



Mission Statement of the Institute for Outdoor Recreation and Tourism:

The Institute for Outdoor Recreation and Tourism (IORT) conducts a program of research, extension, and teaching for the benefit of the people of Utah, our country, and the world, directed at improving our understanding of the relationships between outdoor recreation and tourism, natural resources management, community economic vitality, and quality of life.

Through statewide collaboration and cooperation, IORT will be a source for the creation, communication, and transfer of knowledge on resource-based recreation and tourism issues affecting social, economic, and environmental systems, in order to assist Utah's citizens in making decisions that enhance both community and resource sustainability.

Steven W. Burr, Ph.D.

Director, Institute for Outdoor Recreation and Tourism

Phone: (435) 797-7094

E-mail: steve.burr@usu.edu

Chase C. Lamborn M.S.

Research Associate, Institute for Outdoor Recreation and Tourism

Phone: (801)856-7476

E-mail: chase.lamborn@usu.edu

Department of Environment and Society

Quinney College of Natural Resources

Utah State University

5220 Old Main Hill

Logan, Utah 84322-5220

Table of Contents

	Page
Table of Contents	i
List of Tables	ii
List of Figures	iii
Report Summary	1
Introduction.....	2
Methods.....	2
Results.....	2
Number of surveys completed by site	3
Distance visitors traveled to reach the Central Wasatch Mountains	4
Trip duration.....	5
Number of sites visited per trip	6
Number of visits per year	7
Proportion of visits to developed/undeveloped areas	7
Visitor satisfaction.....	8
Recreational activities participated in by visitors.....	9
Watershed Knowledge.....	12
Wilderness knowledge and visitation.....	14
Number of out-group encounters and effect on visitor experience	15
Places visitors no longer visit	17
Mode of transportation for site access.....	18
Motivations for use of public land.....	19
Group structure	20
Disabilities.....	22
Veteran status	22
Demographics.....	23
Appendices.....	28
Appendix A: Comments for Forest Service	29
Appendix B: Comments regarding management, protection, and development of the Central Wasatch Mountains	41
Appendix C: Comments left by respondents explaining why their out-group encounters positively enhanced their recreational experience	46
Appendix D: Comments left by respondents explaining why their out-group encounters negatively affected their recreation experience by location	54
Appendix E: Places and reason respondents no longer visit	56
Appendix F: Word map.....	60
Appendix G: Survey instrument.....	61

List of Tables

Tables	Page
1	Number of surveys completed by site.....3
2	Respondents' trip duration5
3	Number of days respondents spent recreating on their trip5
4	Respondents visiting more than one site per visit6
5	Number of sites visited by respondents who visited more than one site6
6	Number of times respondents visit the Central Wasatch Mountains in a year7
7	Proportion of respondents who use developed and undeveloped sites8
8	Respondents' main reason for visiting the Central Wasatch Mountains10
9	All activities in which respondents participated11
10	Respondents' geographical knowledge of protected watershed boundaries13
11	Respondents self-reported familiarity with protected watershed regulations13
12	Activities respondents reported participating in in Wilderness Areas15
13	Respondents' mode of transportation to reach desired recreation locations18

List of Figures

Figures	Page
1	Distance visitors traveled to reach the Central Wasatch Mountains.....4
2	Number of times respondents visit the Central Wasatch Mountains in a year7
3	Respondents' satisfaction.....8
4	Respondents' familiarity with protected watershed regulations12
5	Number of out-group encounters16
6	Effect of out-group encounters on respondents' experiences16
7	Location and frequency of negative comments17
8	Number of people per vehicle.....18
9	Mean scores for respondents' motivations for visiting the Central Wasatch Mountains.....20
10	Proportion of respondents recreating alone and in a group21
11	Respondents' group sizes.....21
12	Number of respondents recreating with individuals under 16 years old21
13	Proportion of respondents who reported being disabled, or having a disabled group member(s).....22
14	Proportion of respondents that were veterans23
15	Areas veterans served23
16	Proportion of respondents that reported being Hispanic or Latino(a)24
17	Racial identity of respondents.....25
18	Years in which respondents were born25
19	Proportion of male and female respondents.....26
20	Respondents' highest level of formal education.....26
21	Respondents' household income.....27

Report Summary

The following report outlines the data collected over the fall quarter (September, October, and November) of this twelve-month study. Overall, the data presented in this report is nearly identical to the data presented in the summer report. Many of the questions yielded responses that were within one to two percent of the previous report. This shows us two important things: first, it shows us that our sampling design is producing very consistent results, and second, it shows us that little has changed in the Central Wasatch Mountains between the summer and the fall seasons. The nearly identical results may be attributed to the unusually warm fall weather. It was not until the end of November that we started to see a change in respondents' recreation activities (snowshoeing, backcountry skiing, etc.). This summary will briefly point out the differences in the two reports.

The first difference was the median number of out-group encounters experienced by respondents decreased from 10 (mean 14.5) to 6 (mean 11.89). The percentage of sites covered in the fall quarter was 77%, which is better than the summer's 75%, but we still saw a decrease in the number of surveys completed (636 surveys completed in the fall compared to 722 completed in the summer). The decrease in both the number of out-group encounters and the number of surveys completed demonstrate an overall decrease in the number of people visiting the Central Wasatch Mountains during the fall season.

The third difference was in the type of recreational activities in which respondents participated. As mentioned above, at the end of November we saw an influx of winter activities like skiing (backcountry and resort), snowshoeing, snowboarding (resort), cross-country skiing, and sledding. In addition, hunting appeared as one of the more common activities respondents reported as being their main reason for visiting the Central Wasatch Mountains (however, hunting is still far behind hiking). We also added an additional table that shows all of the recreational activities that respondents reported participating in during their visit to the Central Wasatch Mountains. We hope this new table will provide much more insight into which activities are taking place, and at what frequency, in the Central Wasatch Mountains.

The fourth difference was the number of respondents who reported being disabled, or having a disabled group member(s), decreased from five percent to 2.5%. This could be attributed to people with disabilities not wanting to venture out when the conditions are less favorable (e.g., cold, snowy/muddy conditions, etc.).

The last major difference was the number of respondents who reported being Hispanic/Latino(a) increased from 2.5% to five percent. We have no explanation for this increase at this time.

Another topic that should be noted is that surveying at Brighton, Alta, Snowbird, and Solitude ski resorts started in the beginning of December, and will go to the end of this project. These data will be used to assess the differences in resort and backcountry users during the winter and spring months. Data from the ski resorts will be presented in the following reports.

