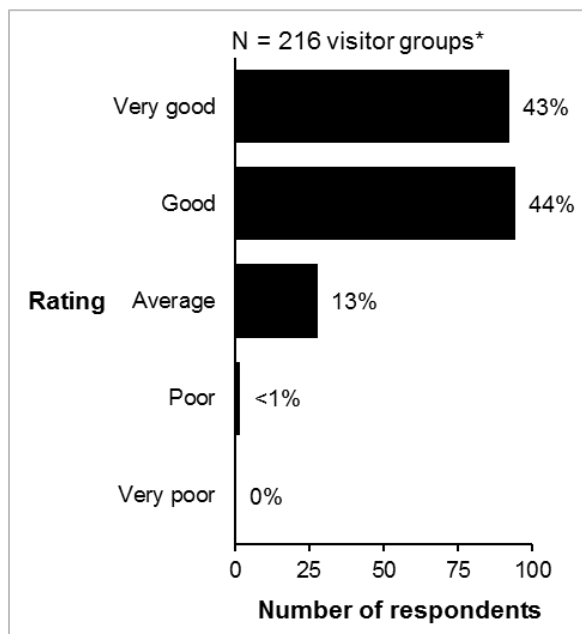


Figure 98. Quality of assistance from park employees.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

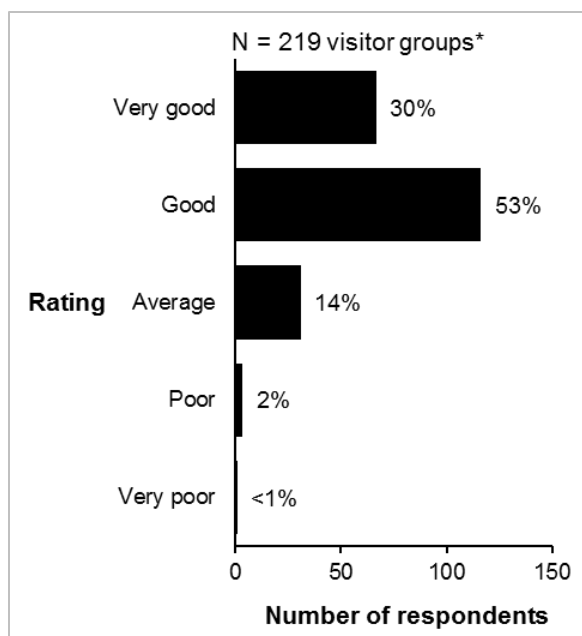


Figure 99. Quality of park map or brochure.

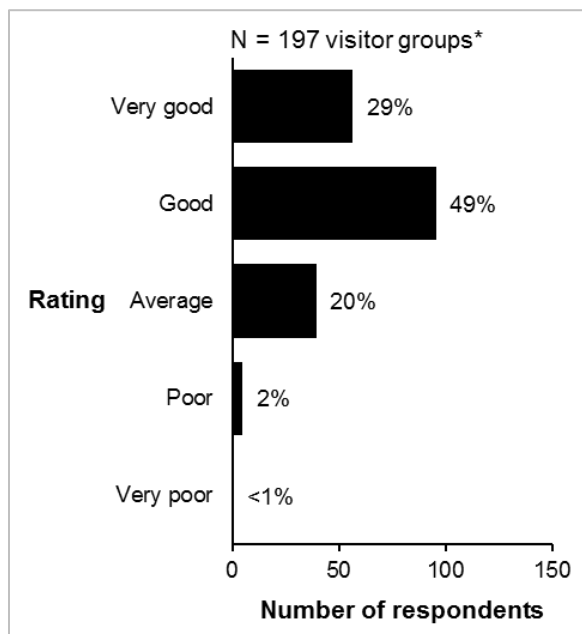


Figure 100. Quality learning about nature, history, or culture.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

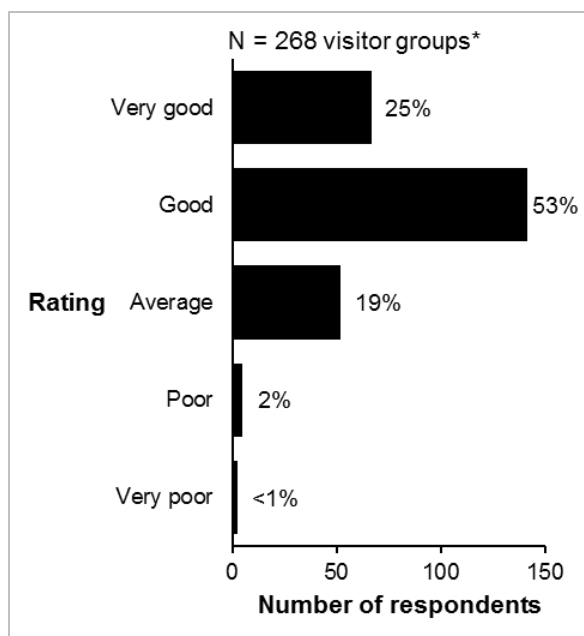


Figure 101. Quality of walkways, trails, and roads.

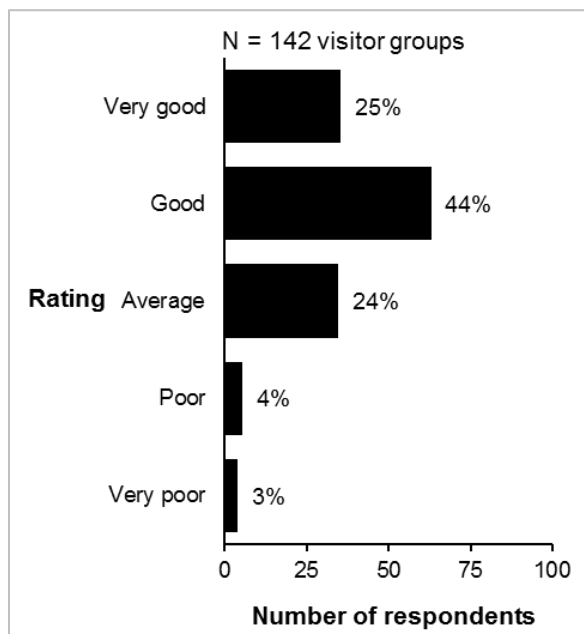


Figure 102. Quality of campgrounds and/or picnic areas.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

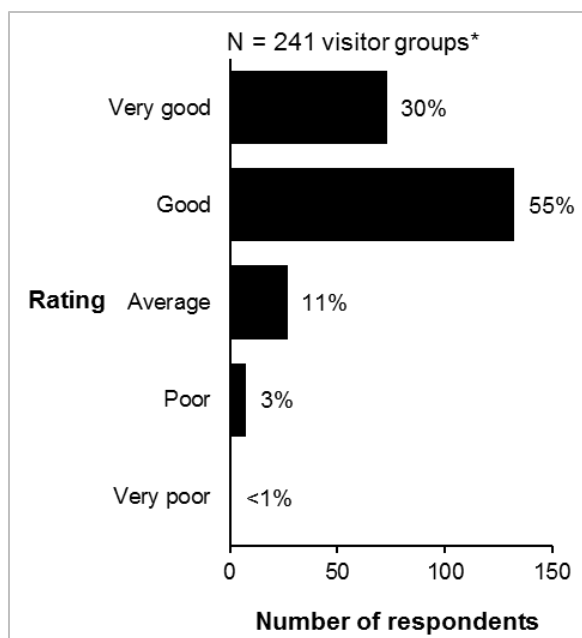


Figure 103. Quality of restrooms.

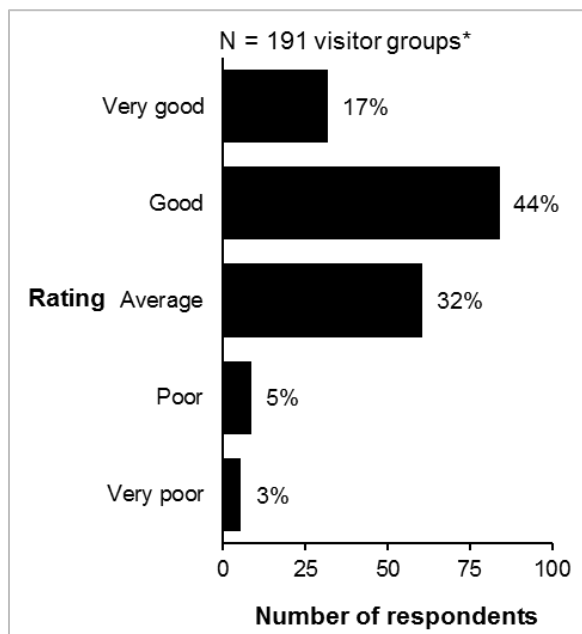


Figure 104. Quality of commercial services in the park.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Services used

Question 23

Please specify services used.

Results (Table 23)

- Table 23 shows the services used by visitor groups. The most frequently mentioned services were:
 - “Shops” (mentioned 19 times)
 - “Lodging” (mentioned 13 times)
 - “Food services” (mentioned 12 times)

Table 23. Services used. N = 93 comments. Some visitor groups may have made more than one comment.

Service	Frequency of times mentioned
Shops	19
Lodging	13
Food services	12
Tours	8
Marina	8
Restrooms	8
Park employees	7
Visitors center	5
Lake Powell	5
Informational materials	3
Other services	8

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Overall quality of facilities, services, and recreational opportunities

Question 24

Overall, how would you rate the quality of facilities, services, and recreational opportunities in Glen Canyon NRA?

Results (Figure 105)

- 47% of visitor groups rated the quality of facilities, services, and recreational opportunities overall as “good.”
- 42% of visitor groups gave an overall rating of “very good.”

See Appendix 1 for more details.

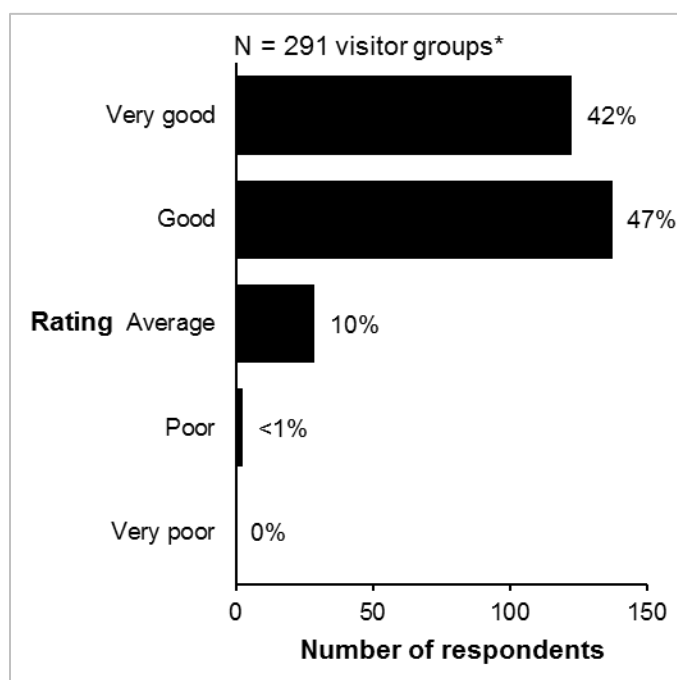


Figure 105. Overall rating of facilities, services, and recreational opportunities.

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Opinion of national significance of park

Question 25

This park was established because of its significance to the nation. In your opinion, what is the national significance of this park?

Results (Table 24)

- Table 24 shows what visitor groups believed the national significance of Glen Canyon NRA to be. The items most frequently mentioned were:
 - “Water resource” (mentioned 46 times)
 - “Natural beauty” (mentioned 39 times)
 - “Recreation” (mentioned 30 times)
 - “Landscape and natural features” (mentioned 30 times)

Table 24. Opinions of national significance of park. N = 306 comments. Some visitor groups may have made more than one comment.

Significance	Frequency of times mentioned
Water resource	46
Natural beauty	39
Recreation	30
Landscape and natural features	30
Preservation	28
Energy production	21
Experience nature	13
History	13
Glen Canyon Dam	10
National Treasure	9
Education	9
Don't know	8
Unique	8
Time with family	6
Native Americans	5
Impact of altering nature	4

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Table 24 (continued). Opinions of national significance of park. N = 306 comments. Some visitor groups may have made more than one comment.

Significance	Frequency of times mentioned
Public accessibility	4
Geology	2
Other significance	21

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Visitor Comments

Additional comments

Question 41

Is there anything else you would like to tell us about Glen Canyon NRA's facilities, services, or recreational opportunities?

Results (Table 25)

- Table 25 shows additional comments from visitor groups. Most of the comments were positive:
 - “Enjoyed visit” (mentioned 12 times)
 - “Love Glen Canyon NRA” (mentioned 12 times)
 - “Thank you” (mentioned 10 times)
- The most frequently mentioned negative comments were:
 - “Improve policies and management” (mentioned 16 times)
 - “Improve infrastructure and amenities” (mentioned 12 times)
 - “Displeased with Aramark” (mentioned 4 times)
 - “Overpriced” (mentioned 4 times)

Table 25. Additional comments about facilities, services, or recreational opportunities. N = 145 comments. Some visitor groups may have made more than one comment.

Category	Comment	Frequency of times mentioned
Personnel	Friendly and helpful staff	12
Policies and management	Improve policies and management	16
	Displeased with Aramark	4
	Overpriced	4
	Keep GCNRA undeveloped	3
Interpretive and information services	Improve signage	3
	Enjoyed educational aspects	2
	Improve tours	1
Facilities and maintenance	Improve infrastructure and amenities	12
	Would like more shade	4
	Appreciate upgrades	3

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

Table 25 (continued). Additional comments about facilities, services, or recreational opportunities. N = 145 comments. Some visitor groups may have made more than one comment.

Category	Comment	Frequency of times mentioned
Facilities and maintenance (continued)	Well maintained	3
General comments	Enjoyed visit	12
	Love GCNRA	12
	Thank you	10
	Survey comment	9
	Repeat visitor	7
	Love the National Parks	5
	Great natural features	4
	Keep up the good work	3
	Want to return	3
	Other comments	13

*total percentages do not equal 100 due to rounding

**total percentages do not equal 100 because visitors could select more than 1 answer

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Appendix 1. Descriptive Statistics

Table 26 shows the mean, median, and standard deviation for those variables for which measures of central tendency can be computed.

Table 26. Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q01	Number of adults in group	296	3.30	2	3.69
Q01	Number of children in group	119	3.27	2	3.31
Q01	Group size	296	4.54	2	5.34
Q03	Number of people per vehicle	185	3.65	2	4.51
Q04	Number of hours traveled to get from home to park	263	26.94	8	136.46
Q04	Number of miles traveled to get from home to park	240	1414.73	500	2424.24
Q06	Number of days entering/reentering the park	275	2.11	1	2.89
Q07	Number of hours in the park	139	4.43	4	3.36
Q07	Number of days in the park	146	4.36	3	4.47
Q10	Importance to visit at NPS site	282	3.14 ³	3	1.41
Q10	Importance to spend time with friends/family	284	1.83	1	1.28
Q10	Importance to view wildlife or natural scenery	288	1.86	2	0.98

³ Responses for Question 10 were on a scale from 1 = Extremely Important to 5 = Not at all Important.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q10	Importance to get physical exercise	283	3.11	3	1.14
Q10	Importance to relax	287	2.21	2	1.05
Q10	Importance to learn more about American history and culture	286	3.27	3	1.29
Q10	Importance to learn more about nature	286	3.05	3	1.22
Q10	Importance to attend a special event	265	4.60	5	0.98
Q10	Importance to hear the sounds of nature/quiet	284	2.95	3	1.32
Q10	Importance to experience solitude	283	3.31	3	1.34
Q10	Importance to be outdoors	284	1.97	2	0.94
Q10	Importance to view dark night sky/stars	286	3.19	3	1.44
Q10	Importance to experience wilderness	282	2.74	3	1.29
Q10	Importance to explore/seek adventure	283	2.51	2	1.29
Q10	Importance of "other"	53	3.04	3	1.83

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ⁴	3	1.49
Q17	Importance of being able to use personal electronic devices to send/receive text message	278	3.25	3	1.46
Q17	Importance of being able to use personal electronic devices to search the internet	274	3.57	4	1.44
Q17	Importance of being able to use personal electronic devices to share pics/videos/audio via social media	272	3.70	4	1.40
Q17	Importance of being able to use personal electronic devices to download an NPS podcast	261	4.69	5	0.76
Q17	Importance of being able to use personal electronic devices to "other"	63	4.32	5	1.37

⁴ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ⁵	3	1.49
Q17	Quality of being able to use personal electronic devices to make/receive cell phone call	218	2.76 ⁶	3	1.12
Q17	Quality of being able to use personal electronic devices to send/receive text message	210	2.85	3	1.16
Q17	Quality of being able to use personal electronic devices to search the internet	192	3.12	3	1.25
Q17	Quality of being able to use personal electronic devices to share pics/videos/audio via social media	181	3.10	3	1.33

⁵ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

⁶ Responses for Question 17 on Quality were on a scale from 1 = Very Good to 5 = No service at all.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ⁷	3	1.49
Q17	Quality of being able to use personal electronic devices to download an NPS podcast	94	3.49	3	1.19
Q17	Quality of being able to use personal electronic devices to "other"	30	3.49	4	1.11
Q22	Glen Canyon NRA is a safe place to visit	287	1.69	2	0.71
Q22	Glen Canyon NRA is too crowded	282	3.32	3	1.04
Q22	Natural resources in Glen Canyon NRA are in pristine condition	271	2.21	2	0.86
Q22	The entrance fee for Glen Canyon NRA is too high	242	3.32	3	1.11
Q22	Vandalism and crime are not a problem in Glen Canyon NRA	209	1.71	2	0.70

⁷ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ⁸	3	1.49
Q22	Glen Canyon NRA is not accessible to persons with physical disabilities	218	1.88	2	0.74
Q22	Historic and cultural features in Glen Canyon NRA are well maintained/preserved	75	1.95	2	0.76
Q22	Development of adjacent areas detracts from visitors' experiences at Glen Canyon NRA	227	2.01	2	0.94
Q23	Quality of visitor center	187	2.30	2	0.91
Q23	Quality of exhibits	193	1.94	2	0.80
Q23	Quality of restrooms	243	1.56	2	0.61
Q23	Quality of walkways, trails, and roads	290	1.70 ⁹	2	0.68

⁸ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

⁹ Responses for Question 22 were on a scale from 1 = Strongly agree to 5 = Strongly disagree.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ¹⁰	3	1.49
Q23	Quality of campgrounds and/or picnic areas	209	1.71	2	0.70
Q23	Quality of assistance from park employees	218	1.88	2	0.74
Q23	Quality of park map or brochure	75	1.95	2	0.76
Q23	Quality of ranger programs	227	2.01	2	0.94
Q23	Quality of value for entrance fee paid	187	2.30	2	0.91
Q23	Quality of commercial services in the park	193	1.94	2	0.80
Q23	Quality of learning about nature, history, or culture	243	1.56	2	0.61
Q23	Quality of outdoor recreation	290	1.70 ¹¹	2	0.68
Q24	Quality of the park overall	209	1.71	2	0.70

¹⁰ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

¹¹ Responses for Question 23 and 24 were on a scale from 1 = Very good to 5 = Very poor.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ¹²	3	1.49
Q27	Nights backcountry camping Glen Canyon NRA	6	2.42	2	1.09
Q27	Nights camping in Glen Canyon NRA	35	3.35	2	2.87
Q27	Nights camping outside Glen Canyon NRA	22	5.47	2.5	8.01
Q27	Nights on houseboat in Glen Canyon NRA	35	6.77	6	5.34
Q27	Nights lodging in Glen Canyon NRA	48	2.29	2	1.35
Q27	Nights lodging outside Glen Canyon NRA	104	3.30	2	3.28
Q27	Nights in other accommodations	10	4.98	3	6.42
Q27	Total nights in overnight accommodations	228	4.25	3	4.49
Q30	Total length of package tour	37	5.23	4	6.78
Q30	Total cost per person of package tour	34	885.05	350	1031.77

¹² Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ¹³	3	1.49
Q30	Total number of people on the package tour	36	4.16	3	6.43
Q31	Expenditures on park entrance fee	144	73.24	50	177.22
Q31	Expenditures on gas and oil	227	219.49	100	355.79
Q31	Expenditures on rental cars	57	503.01	300	592.25
Q31	Expenditures on taxis, shuttles, and public transportation	7	73.95	100	62.99
Q31	Expenditures on ferry fares	6	153.49	110	194.51
Q31	Expenditures on restaurants and bars	181	205.99	100	280.07
Q31	Expenditures on groceries and convenience foods	187	172.56	80	266.43
Q31	Expenditures on hotels, motels, resorts	121	549.85	400	550.11
Q31	Expenditures on specialty lodging	21	1240.27	1500	1057.10

¹³ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ¹⁴	3	1.49
Q31	Expenditures on camping fees	48	144.58	90	193.92
Q31	Expenditures on recreation and entertainment expenses	22	218.54	90	290.02
Q31	Expenditures on souvenirs, clothing, supplies, other retail	144	101.32	77	104.92
Q31	Expenditures on equipment rental	15	216.92	100	337.19
Q31	Expenditures on boat and houseboat rental	26	1895.80	762.5	3906.75
Q31	Expenditures on guides and tours	53	218.46	110	269.23
Q31	Expenditures on other	18	866.47	270	2044.52
Q31	Total expenditures in park and nearby area	253	1385.70	675	2050.29
Q32	Expenditures outside the area	123	1854.81	500	5437.47
Q33	Adults covered by expenses	267	3.21	2	3.65

¹⁴ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

Table 26 (continued). Mean/median/standard deviation of selected variables.

Question number	Description	N	Mean	Median	Standard deviation
Q17	Importance of being able to use personal electronic devices to make/receive cell phone call	281	3.17 ¹⁵	3	1.49
Q33	Children covered by expenses	106	3.21	2	3.40
Q33	Visitors covered by expenses	268	4.38	3	5.22
Q33	Visitors who split expenses	214	2.80	2	3.38
Q34	Current age: respondent	281	48.73	48	16.12
Q34	Glen Canyon NRA visits past 12 months: respondent	271	2.12	1	4.93
Q34	NPS site visits past 12 months: respondent	243	3.85	3	5.32
Q34	Current age: all group members	977	38.35	37	20.61
Q34	Glen Canyon NRA visits past 12 months: all group members	913	2.05	1	6.06
Q34	NPS site visits past 12 months: all group members	764	3.65	2	5.80

¹⁵ Responses for Question 17 on Importance were on a scale from 1 = Extremely Important to 5 = Not at all important.

Appendix 2. The Questionnaire



Social Science Program
National Park Service
U.S. Department of the Interior

Glen Canyon National Recreation Area

Visitor Study



2016

Paperwork Reduction and Privacy Act Statements: The Paperwork Reduction Act requires us to tell you why we are collecting this information, how we will use it, and whether or not you have to respond. This information will be used by the National Park Service as authorized by 16 USC 5931 §201. We will use this information to evaluate visitor services and facilities managed by the National Park Service. Your responses are voluntary and anonymous. Your name and address have been requested for follow-up purposes only. At the completion of this collection all names and personal information will be destroyed and in no way be connected with the results of this survey. A Federal agency may not conduct or sponsor and you are not required to respond to, a collection of information unless it displays a currently valid OMB Control Number.