Introduction

The purpose of this research project is to collect visitor use data (both dispersed use and overall use) on the Salt Lake Ranger District of the Uinta-Wasatch-Cache National Forest, by conducting visitor intercept surveys (on-site interviews) at recreational sites, areas, and trailheads in the Tri-Canyons area (Little Cottonwood, Big Cottonwood, and Mill Creek Canyons), Parley's Canyon, and the Park City—Wasatch Back (private land and resort access). Additionally, for those respondents agreeing to participate, a more-detailed, on-line e-survey will be administered. The data collected and subsequent analysis will be useful for the National Forest, Salt Lake City, and Mountain Accord, a multi-phase initiative that seeks to make critical decisions regarding the future of the Central Wasatch Mountains, made up of a collaboration of public and private interests, including state and local governments, federal agencies, and businesses and grassroots organizations. The research project is being funded through Save Our Canyons, a non-profit organization dedicated to protecting the beauty and wildness of the Wasatch mountains, canyons, and foothills.

This report outlines the data gathered from the intercept survey during the **2014 fall quarter (September, October, and November)** of this twelve-month project. The intercept survey is designed to gather the following information: visitor demographics including group size and make-up; local and non-local use; visitor use patterns; minority use; forms of transportation utilized for access; sites/areas recreated in and activities in which engaged; motivations for recreation participation and personal values/benefits sought; issues of solitude and perceived crowding; and awareness of protected watersheds and designated Wilderness Areas.

Methods

Intercept surveys were administered by volunteers from Save Our Canyons and other stakeholder groups. These volunteers were trained and managed by a USU Institute for Outdoor Recreation and Tourism (IORT) Project Manager, working in conjunction with a Project Field Coordinator who was hired by the Salt Lake Ranger District, Uinta-Wasatch-Cache National Forest. The sampling design, location of sampling sites, and sampling schedule were developed in consultation with the Salt Lake Ranger District, Save Our Canyons, and other stakeholder groups. The target number of surveys by the end of the twelve months is approximately 2000-2500.

Data collected were compiled and entered into SPSS data analysis software, with subsequent analysis. This report is the second of three quarterly reports provided by Utah State University's Institute for Outdoor Recreation and Tourism research scientists, and will be incorporated into the final report.

Results

With the second quarter complete, we are now half way through the scheduled data collection period for the Central Wasatch Visitor Use Study. Over the second quarter, 636 visitor intercept surveys were completed with a response rate of 63%. The total number of surveys completed over the last six months is 1,391, which exceeds the number of respondents we were expecting at this time—approximately 1,125.

Forty sites were scheduled each month—ten sites from each area within the Central Wasatch Mountains: Little Cottonwood Canyon, Big Cottonwood Canyon, Millcreek Canyon, and the Wasatch Back. Approximately 77% of the scheduled sites were surveyed, which is slightly higher than last quarter's 75%. Table 1 presents the number of surveys completed at each survey location.

Table 1: Number of surveys completed by site

	Surveys	(Percent of Surveys Completed)
<u>Little Cottonwood Canyon</u>		
White/Red Pine	4	(.6)
Alta Central	10	(1.6)
Lisa Falls	7	(1.1)
Catherine's Pass	55	(8.6)
Albion Meadows Trailhead	19	(3)
Albion Base of Alta Ski Area	6	(.9)
West Gate	24	(3.8)
Bell's Canyon/Lightning Ridge	27	(4.2)
<u>Big Cottonwood Canyon</u>		
Mill B South/North	81	(12.7)
Butler Fork	13	(2)
Cardiff Fork/Mill D South/Donut Falls	5	(.8)
Willow Heights	6	(.9)
Silver Lake	46	(7.2)
Dogwood	1	(.2)
GWT TH at Brighton (i.e., Lake Mary Trail)	61	(9.6)
<u>Millcreek Canyon</u>		
Big/Little Water	14	(2.2)
Mill Creek Winter Gate	31	(4.9)
Porter Fork	24	(3.8)
Church Fork	21	(3.3)
Rattlesnake Gulch	12	(1.9)
Terraces/Desolation Trail	42	(6.6)
Thayne's Canyon TH	4	(.6)
Neff's Canyon TH	11	(1.7)
Mount Olympus TH	28	(4.4)
<u>Park City/Wasatch Back/Parley's Canyon</u>		
24/7	11	(1.7)
Armstrong	13	(2.0)
Rob's	11	(1.7)
Glenwild	46	(7.2)
Quinn's in Round Valley	3	(.5)
Total	636	(100.0)

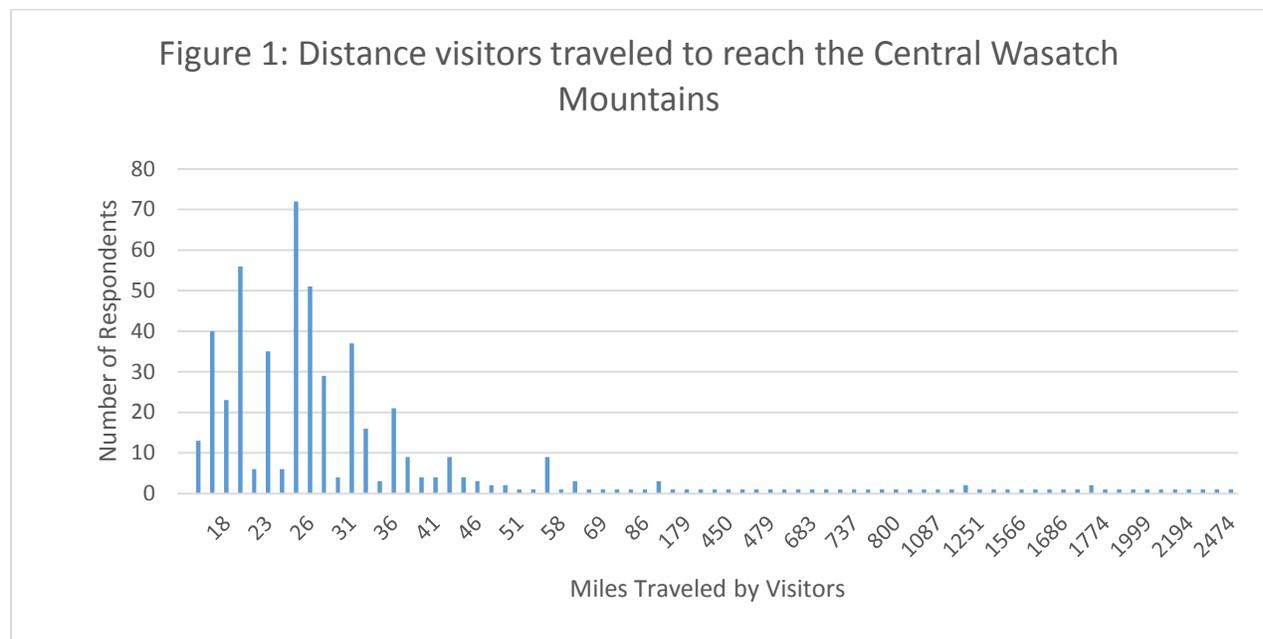
This section follows the format of the intercept survey. Each question on the intercept survey is presented in italics, and is followed by tables, graphs, and interpretations of the data.