Burden Estimate: We estimate that it will take an average of 20 minutes to complete this questionnaire. You may send comments concerning the burden estimates or any aspect of this information collection to the Social Science Program Chief, National Park Service, 1201 Oakridge Drive, Fort Collins, CO, 80525-5596; nps_nrss_social_science@nps.gov (email).



United States Department of the Interior

NATIONAL PARK SERVICE
1849 C Street, N.W.
Washington, DC 20240



Summer, 2016

Dear National Park Visitor:

Thank you for participating in this study. Our goal is to learn about the expectations, opinions, and interests of visitors to the National Park System. This information will assist us in our efforts to better manage this park and to serve you.

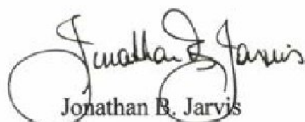
This questionnaire is only being given to a select number of visitors, so your participation is very important. It should take about 20 minutes to complete after your visit.

When your visit is over, the adult in your group who will have the next birthday should complete this questionnaire. Seal it in the postage-paid envelope provided and drop it in any U.S. Postal Service mailbox.

If you have any questions, please contact the Social Science Program Chief, National Park Service, 1201 Oakridge Drive, Fort Collins, CO, 80525-5596; nps_nrss_social_science@nps.gov (email).

We appreciate your help.

Sincerely,


Jonathan B. Jarvis
Director

RETURN PROCEDURE

At the end of your visit:

1. Please have the adult in your group (at least 18 years old) who has the next birthday complete this questionnaire. That will help give us a statistically reliable sample.
2. For questions that use circles (O), please mark your answer by filling in the circle with *black or blue ink*. Please do not use pencil.

Like this:  Not like this:    

3. Seal it in the postage-paid envelope provided.
4. Drop it in a U.S. Postal Service mailbox.

DIRECTIONS

Please have the adult in your group (at least 18 years old) having the next birthday complete this questionnaire.

In this questionnaire, your **personal group** is defined as you and anyone with whom you visited Glen Canyon National Recreation Area on this trip, such as a spouse, family, friends, etc. This does not include the larger group that you might have traveled with, such as a school, church, scout, or tour group.

A **visit** is defined as the day in which you were contacted to complete this questionnaire. A **trip** is defined as the total extent of time away from your personal residence that could include multiple visits to Glen Canyon National Recreation Area.

A. Trip Description

1. Including yourself, how many people were in your personal group during your visit to Glen Canyon National Recreation Area (GCNRA) on the day you were contacted for this survey?

_____ Number of adults (18 years or older)

_____ Number of children (under 18 years)
2. What type of group were you with, during your visit to GCNRA on the day you were contacted for this survey? Please mark (●) **one**.
 - ☐ Alone
 - ☐ Friends
 - ☐ Family
 - ☐ Family and friends
 - ☐ Other (Please specify) _____

3. Please indicate all of the forms of transportation you personally used to travel from your home to GCNRA, on this trip. Please mark (●) **all that apply**.
- ☐ Car, truck, or SUV (Number of people in vehicle, including you) _____
 - ☐ Recreational vehicle or motorhome
 - ☐ Airplane
 - ☐ Tour bus or tour van
 - ☐ City bus or subway
 - ☐ Train or long-distance passenger bus
 - ☐ Water-based transportation (Please mark (●) **all that apply**.)
 - ☐ Cruise ship
 - ☐ Ferry
 - ☐ Tour boat
 - ☐ Other water-based mode (Please specify) _____
 - ☐ Bicycle
 - ☐ Walk/hike
 - ☐ Other (Please specify) _____
4. Approximately how many hours and miles from home did you travel one way to get to GCNRA on this trip?
- _____ Number of hours
- AND**
- _____ Number of miles
5. On this trip to GCNRA, which one of the following entrance fees applied to you personally? Please mark (●) **one**.
- ☐ Did not pay a fee or use a pass to enter the park
 - ☐ 7-day entrance pass
 - ☐ Annual Pass for GCNRA
 - ☐ America the Beautiful – National Parks and Federal Recreational Lands
 - ☐ Senior Pass, Access Pass, or Military Pass
 - ☐ Fee included in tour package
 - ☐ Don't know/Not sure
 - ☐ Other (Please specify) _____

6. On how many days during this trip did you enter or re-enter GCNRA? If you were on a day trip or if you camped or lodged inside the park and did not leave the park boundaries for the entire length of your stay, then answer 1 day.

_____ Number of days entering or re-entering GCNRA

OR

☐ Don't Know/Not sure

7. On this trip, how much total time did you spend within GCNRA?

_____ Number of hours, if a day trip

_____ Number of days, if greater than 1 day

B. Trip Planning and Motivations

8. Prior to this trip, how did you obtain information about GCNRA? Please mark (●) all that apply.

- ☐ Did not obtain information prior to this visit
- ☐ Previous visits
- ☐ Friends/relatives/word of mouth
- ☐ Inquiry to park via phone, mail, or email
- ☐ GCNRA website (nps.gov/glca)
- ☐ Other website (Please specify) _____
- ☐ Local businesses (hotels, motels, restaurants, etc.)
- ☐ Maps/brochures
- ☐ Newspaper/magazine articles
- ☐ Other units of the National Park System (NPS)
- ☐ School class/program
- ☐ Social media (such as Facebook, Twitter, etc.)
- ☐ State welcome center/visitors bureau/chamber of commerce
- ☐ Television/radio programs/DVDs
- ☐ Travel guides/tour books (such as AAA, etc.)
- ☐ Other (Please specify) _____

9. Did you have the information about GCNRA you needed on this trip? Please mark (●) **one**.
- ☐ Yes
- ☐ No (Please specify information you needed but didn't have on this trip.)

10. How important to you was each of the following reasons for visiting GCNRA on this trip? Please mark (●) **one for each row**.

	Extremely Important	Very Important	Moderately Important	Slightly Important	Not at All Important
To visit a National Park Service site	☐	☐	☐	☐	☐
To spend time with friends/family	☐	☐	☐	☐	☐
To view wildlife or natural scenery	☐	☐	☐	☐	☐
To get physical exercise	☐	☐	☐	☐	☐
To relax	☐	☐	☐	☐	☐
To learn more about American history and culture	☐	☐	☐	☐	☐
To learn more about nature	☐	☐	☐	☐	☐
To attend a special event (Please specify)	☐	☐	☐	☐	☐
To hear the sounds of nature/quiet	☐	☐	☐	☐	☐
To experience solitude	☐	☐	☐	☐	☐
To be outdoors	☐	☐	☐	☐	☐
To view dark night sky/stars	☐	☐	☐	☐	☐
To experience Wilderness	☐	☐	☐	☐	☐
To explore/seek adventure	☐	☐	☐	☐	☐
Other (Please specify)	☐	☐	☐	☐	☐

11. Of the reasons listed in Question 10, which was the most important reason for you to visit GCNRA on this trip?

C. Park Activities, Programs, and Services

12. On this trip, in which of the following activities did you personally participate within GCNRA? Please mark (●) **all that apply**.

- ☐ Viewing wildlife, natural features, scenery, wildflowers, etc.
- ☐ Creative arts (photography/drawing/painting/writing)
- ☐ Visiting a cultural or historic site
- ☐ Nature study
- ☐ Driving for pleasure
- ☐ Walking/short hike (less than 1 hour)
- ☐ Day hiking (1 hour or more)
- ☐ Bicycling
- ☐ Running/jogging
- ☐ Fishing
- ☐ Non-motorized water travel (rafting, kayaking, canoeing, tubing, etc.)
Please specify: _____
- ☐ Motorized water travel (boating, jet skiing, etc.)
Please specify: _____
- ☐ Camping in developed sites
- ☐ Camping via boat (houseboat, fishing boat, kayak)
- ☐ Overnight backpacking
- ☐ Overnighting in resort, cabin, or other accommodations in GCNRA
- ☐ Family gathering/reunion
- ☐ Picnicking
- ☐ Water play (swimming, snorkeling, scuba diving, etc.)
Please specify: _____
- ☐ Hunting/trapping
- ☐ Rock climbing/bouldering
- ☐ Canyoneering
- ☐ Other (Please specify) _____

13. Of the activities listed in Question 12, which was your primary activity during your visit to GCNRA on the day you were contacted for this survey?

OR

- ☐ I did not have a primary activity on this trip to GCNRA.

14. On this trip, in which of the following programs and services did you personally participate within GCNRA? Please mark (●) **all that apply**.
- ☐ Attending a ranger-led activity, such as a tour or talk
 - ☐ Talking informally with a ranger
 - ☐ Viewing outdoor exhibits
 - ☐ Viewing indoor exhibits
 - ☐ Attending a cultural demonstration or performance
 - ☐ Reading the park brochure or newspaper
 - ☐ Going to the Visitor Center
 - ☐ Watching movies or videos about the park
 - ☐ Participating with a child in your group in the Junior Ranger program
 - ☐ Obtaining National Park passport stamp
 - ☐ Listening to an audio tour or podcast
 - ☐ Using a smart phone app specific to GCNRA
 - ☐ Boat tour
 - ☐ Other (Please specify) _____
15. On this visit to GCNRA, did you learn anything from park staff, programs, and/or exhibits about American history, nature, and/or culture? Please mark (●) **one**.
- ☐ Yes (Please specify subjects you learned about.)

 - ☐ No
16. If you were to visit GCNRA in the future, are there specific subjects you would like to learn about? Please mark (●) **one**.
- ☐ Yes (Please specify subjects you would like to learn about.)

 - ☐ No

17. How important to you was it during your visit to GCNRA to use personal electronic devices to do each of the following, and how would you rate the quality of the service in GCNRA required to do each? For each item, please mark (●) **one for importance and one for quality of service needed.**

	IMPORTANCE					QUALITY OF SERVICE REQUIRED					
	Extremely Important	Very Important	Moderately Important	Slightly Important	Not at all Important	Very Good	Good	Average	Poor	No Service At All	
Make/receive cell phone call	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Send/receive text message	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Search the Internet	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Share pics/videos/audio via social media (Facebook, Twitter, etc.)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Download an NPS podcast	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Other (Please specify) _____	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

18. a) Did anyone in your personal group have a physical condition that made it difficult to access or participate in park activities or services, during your visit to GCNRA? Please mark (●) **one**.

☐ Yes

☐ No → **Go to Question 19**

- b) If YES, what activities, services, or facilities did the person(s) have difficulty participating in or accessing? Please be specific.

- c) Because of the physical condition, which specified difficulties did the person(s) have? Please mark (●) **all that apply**.

☐ Hearing (difficulty hearing ranger programs, bus drivers, audio-visual exhibits or programs, or information desk staff even with hearing aid)

☐ Visual (difficulty in seeing exhibits, directional signs, visual aids that are part of programs even with prescribed glasses or due to blindness)

☐ Mobility (difficulty in accessing facilities, services, or programs even with walking aid and/or wheelchairs)

☐ Other (Please specify) _____

19. What did you like most about your visit to GCNRA?

20. What did you like least about your visit to GCNRA?

21. Did your visit to GCNRA, on this trip, meet your expectations? Please mark (●) one.

☐ Yes

☐ Not entirely (Please explain)

☐ Not at all (Please explain)

D. Park Management

22. To what extent do you agree or disagree with each of the following statements? Please mark (●) **one for each row**.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	Don't Know / Not Sure
GCNRA is a safe place to visit	☐	☐	☐	☐	☐	☐
GCNRA is too crowded	☐	☐	☐	☐	☐	☐
Natural resources in GCNRA are in pristine condition	☐	☐	☐	☐	☐	☐
The entrance fee for GCNRA is too high	☐	☐	☐	☐	☐	☐
Vandalism and crime are not a problem in GCNRA	☐	☐	☐	☐	☐	☐
GCNRA is not accessible to persons with physical disabilities	☐	☐	☐	☐	☐	☐
Historical and cultural features in GCNRA are well maintained/preserved	☐	☐	☐	☐	☐	☐
Development of adjacent areas detracts from visitors' experiences at GCNRA	☐	☐	☐	☐	☐	☐

23. How would you rate the quality of the facilities, services, and recreational opportunities in GCNRA? Please mark (●) **one for each row.**

	Very Good	Good	Average	Poor	Very Poor	Not Used or Not Available
Park Facilities						
Visitor center	☐	☐	☐	☐	☐	☐
Exhibits (indoor and outdoor)	☐	☐	☐	☐	☐	☐
Restrooms	☐	☐	☐	☐	☐	☐
Walkways, trails, and roads	☐	☐	☐	☐	☐	☐
Campgrounds and/or picnic areas	☐	☐	☐	☐	☐	☐
Visitor Services						
Assistance from park employees	☐	☐	☐	☐	☐	☐
Park map or brochure	☐	☐	☐	☐	☐	☐
Ranger programs	☐	☐	☐	☐	☐	☐
Value for entrance fee paid	☐	☐	☐	☐	☐	☐
Commercial services in the park (food, lodging, gifts, rental, etc.)	☐	☐	☐	☐	☐	☐
Please specify services used: _____						
Recreational Opportunities						
Learning about nature, history, or culture	☐	☐	☐	☐	☐	☐
Outdoor recreation (sightseeing, camping, bicycling, boating, hiking, etc.)	☐	☐	☐	☐	☐	☐

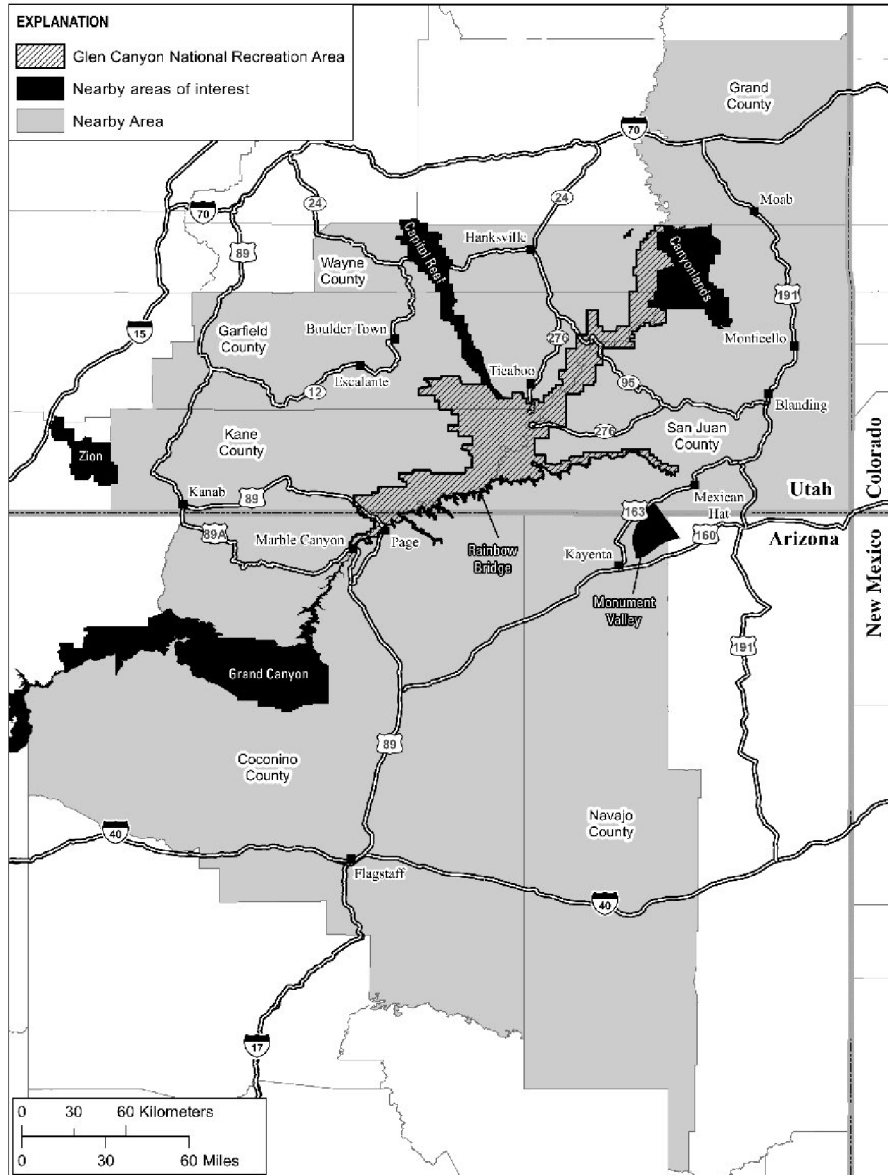
24. Overall, how would you rate the quality of the facilities, services, and recreational opportunities in GCNRA? Please mark (●) **one.**

- ☐ Very good
☐ Good
☐ Average
☐ Poor
☐ Very poor

25. This park was established because of its significance to the nation. In your opinion, what is the national significance of this park?

E. Expenditures

Please refer to the map when answering the questions in this section.



26. Do you live within the nearby area (within the shaded area shown on the map)? Please mark (●) **one**.
- ☐ Yes
- ☐ No

27. a) On this trip to GCNRA and the nearby area, did you stay overnight away from your permanent residence either inside GCNRA or within the nearby area (within the shaded area of the map on p.13)? Please mark (●) **one**.

☐ Yes

☐ No → **Go to Question 28**

- b) If **YES**, please list the number of nights you stayed in GCNRA and/or in the nearby area (within the shaded area of the map on p.13) on this trip.

Accommodation	Number of Nights
Backcountry camping in GCNRA	_____
Camping in GCNRA	_____
Houseboat in GCNRA	_____
Camping outside GCNRA	_____
Lodging in GCNRA	_____
Lodging outside GCNRA	_____
Other accommodations (e.g., friends/relatives)	_____

28. Was this trip to GCNRA? Please mark (●) **one**.

☐ Your primary or sole purpose of your trip away from home?

☐ One of several equally important destinations on your trip away from home?

→ Was one or more of the other equally important destinations located within the nearby area (within the shaded area of the map on p.13)? Please mark (●) **one**.

☐ Yes

☐ No

☐ Just an incidental or spur of the moment stop on your trip away from home?

→ Was your primary destination located within the nearby area (within the shaded area of the map on p.13)? Please mark (●) **one**.

☐ Yes

☐ No

29. Did you visit any other National Park Service sites on your trip away from home? Please mark (●) **one**.
- ☐ Yes (Please specify)
- _____
- _____
- _____
- ☐ No
30. a) Did you or anyone in your personal group purchase any package tours that included at least some meals, some lodging, and/or some transportation while on this trip?
- ☐ Yes
- ☐ No → **Go to Question 31**
- b) What was the total length of your package tour(s)? #_____days
- c) What was the total cost per person for the package tour(s)?
- \$_____per person
- d) How many people in your personal group were on the package tour(s)?
- #_____people

- e) Which of the following were included in the package tour(s) as part of your visit to GCNRA and the nearby area (within the shaded area of the map on p.13)? Please mark (●) **all** that apply.

	Items included in your package tour(s) as part of your visit to GCNRA and nearby area
Local air transportation	☐
Local ground transportation	☐
Local water transportation	☐
Local lodging	☐
Meals	☐
Guide services	☐
Fees (e.g., fishing licenses)	☐
Gear (e.g., camping equipment, bikes, kayaks)	☐
Admission to events or attractions	☐
Other (Please specify)	☐

31. Please estimate how much you and your personal group with whom you shared expenses (e.g., other family members, traveling companions) spent both inside GCNRA and within the nearby area (within the shaded area of the map on p.13) during your time in the nearby area. If you reported expenditures for package tours, please only include individual expenses that were NOT part of your package tour(s).

If you no longer have your receipts, estimate as closely as you can how much you and your group spent. Please enter 0 (zero) if you did not spend any money in a particular category.

Note: Residents living within the highlighted area of the map should only include expenditures that were directly related to this trip to GCNRA.

Expenses	Amount spent in GCNRA and nearby area
Park entrance fee	\$ _____
Gas and oil (e.g., auto, RV, boat, etc.)	\$ _____
Rental cars	\$ _____
Taxis, shuttles, and public transportation	\$ _____
Ferry fares	\$ _____
Restaurants and bars	\$ _____
Groceries and convenience foods	\$ _____
Hotels, motels, resorts	\$ _____
Specialty lodging (e.g., B&Bs, hostels, cabins, vacation rentals)	\$ _____
Camping fees (tent, RV)	\$ _____
Recreation and entertainment expenses (e.g., movies, bowling, miniature golf, etc.)	\$ _____
Souvenirs, clothing, supplies, other retail	\$ _____
Equipment rental	\$ _____
Boat and houseboat rental	\$ _____
Guide, tour, and marina fees	\$ _____
Other (Please list) _____	\$ _____

OR

☐ Don't know/Not sure

32. For you and any members of your personal group with whom you shared expenses, please record any additional money spent outside of the map area during your trip away from home (for example, travel or food expenditures).

\$ _____

OR

☐ Don't know/Not sure

33. a) Including yourself, how many people in your personal group were covered by the expenses for this trip away from home?

_____ Number of adults (18 years or over)

_____ Number of children (under 18 years)

- b) Including yourself, how many people in your group split these trip expenses?

_____ Number of people

F. Background

34. For your personal group during your visit to GCNRA on the day you were contacted for this survey, please provide the following information. (If you don't know the answer, enter "DK.")

	Current Age	U.S. ZIP code or name of country other than U.S.	Number of visits to GCNRA in last 12 months, including this trip	Number of visits to other NPS sites in the last 12 months
Yourself				
Member #2				
Member #3				
Member #4				
Member #5				
Member #6				
Member #7				

35. For your personal group during your visit to GCNRA on the day you were contacted for this survey, please provide the following information. Please mark (●) one for each group member, including yourself, for gender and Hispanic or Latino. (If you don't know the answer, mark (●) "Don't know.")

Additional members of your personal group

	Yourself	#2	#3	#4	#5	#6	#7
Male	☐	☐	☐	☐	☐	☐	☐
Female	☐	☐	☐	☐	☐	☐	☐
Hispanic or Latino	☐	☐	☐	☐	☐	☐	☐
Not Hispanic or Latino	☐	☐	☐	☐	☐	☐	☐
Don't know	☐	☐	☐	☐	☐	☐	☐

36. For your personal group during your visit to GCNRA on the day you were contacted for this survey, please provide the following information. Please mark (●) **one or more for each group member, including yourself.** (If you don't know the answer, mark (●) "Don't know.")

	Yourself	#2	#3	#4	#5	#6	#7
American Indian or Alaska Native	☐	☐	☐	☐	☐	☐	☐
Asian	☐	☐	☐	☐	☐	☐	☐
Black or African American	☐	☐	☐	☐	☐	☐	☐
Native Hawaiian or other Pacific Islander	☐	☐	☐	☐	☐	☐	☐
White	☐	☐	☐	☐	☐	☐	☐
Don't know	—	☐	☐	☐	☐	☐	☐

37. For your personal group during your visit to GCNRA on the day you were contacted for this survey, what is the highest level of formal education completed by each member of your group? Please mark (●) **one for each group member, including yourself.** (If you don't know the answer, mark (●) "Don't know.")