Are you a resident of the United States?

Yes ***If Yes, what is your Home Zip Code?*** _____

No ***If No, what Country are you from?*** _____

The question above was used to identify how far visitors are traveling to reach the Central Wasatch Mountains (CWM). This analysis was done by calculating the distance each zip code was from a central location (i.e., Brighton Ski Resort) in the Wasatch Mountains. As seen in Figure 1, the overwhelming majority of visitors live fewer than 40 miles from Brighton Ski Resort. The median distance traveled by visitors was 26 miles (median distance for the summer quarter was 25 miles), and the mean distance was 133 miles (mean for the summer quarter was 110 miles). The large discrepancy between the median and mean illustrates the heavily right-skewed distribution of the histogram below. The maximum distance traveled by U.S. residents to reach the Central Wasatch Mountains during the second quarter was 2,474 miles. Our sample contains seven visitors who traveled to the CWM from outside of the United States—these individuals were from Canada (three people), Chile (two people), Columbia (one person), and England (one person). These data show that 82.4% (summer = 84.2%) of CWM visitors live fewer than 40 miles from Brighton Ski Resort. Even though there was a slight shift in the distance visitors traveled during the fall quarter, these data are near identical to the first quarter. This is indicative of two things: first, the sampling methods are producing consistent results; and second, little has changed in the distance visitors are traveling to reach the CWM during the fall.



How long are you going to be recreating on this trip?

- Short trip under three hours**
 About half the day
 The majority of the day
 Overnight
 Multiple days – if so, how many? _____ days

The question above is used to gauge how long respondents are spending in the CWM during their recreational visit. The majority (64.9%) of respondents spent fewer than three hours recreating during their visit, and 23.8% spent about half the day. Only 6.3% spent the whole day recreating, and 1.5% spent the night. Twenty-one (3.5%) individuals said they were spending multiple days, which ranged from three to fourteen days. Table 2 presents the amount of time respondents are recreating during their visit, and Table 3 present the number of days respondents spent recreating for those who spent multiple days in the CWM.

Table 2: Respondents' Trip Duration

	Number	Percent
Short trip under three hours	384	64.9
About half the day	141	23.8
The majority of the day	37	6.3
Overnight	9	1.5
Multiple days	21	3.5
Total	592	100

Table 3: Number of days respondents spent recreating on their trip

	Number	Percent
Three days	3	14
Five days	2	10
Seven days	1	5
Fourteen days	2	10
Missing	13	61
Total	21	100

On this trip, are you planning on visiting any other sites besides this one? Yes No

If Yes, how many other sites are you going to visit? _____ sites

Respondents were asked if they plan on visiting more than one site during their trip to the CWM. The majority (82%) of respondents only visited one site during their trip to the CWM. Of the 18% that did visit multiple sites during their recreational visit, 24 respondents visited two sites, 39 visited three sites, ten visited four sites, and ten visited five sites. Table 4 presents the proportion of respondents who visited one site and the respondents who visited more than one site. Table 5 presents the number of sites visited by respondents who visited more than one site.

Table 4: Respondents visiting more than one site per visit

Visited more than one site	Number of respondents	Percent
No	480	82
Yes	129	18
Total	609	100

Table 5: Number of sites visited by respondents who visited more than one site

Total number of sites visited	Number of respondents	Percent
2	24	29
3	39	46
4	10	12
5	10	12
6	1	1
Total	84	100

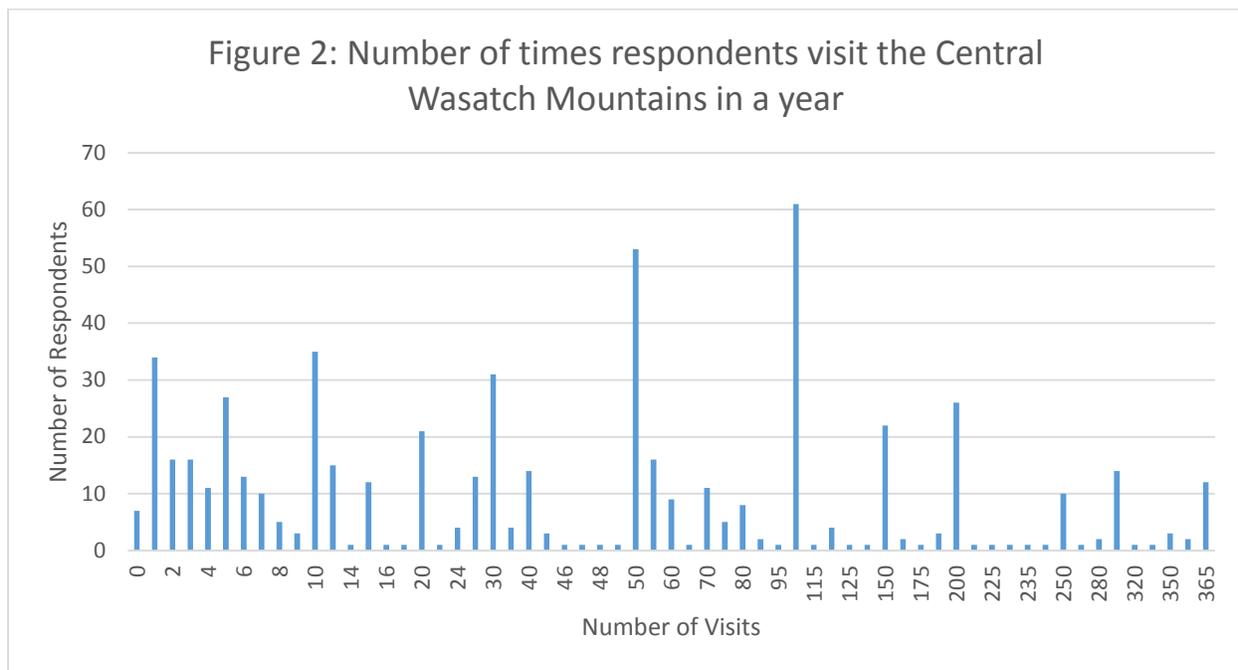
On average, how many times per year do you visit the National Forest here in the Central Wasatch Mountains? _____ times per year

Respondents were asked, on average, how many times they visit the CWM in a year. The median number of times respondents visit the CWM was 40, and the mean was 72.7. Table 6 presents the mean, median, standard deviation, and range of days respondents visit the CWM in a year.