	Yourself	#2	#3	#4	#5	#6	#7
Less than high school	☐	☐	☐	☐	☐	☐	☐
Some high school	☐	☐	☐	☐	☐	☐	☐
High school graduate or GED	☐	☐	☐	☐	☐	☐	☐
Some college, business, or trade school	☐	☐	☐	☐	☐	☐	☐
College, business, or trade school graduate	☐	☐	☐	☐	☐	☐	☐
Some graduate school	☐	☐	☐	☐	☐	☐	☐
Master's, doctoral, or professional degree	☐	☐	☐	☐	☐	☐	☐
Don't know	—	☐	☐	☐	☐	☐	☐

38. Which category best represents your annual household income? Please mark (●) **one**.

- ☐ Less than \$24,999
☐ \$25,000-\$34,999
☐ \$35,000-\$49,999
☐ \$50,000-\$74,999
☐ \$75,000-\$99,999
☐ \$100,000-\$149,999
☐ \$150,000-\$199,999
☐ \$200,000 or more
☐ Do not wish to answer

39. Including yourself, how many people are in your household?

_____ Number of people

40. When visiting an area such as GCNRA, what language do you personally prefer to use? Please mark (●) **one for speaking and one for reading**.

	Speaking	Reading
English	☐	☐
Spanish	☐	☐
Other (Please specify) _____	☐	☐

41. Is there anything else you would like to tell us about GCNRA's facilities, services, or recreational opportunities?

Thank you for your help!

**Please place the questionnaire in the
envelope provided and drop it in any U.S.
Postal Service mailbox.**

SURVEY ID NUMBER:



Appendix 3. The Thank You/Reminder Postcard

Postcard mailed to respondents with United States addresses



Postcard mailed to respondents with international addresses



Dear National Park Visitor,

About two weeks ago we contacted you to participate in a visitor use survey for the National Park Service. On your recent trip to one of the many National Park Service units, you spoke with one of our survey administrators and received a questionnaire booklet and postage-paid envelope. If you have already sent in your completed survey, we **thank you!**

However, if you have not yet had the opportunity to complete the survey, please do so. A select number of people were contacted for this study, so your opinions are very important! Please complete and return the questionnaire booklet at your earliest convenience. If you have lost the questionnaire booklet or need additional postage to mail it to the US, another booklet will be mailed to you in approximately two weeks and will include a return envelope with international postage.

Thank you,

The National Park Service

Appendix 4. The Replacement Mailing Cover Letter



UNITED STATES DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

1849 C. Street, N.W.
Washington, DC 20240



Dear [Name],

About a month ago, on your recent trip to one of the many National Park Service units, we asked you to participate in a visitor survey for the National Park Service. The National Park Service would like to thank you for agreeing to participate in this visitor study. We selected only a small number of visitors to participate in this study; therefore, the return of each questionnaire is very important. The information you provide will help us better manage the National Park Service, and better serve you, our visitor.

If you have already returned your questionnaire, we would like to thank you. However, if you have not, we are asking you to please return it by mail today. Since we have not received yours as of the date we mailed this letter, we have included a replacement questionnaire for your convenience, along with a postage paid envelope.

If you have any questions regarding your questionnaire, please contact the Social Science Program Chief, National Park Service, 1201 Oakridge Drive, Fort Collins, CO, 80525-5596; nps_nrss_social_science@nps.gov (email).

Thank you for your help with this important study. Your opinions matter, and we appreciate you sharing them with us. They will help us improve the management of the National Park Service.

Sincerely,

Jonathan B. Jarvis
Director
National Park Service

Appendix 5. Tabular Unweighted and Weighted Results

Table 27. Unweighted and weighted results, Question 1, Group size.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	99	33%	32%
4	41	14%	13%
3	22	7%	8%
2	114	39%	37%
1	20	7%	10%
Total	296	–	–

Table 28. Unweighted and weighted results, Question 1, Number of adults in group.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	65	22%	20%
4	28	9%	8%
3	24	8%	8%
2	151	51%	47%
1	28	9%	16%
Total	296	–	–

Table 29. Unweighted and weighted results, Question 1, Number of children in group.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	20	7%	7%
4	16	5%	6%
3	21	7%	6%
2	35	12%	13%
1	29	10%	9%
0	175	59%	59%
Total	296	–	–

Table 30. Unweighted and weighted results, Question 2, Group type.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Family	182	62%	57%
Friends	35	12%	12%
Family and friends	33	11%	12%
Alone	28	9%	12%
Other	17	6%	8%
Total	295	–	–

Table 31. Unweighted and weighted results, Question 34, Age.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
85+	0	0%	0%
80-84	1	<1%	<1%
75-79	23	2%	2%
70-74	35	4%	4%
65-69	69	7%	6%
60-64	87	9%	8%
55-59	81	8%	7%
50-54	57	6%	6%
45-49	73	7%	8%
40-44	73	7%	7%
35-39	67	7%	6%
30-34	79	8%	8%
25-29	66	7%	8%
20-24	50	5%	6%
15-19	83	8%	10%
Under 15	133	14%	15%
Total	977	–	–

Table 32. Unweighted and weighted results, Question 35, Gender.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Male	466	49%	48%
Female	492	51%	52%
Total	958	—	—

Table 33. Unweighted and weighted results, Question 35, Hispanic or Latino.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Hispanic or Latino	37	5%	6%
Not Hispanic or Latino	727	95%	94%
Total	764	—	—

Table 34. Unweighted and weighted results, Question 36, Race.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
White	811	87%	88%
Asian	82	9%	9%
American Indian or Alaska Native	33	4%	3%
Black or African American	3	<1%	<1%
Native Hawaiian or other Pacific Islander	1	<1%	<1%

Table 35. Unweighted and weighted results, Question 40, Speaking language.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
English	277	96%	96%
Spanish	4	1%	2%
Other	8	3%	3%
Total	289	—	—

Table 36. Unweighted and weighted results, Question 40, Reading language.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
English	247	96%	96%
Spanish	3	1%	<1%
Other	7	3%	3%
Total	257	—	—

Table 37. Unweighted and weighted results, Question 26, Live within the nearby area.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	35	13%	15%
No	241	87%	85%
Total	276	—	—

Table 38. Unweighted and weighted results, Question 37, Highest level of formal education completed.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Master's doctoral, or professional degree	201	21%	21%
Some graduate school	40	4%	4%
College, business, or trade school	235	25%	21%
Some college, business, or trade school	181	19%	21%
High school graduate or GED	113	12%	11%
Some high school	52	5%	6%
Less than high school	126	13%	15%
Total	948	—	—

Table 39. Unweighted and weighted results, Question 38, Household income.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
\$200,00 or more	29	10%	9%
\$150,00-\$199,999	26	9%	12%
\$100,000-\$149,999	63	22%	26%
\$75,000-\$99,999	31	11%	12%
\$50,000-\$74,999	52	18%	21%
\$35,000-\$49,999	23	8%	12%
\$25,000-\$34,999	11	4%	5%
Less than \$24,999	8	3%	3%
Do not wish to answer	41	14%	18%
Total	284	—	—

Table 40. Unweighted and weighted results, Question 39, Household size.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	39	14%	15%
4	50	18%	17%
3	28	10%	9%
2	137	48%	47%
1	30	11%	13%
Total	284	—	—

Table 41. Unweighted and weighted results, Question 34, Number of visits to park in last 12 months.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	51	7%	6%
4	36	5%	5%
3	42	6%	5%
2	127	17%	15%
1	590	78%	70%
Total	759	—	—

Table 42. Unweighted and weighted results, Question 34, Number of visits to other NPS sites in the last 12 months.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	174	23%	21%
4	69	9%	10%
3	83	11%	11%
2	111	15%	16%
1	172	23%	21%
0	155	20%	20%
Total	764	—	—

Table 43. Unweighted and weighted results, Question 8, Obtained information.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	250	85%	84%
No	45	15%	16%
Total	295	—	—

Table 44. Unweighted and weighted results, Question 8, Information Sources.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Previous visits	125	42%	44%
Friends/relatives/word of mouth	86	29%	27%
Maps/brochures	66	22%	20%
Park website	60	20%	23%
Travel guides/tour books	48	16%	13%
No prior information	45	15%	16%
Other website	28	9%	10%
Other NPS units	12	4%	3%
Social Media	11	4%	3%

Table 44 (continued). Unweighted and weighted results, Question 8, Information Sources.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Government centers	11	4%	3%
Newspaper/magazine articles	10	3%	4%
Park via phone, mail or email	9	3%	5%
Local businesses	9	3%	3%
School class/program	3	1%	2%
TV/radio/DVD	3	1%	2%
Other	8	3%	3%

Table 45. Unweighted and weighted results, Question 9, Had information needed.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	271	93%	92%
No	20	7%	8%
Total	291	—	—

Table 46. Unweighted and weighted results, Question 3, Form of transportation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Car, truck or SUV	273	92%	92%
Airplane	84	28%	27%
Recreational vehicle or motorhome	19	6%	6%
Walk/hike	17	6%	6%
Tour bus or tour van	16	5%	7%
City bus or subway	5	2%	1%
Water-based transportation	4	1%	2%
Train or long-distance passenger bus	1	<1%	<1%

Table 46 (continued). Unweighted and weighted results, Question 3, Form of transportation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Bicycle	0	0%	0%
Other	3	1%	1%

Table 47. Unweighted and weighted results, Question 3, Number of passengers.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	42	23%	24%
4	36	19%	18%
3	21	11%	10%
2	75	41%	39%
1	11	6%	9%
Total	185	–	–

Table 48. Unweighted and weighted results, Question 3, Form of water transportation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Tour boat	4	33%	34%
Ferry	2	17%	29%
Cruise ship	1	8%	11%
Other water-based mode	6	50%	69%

Table 49. Unweighted and weighted results, Question 4, Number of hours traveled.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
25 or more	22	8%	8%
19-24	18	7%	8%
13-18	30	11%	11%
7-12	72	27%	24%

Table 49 (continued). Unweighted and weighted results, Question 4, Number of hours traveled.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Up to 6	120	46%	48%
Total	262	—	—

Table 50. Unweighted and weighted results, Question 4, Number of miles traveled.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
1,251 or more	71	29%	26%
1,001-1,250	8	3%	3%
751-1,000	8	3%	5%
501-750	16	7%	6%
251-500	79	33%	31%
Up to 250	59	24%	28%
Total	241	—	—

Table 51. Unweighted and weighted results, Question 28, Purpose of trip to Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Primary or sole purpose of trip	112	40%	43%
One of several equally important destinations	136	49%	49%
An incidental or spur of the moment stop	30	11%	8%
Total	278	—	—

Table 52. Unweighted and weighted results, Question 28, Other equally important destinations located within nearby area.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	132	80%	81%
No	33	20%	19%
Total	165	–	–

Table 53. Unweighted and weighted results, Question 28, Primary destination located within the nearby area.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	77	62%	59%
No	48	38%	41%
Total	125	–	–

Table 54. Unweighted and weighted results, Question 10, Summary of Important reasons for visiting Glen Canyon NRA on this trip, sum of Extremely Important and Very Important responses.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Spend time with friends/family	234	83%	83%
Be outdoors	224	79%	79%
View wildlife or natural scenery	224	79%	79%
Relax	200	70%	70%
Explore/seek adventure	161	57%	58%
Experience wilderness	140	49%	47%
View dark night sky/stars	110	38%	38%
Hear the sounds of nature/quiet	107	38%	38%
Visit an NPS site	106	37%	34%
Learn more about nature	103	37%	34%
Experience solitude	97	34%	31%