Figure 2 shows the wide range in the number of times respondents visit the CWM per year.

Table 6: Number of times respondents visit the Central Wasatch Mountains in a year

	Visits
Mean	72.7
Median	40
Std. Deviation	89.6
Minimum	1
Maximum	365



What types of areas do you use most often when recreating here in the Central Wasatch Mountains?

- Developed areas, such as developed campgrounds, picnic areas, ski resorts, etc.*
- Undeveloped areas, such as trails, dirt roads, rivers and lakes, dispersed camping, wilderness, etc.*
- I use both developed and undeveloped areas equally.*

Just over half (55%) of the respondents reporting using both developed and undeveloped areas equally, and 35.4% said they mostly use undeveloped areas while recreating in the CWM (Table 7). Only 9.6% of respondents said the use developed sites most often. Because this study is mostly focused on dispersed and backcountry use, it is possible that results are skewed toward the visitation habits of the people who use dispersed and backcountry areas more often. Over the winter quarter, we will be surveying four of the major ski resorts in the Central Wasatch:

Brighton, Solitude, Alta, and Snowbird. These data will allow us to see if there are differences in visitors who use ski resorts. Data from ski resorts will be presented in the Winter Quarterly Report.

Table 7: Proportion of respondents who use developed and undeveloped areas

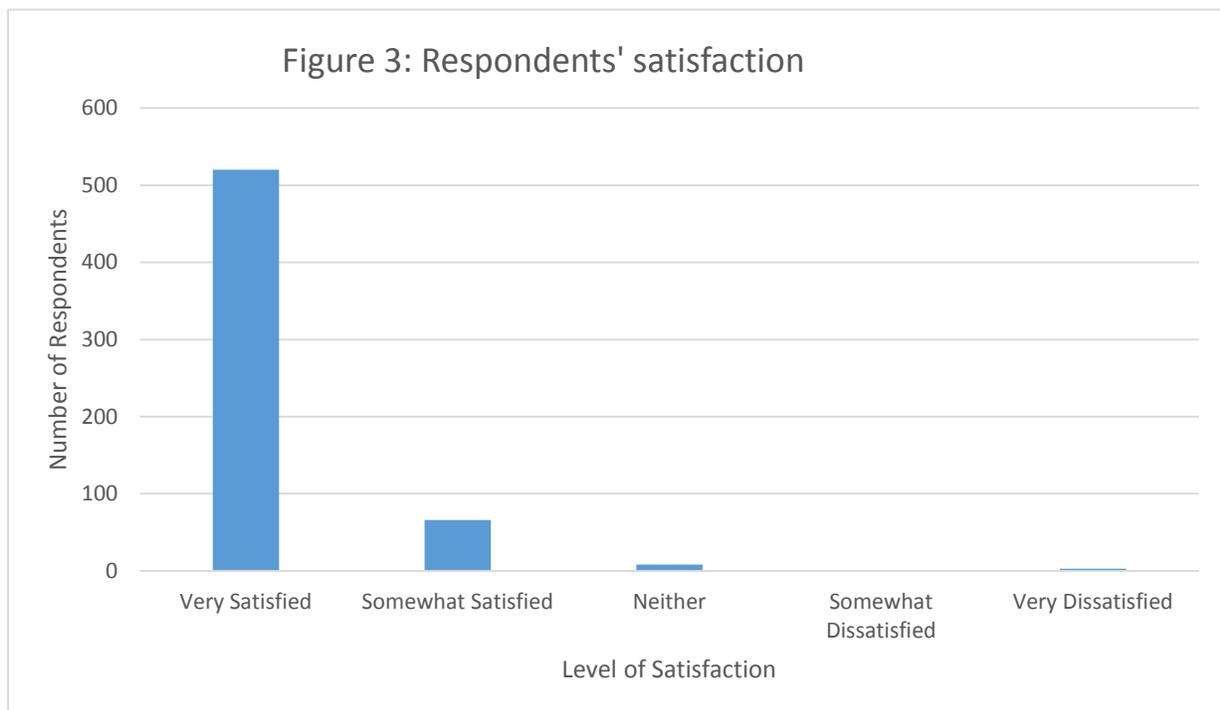
	Number	Percent
Developed	57	9.6
Undeveloped	210	35.4
Both	326	55
Total	593	100

Overall, how satisfied or dissatisfied are you with your visit to the Central Wasatch

Mountains today?

- Very satisfied**
- Somewhat satisfied**
- Neither satisfied or dissatisfied**
- Somewhat dissatisfied**
- Very dissatisfied**

The majority of respondents (87.3%) were “very satisfied” with their visit to the CWM, and 10.9% were “somewhat satisfied.” Less than two percent were “neither satisfied or dissatisfied,” or “Somewhat dissatisfied/very dissatisfied” (Figure 3).



For **TODAY**, please check “✓” all of the Recreation Activities you have participated in (or will participate in). Then, **Circle** your **MAIN** activity or purpose for visiting the Central Wasatch Mountains **TODAY**.

✓	RECREATION ACTIVITIES
	NON-MOTORIZED ACTIVITIES
	Walking
	Hiking
	Horseback Riding
	Road Cycling
	Mountain Biking
	Non-motorized water travel (canoe, kayak, raft, sail)
	Rock climbing
	Ice Climbing
	Downhill skiing (Resort)
	Snowboarding (Resort)
	Cross-country skiing
	Backcountry skiing
	Backcountry snowboarding
	Snowshoeing
	Sledding, tobogganing
	Other non-motorized activities (races, endurance events)
	MOTORIZED ACTIVITIES
	Driving for pleasure on roads (paved, gravel or dirt)
	Riding on motorized trails (non-snow, OHV/ATV)
	Snowmobile travel
	Other motorized activities (races, games)
	VIEWING & LEARNING—NATURE & CULTURE
	Viewing/photographing wildlife, birds, fish, etc.
	Viewing/photographing natural features, scenery, flowers, etc.
	Visiting historic and prehistoric sites/areas
	Nature study
	Visiting a nature center, nature trail, or visitor center

✓	RECREATION ACTIVITIES
	CAMPING OR OTHER OVERNIGHT
	Camping in developed sites (family or group sites)
	Primitive camping (motorized in roaded areas)
	Primitive camping (backpacking in unroaded backcountry areas)
	Resorts, cabins, or other accommodations on Forest Service managed lands (private or FS)
	FISHING & HUNTING
	Fishing—all types
	Hunting—all types
	OTHER ACTIVITIES
	Picnicking or family day gatherings in developed sites (family or group)
	Gathering mushrooms, berries, firewood, or other natural products
	Relaxing, hanging out
	Escaping heat, noise, pollution, etc.
	Exercising
	Walking/Exercising Pet(s)
	OTHER ACTIVITIES NOT LISTED? (Please write in below and ✓ to left.)

The question above asks two things: it first asks respondents to identify all of the recreational activities they will be participating in during their visit to the CWM, and it also asks them to identify their “main” activity or reason for visiting. In the first report, we only reported respondents’ main activity, in this report, we will present respondents’ main activities along with all of the activities respondents identified participating in during their visit.

Seventy-five respondents either did not answer the question, or answered the question in a way that resulted in it being excluded from this analysis (e.g., checking all of the recreational activities they participate in throughout the year). Subsequently, there were 561 respondents that provided quality data. Of the 561, 215 did not circle their “main” activity. The respondents who did **not** circle a main activity were excluded from Table 8, which includes only the respondents who circled a main activity (N = 345). Table 9 however, includes **all** the activities respondents reported participating during their visit to the CWM (N = 561).

Just as in the first report, the most popular “main” recreational activity participated in by CWM visitors was hiking (53%). The second most popular activity was walking (8.7%), followed by mountain biking (7.2%), backcountry skiing (5.5%), trail running (1.4%), rock climbing (2.9%), and hunting (2.9%) (Table 8).

Table 8: Respondents’ main reason for visiting the Central Wasatch Mountains

	Number	Percent
Hiking	183	53
Walking	30	8.7
Mountain Biking	25	7.2
Backcountry Skiing	19	5.5
Trail Running	14	4.1
Rock Climbing	10	2.9
Hunting	10	2.9
Skiing (Resort)	6	1.7
Picnicking	6	1.7
Hiking/Exercising pet(s)	5	1.4
Snowshoeing	5	1.4
Snowboarding (Resort)	5	1.4
	345	100

Note: Recreational activities that had fewer than four respondents were excluded from this table.

Table 9 includes all of the activities respondents reported participating in. Walking (52.8%) and hiking (46.9%) were the most common activities (note the respondents who were hiking/walking would generally check both walking and hiking). Viewing/photographing natural features, scenery, flowers, etc (29.2%) was the third most common activity, followed by exercising (27.8%), viewing/photographing wildlife, birds, fish, etc (26.2%), and relaxing and hanging out (19.9%).

Table 9: All activities in which respondents participated

	Number	Percent*
Walking	296	52.8
Hiking	263	46.9
Viewing/photographing natural features, scenery, flowers, etc	164	29.2
Exercising	156	27.8
Viewing/photographing wildlife, birds, fish, etc	147	26.2
Relaxing, hanging out	111	19.9
Driving for pleasure on roads (paved, gravel, or dirt)	98	17.5
Escaping heat, noise, pollution, etc	91	16.2
Mountain Biking	68	12.1
Downhill Skiing (Resort)	55	9.8
Hiking/Exercising pet(s)	51	9.1
Rock Climbing	47	8.4
Backcountry Skiing	46	8.2
Picnicking of family day gatherings in developed sites (family or group)	39	7
Snowshoeing	36	6.4
Nature study	33	5.9
Camping in developed sites (family or group)	28	5
Road Cycling	26	4.6
Fishing	26	4.6
Snowboarding (Resort)	24	4.3
Visiting a nature center, nature trail, or visitor center	23	4.1
Cross-country skiing	22	3.9
Visiting historic sites	21	3.7
Trail running	20	3.6
Sledding tobogganing	16	2.9
Hunting	16	2.9
Primitive camping (motorized in roaded areas)	12	2.1
Non-motorized water travel	11	2
Primitive camping backpacking in unroaded areas)	10	1.8
Resorts, cabins, or other accommodations (Forest Service or Private)	9	1.6
Ice Climbing	9	1.6
Riding on motorized trails (non-snow, OHV/ATV)	9	1.6
Other non-motorized activities (races, endurance events)	6	1.1
Gathering mushrooms, berries, firewood, or other natural products	6	1.1
Horseback Riding	6	1.1
snowmobiling	5	.9
Backcountry snowboarding	5	.9
Hang Gliding	1	.2

*Percent was calculated from N = 561

were, and 24.9% were incorrect in reporting that they were not. We also examined if respondents who were recreating in a protected watershed at the time they were surveyed reported themselves as being more familiar with protected watershed regulations. The mean score for respondents who were not recreating in a protected watershed was 4.8, and the median was five. Respondents who were recreating in a protected watershed at the time they were surveyed reported being slightly less familiar with protected watershed regulations (mean = 4.71 and median = 5). Table 10 presents the number and percent of respondents who reported themselves being, or not being, in a protected watershed, and Table 11 presents the mean and median scores of respondents' self-reported knowledge of protected watershed regulations.

Table 10: Respondents geographical knowledge of protected watershed boundaries

	Respondent Answer	Number (Percent)
Not in a Protected Watershed	No	80 (32.5)
	Yes	166 (67.5)
	Total	246 (100)
In a Protected Watershed	No	83 (24.9)
	Yes	251 (75.1)
	Total	334 (100)

Table 11: Respondents self-reported familiarity with protected watershed regulations

	Mean (Median)
Not Protected Watershed	4.8 (5)
Protected Watershed	4.71 (5)

We have noticed some confusion with this question. Because the question reads, “Do you know if you are recreating in a protected watershed today?”, respondents who were not recreating in a protected watershed, and knew they were not recreating in a protected watershed, could possibly check “yes” because they *do know that they are not in a protected watershed*. The goal of this question is to test if visitors know if they are recreating in a protected watershed, and the wording of the question has presumably generated some inconsistent results. Therefore, the question has been reworded to the following:

“Did you recreate in a protected watershed today?”