Table 54 (continued). Unweighted and weighted results, Question 10, Summary of Important reasons for visiting Glen Canyon NRA on this trip, sum of Extremely Important and Very Important responses.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Get physical exercise	89	31%	31%
Learn more about American history/culture	88	31%	28%
Attend a special event	19	7%	7%
Other	28	53%	50%
Total	1930	—	—

Table 55. Unweighted and weighted results, Question 10, Importance of viewing wildlife or natural scenery.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	121	42%	40%
Very Important	103	36%	39%
Moderately Important	43	15%	14%
Slightly Important	10	3%	3%
Not at All Important	11	4%	4%
Total	288	—	—

Table 56. Unweighted and weighted results, Question 10, Importance of learning more about nature.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	27	9%	9%
Very Important	76	27%	24%
Moderately Important	80	28%	28%
Slightly Important	61	21%	21%
Not at All Important	42	15%	17%
Total	286	—	—

Table 57. Unweighted and weighted results, Question 10, Importance of spending time with friends/family.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	164	58%	59%
Very Important	70	25%	24%
Moderately Important	21	7%	6%
Slightly Important	3	1%	<1%
Not at All Important	26	9%	10%
Total	284	—	—

Table 58. Unweighted and weighted results, Question 10, Importance of being outdoors.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	108	38%	37%
Very Important	116	41%	42%
Moderately Important	38	13%	12%
Slightly Important	18	6%	8%
Not at All Important	4	1%	<1%
Total	284	—	—

Table 59. Unweighted and weighted results, Question 10, Importance of hearing the sounds of nature/quiet.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	49	17%	17%
Very Important	57	20%	20%
Moderately Important	83	29%	29%
Slightly Important	45	16%	16%
Not at All Important	50	18%	17%
Total	284	—	—

Table 60. Unweighted and weighted results, Question 10, Importance of relaxing.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	89	31%	29%
Very Important	111	39%	41%
Moderately Important	52	18%	19%
Slightly Important	23	8%	7%
Not at All Important	12	4%	4%
Total	287	—	—

Table 61. Unweighted and weighted results, Question 10, Importance of visiting an NPS site.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	44	16%	16%
Very Important	63	22%	19%
Moderately Important	69	24%	24%
Slightly Important	41	15%	18%
Not at All Important	65	23%	24%
Total	282	—	—

Table 62. Unweighted and weighted results, Question 10, Importance of learning more about American history and culture.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	28	10%	9%
Very Important	61	21%	19%
Moderately Important	75	26%	26%
Slightly Important	60	21%	20%
Not at All Important	62	22%	25%
Total	286	—	—

Table 63. Unweighted and weighted results, Question 10, Importance of experiencing solitude.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	35	12%	12%
Very Important	62	22%	19%
Moderately Important	69	24%	25%
Slightly Important	51	18%	17%
Not at All Important	66	23%	26%
Total	283	—	—

Table 64. Unweighted and weighted results, Question 10, Importance of viewing dark night sky/stars.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	56	20%	19%
Very Important	54	19%	19%
Moderately Important	65	23%	22%
Slightly Important	40	14%	13%
Not at All Important	71	25%	27%
Total	286	—	—

Table 65. Unweighted and weighted results, Question 10, Importance of getting physical exercise.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	28	10%	8%
Very Important	60	21%	23%
Moderately Important	98	35%	35%
Slightly Important	50	18%	18%
Not at All Important	47	17%	16%
Total	283	—	—

Table 66. Unweighted and weighted results, Question 10, Importance of attending a special event.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	11	4%	5%
Very Important	8	3%	2%
Moderately Important	13	5%	6%
Slightly Important	17	6%	6%
Not at All Important	216	82%	81%
Total	265	—	—

Table 67. Unweighted and weighted results, Question 10, Importance of exploring/seeking adventure.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	73	26%	26%
Very Important	88	31%	32%
Moderately Important	60	21%	20%
Slightly Important	28	10%	9%
Not at All Important	34	12%	13%
Total	283	—	—

Table 68. Unweighted and weighted results, Question 10, Importance of experiencing wilderness.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Extremely Important	59	21%	19%
Very Important	81	29%	28%
Moderately Important	69	24%	24%
Slightly Important	37	13%	15%
Not at All Important	36	13%	14%
Total	282	—	—

Table 69. Unweighted and weighted results, Question 11, Most important reason for visiting Glen Canyon NRA on this trip.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Spend time with friends/family	79	31%	37%
View wildlife or natural scenery	63	25%	26%
Explore/seek adventure	16	6%	7%
Visit an NPS site	15	6%	7%
Other - To enjoy water activities	14	6%	6%
Relax	13	5%	5%
Learn more about American history/culture	9	4%	2%
Be outdoors	9	4%	4%
Experience wilderness	6	2%	2%
Experience solitude	4	2%	1%
Learn more about nature	2	<1%	1%
View dark night sky/stars	2	<1%	<1%
Attend a special event	1	<1%	<1%
Hear sounds of nature/quiet	1	<1%	<1%
Other	20	8%	9%
Total	254	—	—

Table 70. Unweighted and weighted results, Question 5, Entrance fee.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Senior Pass, Access Pass, or Military Pass	72	24%	27%
America the Beautiful	57	19%	17%
7-day entrance pass	48	16%	16%
Did not pay a fee or use a pass to enter the park	46	16%	16%

Table 70 (continued). Unweighted and weighted results, Question 5, Entrance fee.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Annual Pass for Glen Canyon NRA	46	16%	15%
Fee included in tour package	14	5%	4%
Don't know/ Not sure	6	2%	2%
Other	7	2%	3%
Total	296	—	—

Table 71. Unweighted and weighted results, Question 7, Number of hours in park.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	52	38%	40%
4	22	16%	18%
3	18	13%	11%
2	27	20%	20%
Up to 1	19	14%	11%
Total	138	—	—

Table 72. Unweighted and weighted results, Question 7, Number of days in park

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	53	35%	36%
4	21	14%	15%
3	28	19%	19%
2	46	31%	29%
1	2	1%	2%
Total	150	—	—

Table 73. Unweighted and weighted results, Question 6, Number of days enter/re-enter park.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	21	8%	8%
4	15	5%	5%
3	28	10%	10%
2	45	16%	17%
1	166	60%	60%
Total	275	—	—

Table 74. Unweighted and weighted results, Question 27, Stay overnight.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	228	78%	76%
No	63	22%	24%
Total	291	—	—

Table 75. Unweighted and weighted results, Question 27, Accommodation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Backcountry camping in Glen Canyon NRA	6	2%	2%
Camping in Glen Canyon NRA	35	13%	11%
Camping outside Glen Canyon NRA	22	8%	8%
Houseboat in Glen Canyon NRA	35	13%	11%
Lodging in Glen Canyon NRA	48	18%	14%
Lodging outside Glen Canyon NRA	104	40%	37%
Other accommodations	10	4%	3%
Total	260	—	—

Table 76. Unweighted and weighted results, Question 27, Number of nights backcountry camping in Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	2	33%	16%
4	0	0%	0%
3	2	33%	23%
2	2	33%	61%
1	0	0%	0%
Total	6	–	–

Table 77. Unweighted and weighted results, Question 27, Number of nights camping in Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	8	23%	22%
4	5	14%	14%
3	4	11%	9%
2	11	31%	30%
1	7	20%	25%
Total	35	–	–

Table 78. Unweighted and weighted results, Question 27, Number of nights camping outside Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	8	36%	28%
4	1	5%	10%
3	3	14%	7%
2	6	27%	27%
1	4	18%	27%
Total	22	–	–

Table 79. Unweighted and weighted results, Question 27, Number of nights houseboating in Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	22	63%	69%
4	6	17%	16%
3	2	6%	4%
2	5	14%	11%
1	0	0%	0%
Total	35	—	—

Table 80. Unweighted and weighted results, Question 27, Number of nights lodging in Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	5	10%	11%
4	6	13%	16%
3	4	8%	11%
2	18	38%	31%
1	15	31%	31%
Total	48	—	—

Table 81. Unweighted and weighted results, Question 27, Number of nights lodging outside Glen Canyon NRA

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	19	18%	24%
4	8	8%	8%
3	13	13%	11%
2	24	23%	18%
1	40	38%	39%
Total	104	—	—

Table 82. Unweighted and weighted results, Question 27, Number of nights in other accommodations.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	4	40%	34%
4	0	0%	0%
3	2	20%	26%
2	2	20%	19%
1	2	20%	21%
Total	10	—	—

Table 83. Unweighted and weighted results, Question 29, Visit other NPS sites on trip away from home.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	167	59%	64%
No	118	41%	36%
Total	285	—	—

Table 84. Unweighted and weighted results, Question 12, Activity participation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Viewing wildlife, natural features, scenery, wildflowers, etc.	224	76%	76%
Walking/short hike (< 1 hour)	168	57%	53%
Motorized water travel	128	43%	46%
Driving for pleasure	111	38%	35%
Visiting a cultural or historic site	108	37%	36%
Water play	108	37%	37%
Creative arts	72	24%	24%
Camping via boat	51	17%	16%
Family gathering/reunion	51	17%	19%

Table 84 (continued). Unweighted and weighted results, Question 12, Activity participation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Non-motorized water travel	49	17%	19%
Picnicking	45	15%	15%
Day hiking (≥ 1 hour)	40	14%	13%
Camping in developed sites	40	14%	15%
Fishing	38	13%	13%
Overnighting in resort, cabin, or other accommodations	29	10%	9%
Nature study	21	7%	7%
Rock climbing/bouldering	15	5%	5%
Canyoneering	13	4%	5%
Running/jogging	6	2%	2%
Bicycling	3	1%	1%
Overnight backpacking	1	<1%	<1%
Hunting/trapping	0	0%	0%
Other	15	5%	7%

Table 85. Unweighted and weighted results, Question 13, Primary activity.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Motorized water travel	59	21%	24%
Viewing wildlife, natural features, scenery, wildflowers, etc.	58	21%	25%
Visiting a cultural or historic site	22	8%	8%
Water play	15	5%	7%
Partaking in an organized tour	11	4%	5%
Day hiking (≥ 1 hour)	10	4%	4%

Table 85 (continued). Unweighted and weighted results, Question 13, Primary activity.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Camping via boat/houseboat	10	4%	4%
Walking/short hike (< 1 hour)	9	3%	4%
Driving for pleasure	7	3%	3%
Family gathering/reunion	7	3%	3%
Non-motorized water travel	6	2%	5%
Creative arts	5	2%	2%
Fishing	5	2%	2%
Camping in developed sites	5	2%	3%
Bicycling	1	<1%	2%
Overnighting in resort, cabin, other accommodations	1	<1%	<1%
Other	4	1%	<1%
No primary activity	45	16%	15%
Total	280	—	—

Table 86. Unweighted and weighted results, Question 18, Member in group with physical condition.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	12	4%	4%
No	279	96%	96%
Total	291	—	—

Table 87. Unweighted and weighted results, Question 18, Difficulty.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Mobility	9	75%	84%
Hearing	1	8%	7%
Visual	1	8%	6%
Other	2	17%	18%

Table 88. Unweighted and weighted results, Question 14, Program/service participation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Going to the Visitor Center	126	53%	52%
Viewing outdoor exhibits	96	40%	36%
Reading the park brochure or newspaper	95	40%	40%
Talking informally with a ranger	81	34%	34%
Viewing indoor exhibits	77	32%	29%
Watching movies or videos about the park	36	15%	18%
Boat tour	36	15%	16%
Attending ranger-led activity	28	12%	11%
Obtaining a National Park passport stamp	19	8%	9%
Attending cultural demonstration or performance	6	3%	3%
Listening to an audio tour or podcast	6	3%	2%
Participating with a child in Junior Ranger program	4	2%	2%
Using a smart phone app specific to Glen Canyon NRA	3	1%	<1%
Other	30	13%	15%

Table 89. Unweighted and weighted results, Question 15, Learned from staff, programs, and/or exhibits.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	96	33%	33%
No	191	67%	67%
Total	287	—	—

Table 90. Unweighted and weighted results, Question 16, Desire to learn about subjects.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	49	19%	19%
No	204	81%	81%
Total	253	—	—

Table 91. Unweighted and weighted results, Question 30, Purchase package tour(s).

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	43	15%	17%
No	245	85%	83%
Total	288	—	—

Table 92. Unweighted and weighted results, Question 30, Number of days of package tour(s).

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
2 or more	20	54%	54%
1	17	46%	46%
Total	37	—	—

Table 93. Unweighted and weighted results, Question 30, Cost per person of package tour(s).

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
\$201 or more	17	50%	50%
\$101 - \$200	6	18%	21%
Up to \$100	11	32%	30%
Total	34	—	—

Table 94. Unweighted and weighted results, Question 30, Number of people in group on package tour(s)

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	6	17%	9%
4	4	11%	11%
3	6	17%	28%
2	17	47%	41%
1	3	8%	11%
Total	36	—	—

Table 95. Unweighted and weighted results, Question 30, Included in package tour(s).

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Guide services	29	66%	58%
Local ground transportation	26	59%	58%
Meals	21	48%	51%
Admission to events or attractions	20	45%	41%
Local lodging	17	39%	41%
Local water transportation	15	34%	43%
Fees	6	14%	18%
Gear	6	14%	12%
Local air transportation	5	11%	8%
Other	1	2%	4%

Table 96. Unweighted and weighted results, Question 31, Total expenditures.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
\$2,001 or more	64	22%	22%
\$1,501 - \$2,000	22	7%	9%
\$1,001 - \$1,500	23	8%	7%
\$501 - \$1,000	55	19%	17%
\$1 - \$500	92	31%	31%
Spent no money	40	14%	14%
Total	296	—	—

Table 97. Unweighted and weighted results, Question 33, Total number of people covered by the expenses for this trip.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	84	31%	30%
4	40	15%	14%
3	22	8%	12%
2	98	37%	33%
1	24	9%	11%
Total	268	—	—

Table 98. Unweighted and weighted results, Question 33, Number of adults covered by the expenses for this trip.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	56	21%	20%
4	25	9%	9%
3	21	8%	8%
2	136	51%	47%
1	29	11%	17%
Total	267	—	—

Table 99. Unweighted and weighted results, Question 33, Number of children covered by the expenses for this trip.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	19	6%	6%
4	13	4%	5%
3	17	6%	5%
2	33	11%	13%
1	24	8%	6%
0	190	64%	65%
Total	296	—	—

Table 100. Unweighted and weighted results, Question 33, Number of people in group who split trip expenses.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
5 or more	30	14%	13%
4	20	9%	9%
3	15	7%	6%
2	108	50%	49%
1	41	19%	22%
Total	214	—	—

Table 101. Unweighted and weighted results, Question 32, Out of area expenses.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
\$1,001 or more	35	24%	23%
\$751 - \$1,000	20	14%	8%
\$501 - \$750	7	5%	6%
\$251 - \$500	30	21%	20%
\$1 - \$250	42	29%	34%
Spent no money	10	7%	9%
Total	144	—	—

Table 102. Unweighted and weighted results, Question 21, Visit met expectations.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Yes	265	92%	91%
Not entirely	22	8%	9%
Not at all	2	<1%	<1%
Total	289	–	–

Table 103. Unweighted and weighted results, Question 17, Extremely or very important to use personal electronic devices to do specific tasks.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Make/receive cell phone call	104	37%	38%
Send/receive text message	97	35%	35%
Search the Internet	69	25%	27%
Share pics/videos/audio via social media	59	22%	22%
Download an NPS podcast	9	3%	3%
Other	10	16%	13%
Total	348	–	–

Table 104. Unweighted and weighted results, Question 17, Good or very good quality of service required to do specific tasks.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Make/receive cell phone call	85	39%	47%
Send/receive text message	79	38%	43%
Share pics/videos/ audio via social media	59	33%	38%
Search the Internet	57	30%	37%

Table 104 (continued). Unweighted and weighted results, Question 17, Good or very good quality of service required to do specific tasks.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Download an NPS podcast	17	18%	22%
Other	7	23%	20%
Total	304	—	—

Table 105. Unweighted and weighted results, Question 22, Glen Canyon NRA is a safe place to visit.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	118	41%	43%
Agree	137	48%	47%
Neither Agree nor Disagree	26	9%	8%
Disagree	6	2%	2%
Strongly Disagree	0	0%	0%
Total	287	—	—

Table 106. Unweighted and weighted results, Question 22, Glen Canyon NRA is too crowded.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	15	5%	5%
Agree	36	13%	13%
Neither Agree nor Disagree	101	36%	35%
Disagree	100	35%	34%
Strongly Disagree	30	11%	12%
Total	282	—	—

Table 107. Unweighted and weighted results, Question 22, Natural resources in Glen Canyon NRA are in pristine condition.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	50	18%	17%
Agree	144	53%	53%
Neither Agree nor Disagree	57	21%	22%
Disagree	18	7%	7%
Strongly Disagree	2	<1%	<1%
Total	271	–	–

Table 108. Unweighted and weighted results, Question 22, The entrance fee for Glen Canyon NRA is too high.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	19	8%	9%
Agree	30	12%	14%
Neither Agree nor Disagree	90	37%	34%
Disagree	72	30%	30%
Strongly Disagree	31	13%	13%
Total	242	–	–

Table 109. Unweighted and weighted results, Question 22, Vandalism and crime are not a problem in Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	41	18%	19%
Agree	103	45%	43%
Neither Agree nor Disagree	58	26%	28%
Disagree	19	8%	7%
Strongly Disagree	6	3%	3%
Total	227	–	–

Table 110. Unweighted and weighted results, Question 22, Glen Canyon NRA is not accessible to persons with physical disabilities.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	3	2%	2%
Agree	24	14%	16%
Neither Agree nor Disagree	76	44%	42%
Disagree	54	31%	32%
Strongly Disagree	17	10%	9%
Total	174	—	—

Table 111. Unweighted and weighted results, Question 22, Historical and cultural features in Glen Canyon NRA are well maintained/preserved.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	43	18%	15%
Agree	153	63%	64%
Neither Agree nor Disagree	44	18%	18%
Disagree	2	<1%	<1%
Strongly Disagree	2	<1%	1%
Total	244	—	—

Table 112. Unweighted and weighted results, Question 22, Development of adjacent areas detracts from visitors' experiences at Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Strongly Agree	10	4%	3%
Agree	29	12%	11%
Neither Agree nor Disagree	78	33%	32%
Disagree	91	39%	42%
Strongly Disagree	26	11%	13%
Total	234	—	—

Table 113. Unweighted and weighted results, Question 23, Quality of the facilities, services, and recreational opportunities in Glen Canyon NRA, sum of Very Good and Good responses.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Outdoor recreation	226	93%	95%
Visitor center	178	91%	94%
Exhibits (indoor and outdoor)	168	86%	89%
Assistance from park employees	177	85%	86%
Park map or brochure	183	84%	84%
Restrooms	197	82%	85%
Learning about nature, history, or culture	154	80%	77%
Walkways, trails, and roads	204	78%	78%
Ranger programs	58	77%	81%
Value for entrance fee paid	161	71%	70%
Campgrounds and/or picnic areas	91	66%	69%
Commercial services in the park	107	57%	61%
Total	1904	—	—

Table 114. Unweighted and weighted results, Question 23, Quality of learning about nature, history, or culture.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	60	31%	29%
Good	94	49%	49%
Average	34	18%	20%
Poor	4	2%	2%
Very poor	1	<1%	<1%
Total	193	—	—

Table 115. Unweighted and weighted results, Question 23, Quality of ranger programs.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	22	29%	32%
Good	36	48%	49%
Average	15	20%	17%
Poor	2	3%	2%
Very poor	0	0%	0%
Total	75	—	—

Table 116. Unweighted and weighted results, Question 23, Quality of outdoor recreation.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	121	50%	52%
Good	105	43%	43%
Average	15	6%	5%
Poor	2	<1%	<1%
Very poor	0	0%	0%
Total	243	—	—

Table 117. Unweighted and weighted results, Question 23, Quality of assistance from park employees.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	89	43%	43%
Good	88	42%	44%
Average	30	14%	13%
Poor	2	<1%	<1%
Very poor	0	0%	0%
Total	209	—	—

Table 118. Unweighted and weighted results, Question 23, Quality of park map or brochure.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	69	32%	30%
Good	114	52%	53%
Average	29	13%	14%
Poor	5	2%	2%
Very poor	1	<1%	<1%
Total	218	—	—

Table 119. Unweighted and weighted results, Question 23, Quality of value for entrance fee paid.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	69	30%	30%
Good	92	41%	40%
Average	50	22%	22%
Poor	13	6%	5%
Very poor	3	1%	2%
Total	227	—	—

Table 120. Unweighted and weighted results, Question 23, Quality of walkways, trails, and roads.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	74	28%	25%
Good	130	50%	53%
Average	50	19%	19%
Poor	6	2%	2%
Very poor	2	<1%	<1%
Total	262	—	—

Table 121. Unweighted and weighted results, Question 23, Quality of visitor center.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	105	54%	54%
Good	73	37%	41%
Average	17	9%	6%
Poor	0	0%	0%
Very poor	0	0%	0%
Total	195	—	—

Table 122. Unweighted and weighted results, Question 23, Quality of exhibits.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	77	39%	36%
Good	91	47%	52%
Average	26	13%	11%
Poor	1	<1%	<1%
Very poor	0	0%	0%
Total	195	—	—

Table 123. Unweighted and weighted results, Question 23, Quality of restrooms.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	73	30%	30%
Good	124	52%	55%
Average	33	14%	11%
Poor	9	4%	3%
Very poor	1	<1%	<1%
Total	240	—	—

Table 124. Unweighted and weighted results, Question 23, Quality of campgrounds and/or picnic areas.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	34	25%	25%
Good	57	41%	44%
Average	40	29%	24%
Poor	4	3%	4%
Very poor	3	2%	3%
Total	138	—	—

Table 125. Unweighted and weighted results, Question 23, Quality of commercial services in the park.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	31	17%	17%
Good	76	41%	44%
Average	63	34%	32%
Poor	11	6%	5%
Very poor	6	3%	3%
Total	187	—	—

Table 126. Unweighted and weighted results, Question 24, Overall quality of the facilities, services, and recreational opportunities in Glen Canyon NRA.

Label	Unweighted Frequency	Unweighted Valid %	Weighted Valid %
Very good	111	38%	42%
Good	145	50%	47%
Average	31	11%	10%
Poor	3	1%	<1%
Very poor	0	0%	0%
Total	290	—	—

Appendix 6. Detailed Sampling Procedures

Site Schematics

As noted, the SEM visitor survey was administered at seven locations in Glen Canyon NRA. A specific survey administration point was identified at each sampling location, based on analysis of aerial site photos and onsite scoping. The survey administration point for each location was denoted with a yellow star in a site schematic provided to the survey administrator assigned to the site (Figure 106 through Figure 112). A red line was used in each site schematic to denote the boundary or point at which visitor groups were considered to have entered the survey area and were intercepted for the survey. A red arrow was used in each site schematic to denote the direction of travel in which visitor groups were intercepted.