- Yes, I did recreate in a protected watershed, or
 No, I did not recreate in a protected watershed.”

By rewording this question, we will be able to see if we have been getting inconsistent results. In the next report we will address this matter further when we have data to compare.

Do you know this National Forest has Congressionally designated Wilderness Areas?

Yes No

If Yes, have you ever recreated in a Congressionally designated Wilderness Area in this National Forest?

Yes No

If Yes, what is the name of the Wilderness Area(s) in which you recreated?

I don't remember the name of the Wilderness Area(s).

What recreation activities do you typically engage in during your visits to Wilderness Areas? (List below)

Another question respondents were asked was if they knew the Uinta-Wasatch-Cache National Forest had congressionally designated Wilderness areas. Of the 581 respondents who answered the question, 176 (27.7%) respondents said they did not know the U-W-C National Forest had Wilderness areas, and 404 (63.5%) said they did know. Respondents were also asked if they had ever recreated in the Wilderness areas on the U-W-C National Forest, and of the 553 who responded to the question, 275 (49.7%) said “no,” they have not recreated in any of the Wilderness areas, and 278 (50.3%) said they have. Of the people who had recreated in the Wilderness areas, 67 said they had recreated in the Mount Olympus Wilderness Area, 51 said they had recreated in the Lone Peak Wilderness Area, 22 said they had recreated in the Twin Peaks Wilderness Area, and 144 said they had recreated in a Wilderness area but they did not remember the name of the Wilderness Area(s). The most popular recreational activity in Wilderness areas was hiking (233). Other popular Wilderness activities reported by respondents were primitive camping (78), backcountry skiing (61), mountain biking (53), rock climbing (40), and trail running (28) (Table 12).

Table 12: Activities respondents reported participating in in Wilderness Areas

	Number
Hiking	233
Primitive camping (backpacking in unroaded areas)	78
Backcountry skiing	61
Mountain Biking	53
Rock Climbing	40
Trail running	28
Fishing	21
Snowshoeing	20
Hunting	11
Walking	10
Backcountry snowboarding	9
Viewing/photographing wildlife, birds, fish, etc	8
Viewing/photographing natural features, scenery, flowers, etc	8
Hiking/Exercising pet(s)	6
Picnicking of family day gatherings in developed sites (family or group)	5
Cross-country skiing	4
Road Cycling	4
Horseback Riding	3
Nature study	2
Sledding, tobogganing	2
Non-motorized water travel (canoe, kayak, raft, sail)	2
Visiting historic sites	1
Exercising	1

About how many people outside of your group did you encounter (see, talk to, interact with, etc.) while recreating today? _____ people

What do you think about the number of people you encountered while recreating today?

Did they positively enhance your experience? Yes No

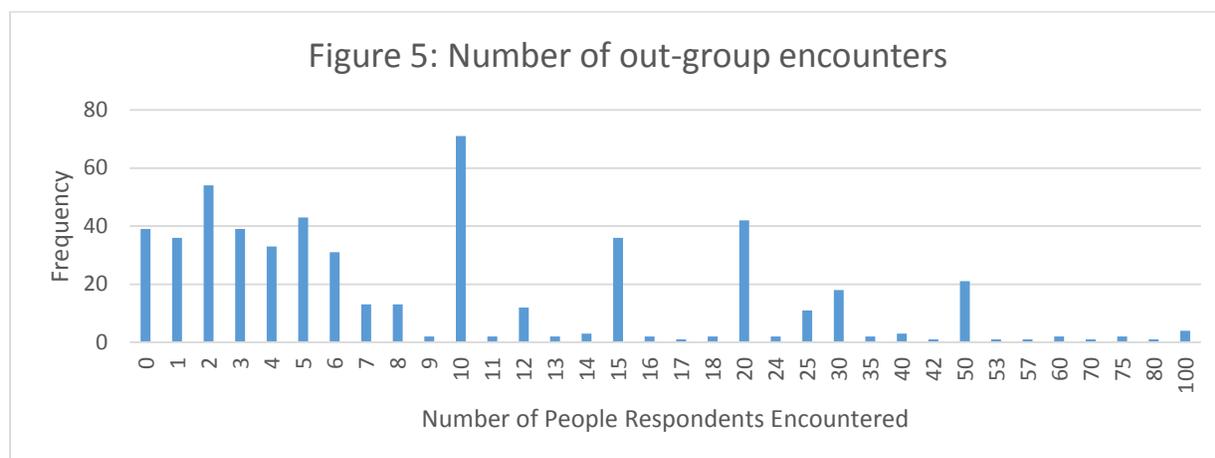
If Yes, in what ways? Please describe:

Did they negatively affect your experience? Yes No

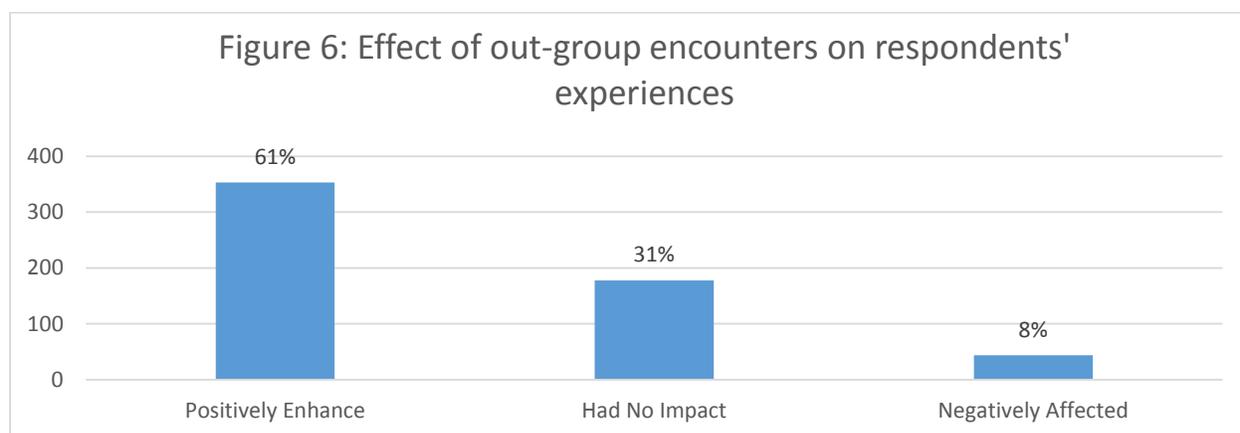
If Yes, in what ways? Please describe:

They neither positively enhanced nor negatively affected my experience.