Timed-Interval Sampling Procedures

At all sampling locations, visitor groups were sampled using a timed-interval approach (i.e., attempt to sample one visitor group every N minutes of the sampling day, where N is the time interval); interval times were designed in advance of onsite administration to ensure that there was a sufficient number of questionnaires to administer to visitor groups during all hours of each sampling day and each day of the sampling period. The timed-interval sampling procedure was used to intercept visitors on foot and in vehicles, as described below.

On foot intercepts – Carl Hayden Visitor Center and Horseshoe Bend

At Carl Hayden Visitor Center (Figure 106) and Horseshoe Bend (Figure 107), the timed-interval approach involved having the survey administrator contact the first visitor group to enter the survey area at the start of the sampling period and asking them to participate in the survey. If the group agreed to participate, they were administered the survey; if the group refused to participate, they were asked to complete the non-response bias questions and then thanked for their time. After completing a contact with a refusal group, the survey administrator contacted the next visitor group to enter the survey area and asked them to participate in the survey. The survey administrator continued this process until a visitor group agreed to participate; once a participating group was administered the survey, the survey administrator waited until the start of the next time interval to contact a visitor group. At the start of the next time interval, the survey administrator contacted the first group to enter the survey area and asked them to participate in the survey. If the next time interval started before the survey administrator was able to recruit a visitor group to participate in the survey for the previous time interval, he/she advanced to the next time interval simply by contacting the next arriving visitor group; once a group agreed to participate, the survey administrator then waited until the start of the next time interval to continue. The survey administrator repeated this sequence of steps throughout the sampling period.



Figure 106. Carl Hayden Visitor Center sampling location.



Figure 107. Horseshoe Bend sampling location.

Vehicle intercepts – All other sampling locations

At all other sampling locations (Figure 108 through Figure 112), visitor groups were sampled by contacting vehicles using the time-interval sampling procedure. Each day, traffic cones and sandwich boards were set up along the roadside by survey administrators before the sample period began to provide advanced notice of the survey to oncoming vehicles. Traffic cones were also set up to denote a pull-over location for intercepted vehicles. During the sample period, survey administrators used hand-held stop/slow signs and large, commanding arm motions to intercept and direct moving vehicles into the pre-identified pull-over location for survey administration.

At the start of the sampling period at each vehicle intercept location, the survey administrator used a hand-held stop/slow sign and large, commanding arm motions to intercept and direct the first approaching vehicle into a pre-identified pull-over location for survey administration. Once the vehicle was safely pulled over and stopped, the survey administrator briefly introduced the study to the driver and asked the visitor group to participate in the survey. If the group agreed to participate, they were handed the mail-back questionnaire packet, asked to complete the address card, and asked to answer the non-response bias questions. If the group refused to participate, they were asked to complete the non-response bias questions and then thanked for their time. After completing a contact with a refusal group, the survey administrator intercepted the next vehicle to enter the survey area and asked them to participate in the survey. The survey administrator continued this process until a visitor group agreed to participate.

Once a participating group was administered the survey, the survey administrator waited until the start of the next time interval to intercept a new vehicle. At the start of the next time interval, the survey administrator intercepted the first vehicle to enter the survey area and asked the visitor group to participate in the survey. If the next time interval started before the survey administrator was able to recruit a visitor group to participate in the survey for the previous time interval, he/she advanced to the next time interval simply by intercepting the next arriving vehicle. Once a visitor group agreed to participate, the survey administrator then waited until the start of the next time interval to continue. The survey administrator repeated this sequence of steps throughout the sampling period.

If a tour bus entered the study area as the next arriving vehicle at the start of the timed interval, the survey administrator intercepted the tour bus entering the study area. In the same manner as other vehicles were intercepted, the survey administrator used a hand-held stop/slow sign and large, commanding arm motions to intercept and direct moving tour buses into the pre-identified pull-over location for survey administration. Once the bus was safely stopped, the survey administrator briefly introduced the study to the tour bus operator and requested permission to board the bus and administer the survey. If given permission, the survey administrator entered the bus, contacted the visitor group seated in the second row behind the tour bus operator on the driver's side of the bus, and asked them to participate in the survey. If the group agreed to participate, they were handed the mail-back questionnaire packet, asked to complete the address card, and asked to answer the non-response bias questions. If the group refused to participate, they were asked to complete the non-response bias questions and then thanked for their time. After completing a single contact with a visitor group, the survey administrator exited the tour bus. If the intercept completed on the tour bus

resulted in a refusal, the next vehicle to enter the survey area was intercepted and the study administrator asked them to participate in the survey. The survey administrator continued this process until a visitor group agreed to participate.

Occasionally, the survey administrator was unable to stop the next arriving vehicle entering the study area during the timed interval. In these instances, the identified vehicle did not pull over but rather continued driving past the survey intercept location, despite the study administrator's direction to the driver to pull over. These "drive-by refusals" were recorded as refusals without non-response bias questions on the contact log form. After completing a contact or attempted contact (in the case of "drive by refusals") with a refusal group, the survey administrator intercepted the next vehicle to enter the survey area and asked them to participate in the survey. The survey administrator continued this process until a visitor group agreed to participate.



Figure 108. Hite Area sampling location.



Figure 109. Lone Rock sampling location.

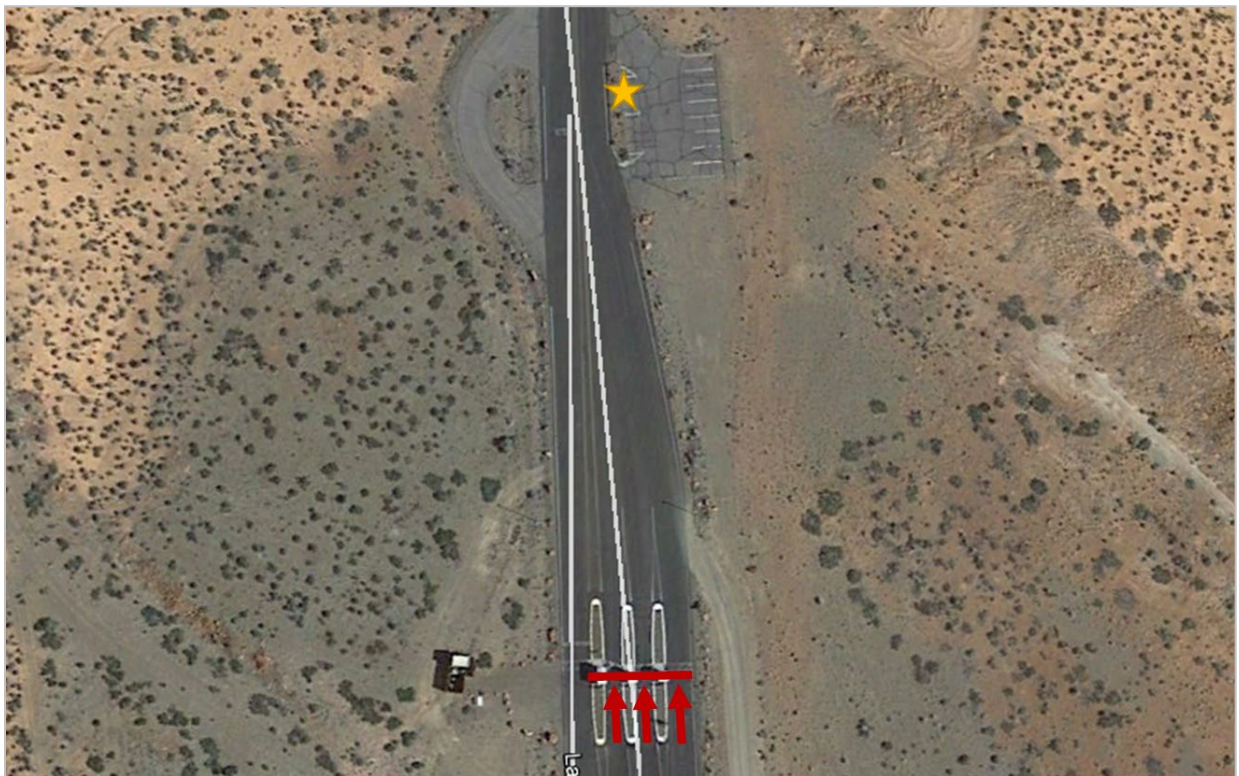


Figure 110. Wahweap South Entrance sampling location.

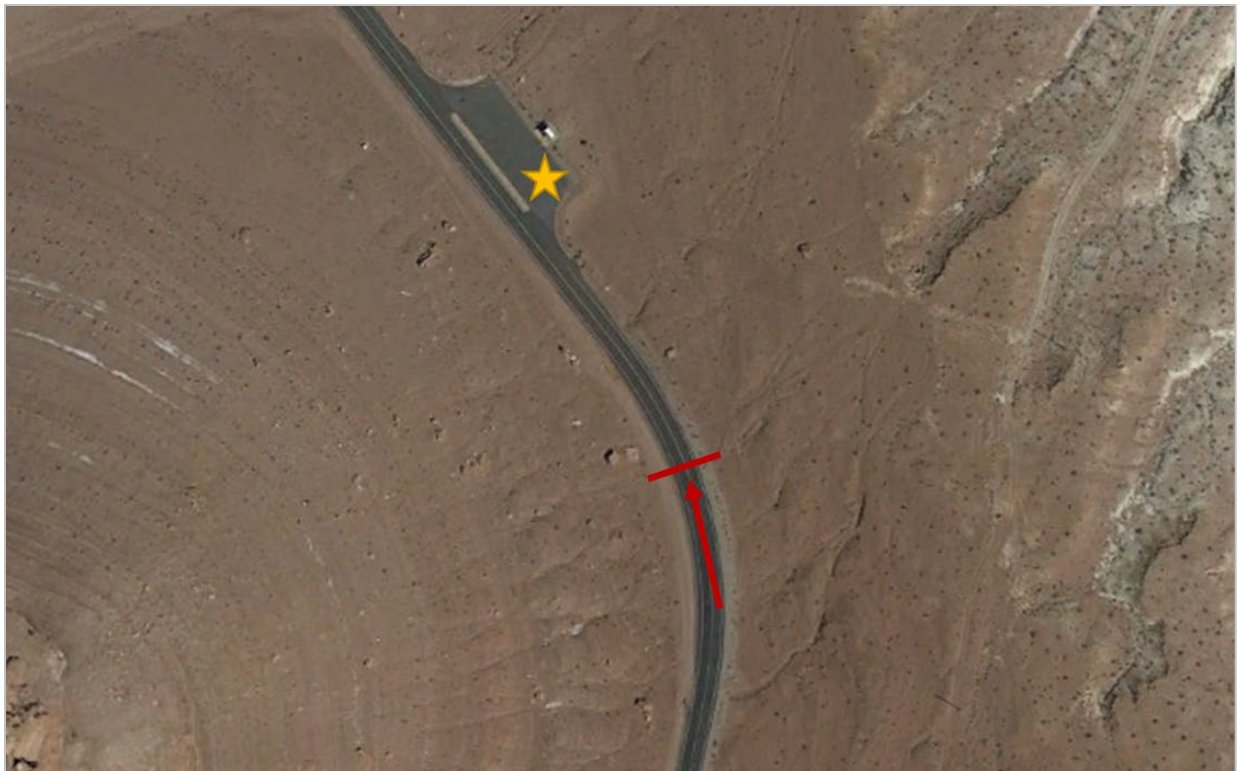


Figure 111. Lee's Ferry sampling location.



Figure 112. Bullfrog Marina Entrance sampling location.

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