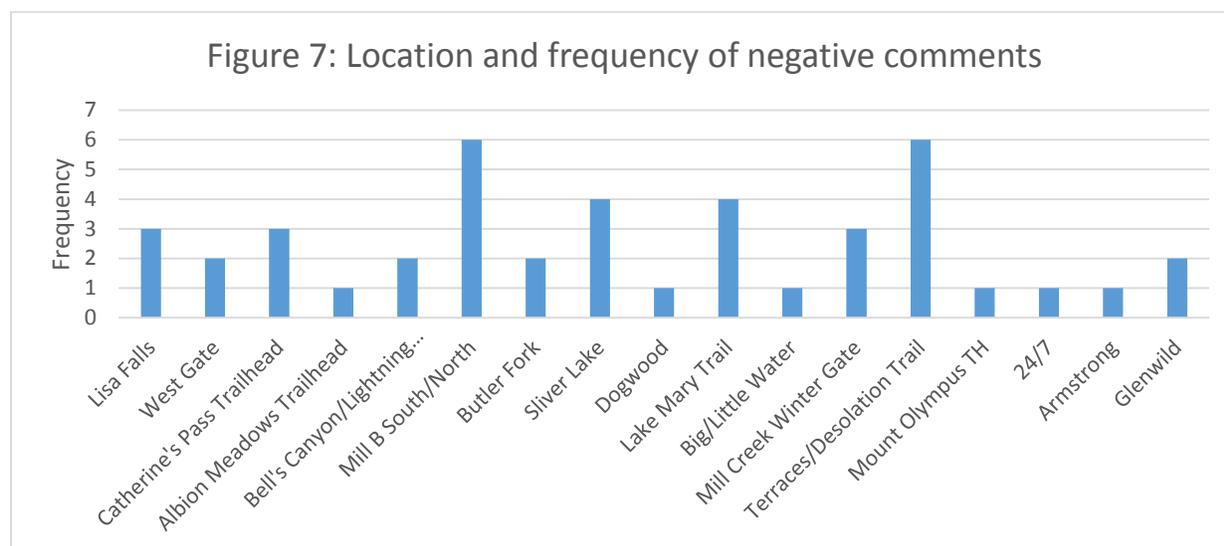
The number of encounters experienced by respondents ranged greatly based on site, day of the week, and time of day. The mean number of encounters experienced by respondents was 11.89, which is down from the summer's report with a mean of 14.5. The median was six, which is also down from this summer's median of ten. The number of encounters ranged from 0-100. Figure 5 presents the number of out-group encounters respondents had while they were recreating in the Central Wasatch Mountains.



Respondents were asked how the people they encountered affected their experience while recreating. The majority (61%) said the people they encountered positively enhanced their experience, and 31% said the people they encountered had no effect on their recreational experience. Only 8% of respondents said the people they encountered negatively affected their recreational experience. Therefore, 92% of respondents said the encounters they had with people outside of their group either positively enhanced or had no effect on their recreational experience. Figure 6 presents the proportion of respondents whose trip was positively enhanced, negatively affected, or was not impacted by the encounters they had with people outside of their group. Comments that were left by respondents explaining why the encounters they had positively or negatively (negative comments are grouped by location) affected their recreational experience can be found in Appendix D on page 54.



For further analysis, the frequency of comments left by respondents describing why the encounters they had negatively affected their experience was graphed by location (Figure 7). Mill B South/North and Terraces/Desolation both had six negative comments. Silver Lake and Lake Mary both had four negative comments. Negative comments grouped by location can be found in Appendix D.



Are there places in the Central Wasatch Mountains you no longer visit because encounters with other forest users/uses have negatively affect your recreational experience? Yes No

If Yes, please identify the area(s) and explain the type of encounter and why you no longer visit:

Respondents were asked if there were any areas in the CWM that they no longer visit because they have had negative experiences with other forest users or uses. Of the 578 people who responded to the question, 481 (83.2%) said there were not areas they no longer visit because they have had negative encounters, and 97 (16.8%) said there are places they no longer visit. Comments left by respondents explaining the areas and reasons why they no longer visit them can be found in Appendix E (Page 56).

How did you access the recreation site you are visiting today? (Check one)

Personal Vehicle—How many people were in your vehicle TOTAL? _____

Public Transit (bus, TRAX)

Private Shuttle

Biked on my own

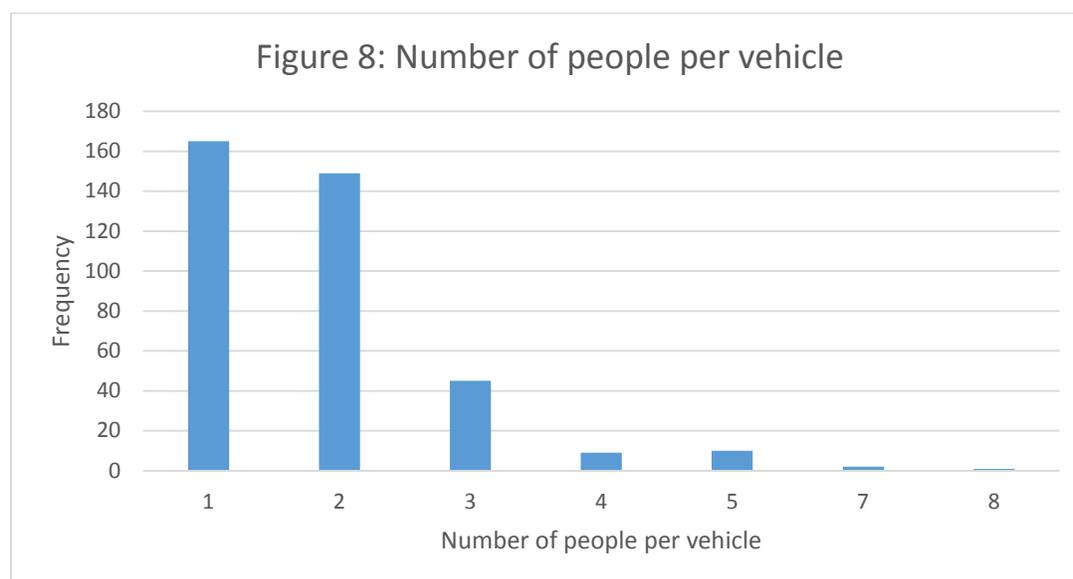
Walked on my own

Other Please describe: _____

To better understand the way CWM visitors access recreation sites, respondents were asked what mode of transportation they used to access their desired recreation location. The majority (92.7%) of respondents used their personal vehicle, 5.4% walked on their own, and 1.6% biked. Not one respondent used public transportation, and 0.3% used a private shuttle. The number of passengers was measured as the total number of people in the respondent's personal vehicle. The median number of people in personal vehicles was two (mean 1.67), and the range was 1-8 people. Table 13 presents the modes of transportation used by respondents to reach their desired location, and Figure 8 presents the number of people per vehicle.

Table 13: Respondents' mode of transportation to reach desired recreation location

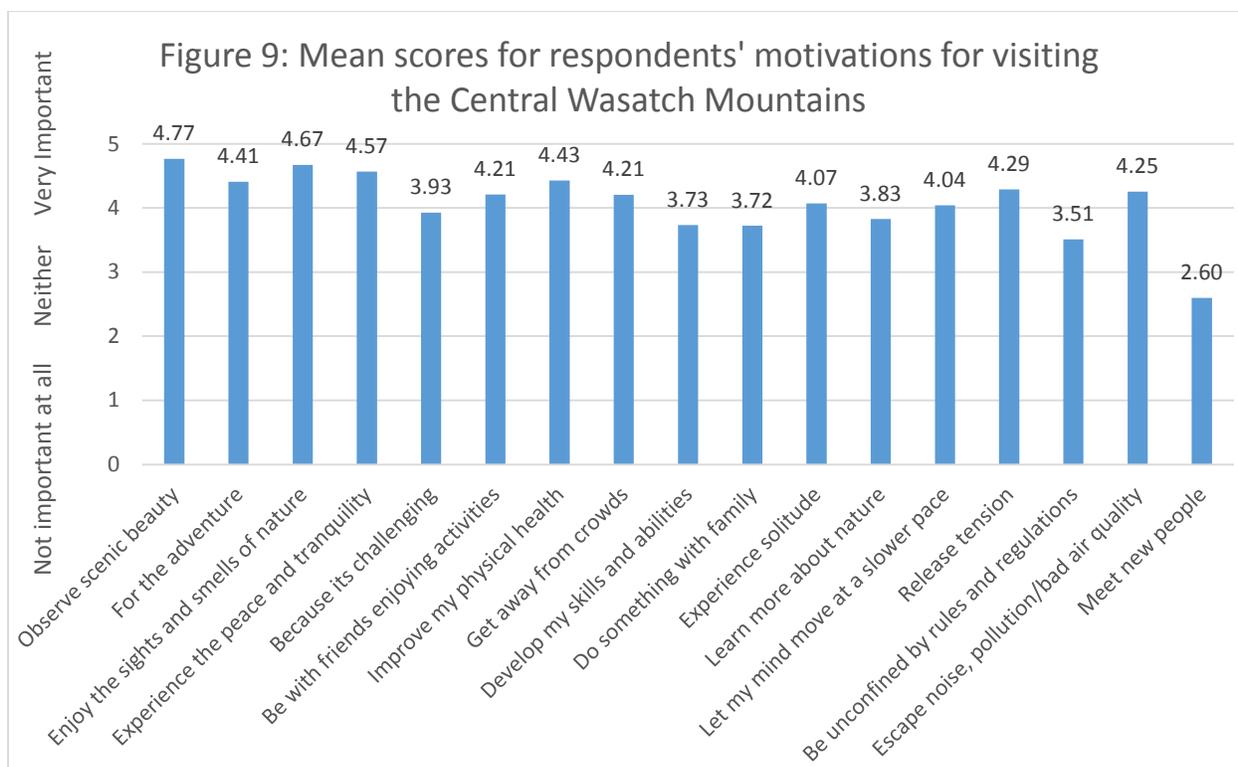
	Number	Percent
Personal vehicle	540	92.7
Private shuttle	1	.3
Biked on my own	9	1.6
Walked on my own	31	5.4
Total	581	100



What motivated you to recreate TODAY?

	<i>Not Important at All</i>	<i>Somewhat Unimportant</i>	<i>Neither Unimportant nor Important</i>	<i>Somewhat Important</i>	<i>Very Important</i>
<i>Observe scenic beauty</i>	1	2	3	4	5
<i>For the adventure</i>	1	2	3	4	5
<i>Enjoy the sights and smells of nature</i>	1	2	3	4	5
<i>Experience the peace and tranquility</i>	1	2	3	4	5
<i>Because its challenging</i>	1	2	3	4	5
<i>Be with friends enjoying activities</i>	1	2	3	4	5
<i>Improve my physical health</i>	1	2	3	4	5
<i>Get away from crowds</i>	1	2	3	4	5
<i>Develop my skills and abilities</i>	1	2	3	4	5
<i>Do something with family</i>	1	2	3	4	5
<i>Experience solitude</i>	1	2	3	4	5
<i>Learn more about nature</i>	1	2	3	4	5
<i>Let my mind move at a slower pace</i>	1	2	3	4	5
<i>Release tension</i>	1	2	3	4	5
<i>Be unconfined by rules and regulations</i>	1	2	3	4	5
<i>Escape noise, pollution/bad air quality</i>	1	2	3	4	5
<i>Meet new people</i>	1	2	3	4	5

There are many reason why people visit public lands, and the list of motivations above are some of the most common. Respondents were asked to rank on a scale from “not important at all” to “very important” each of the motivations listed in the table above. Respondents ranked “observe scenic beauty,” “enjoy the sights and smells of nature,” “experience peace and tranquility,” and “improve physical health” as the most important motivating factors for recreating in the CWM. Respondents ranked “meet new people” and “be unconfined by rules and regulations” as the least important motivating factors for recreating in the CWM. Figure 9 presents all of the motivations with their corresponding mean scores.



If you could choose just one or two words to describe your personal feelings about the Central Wasatch Mountains what would the word(s) be?

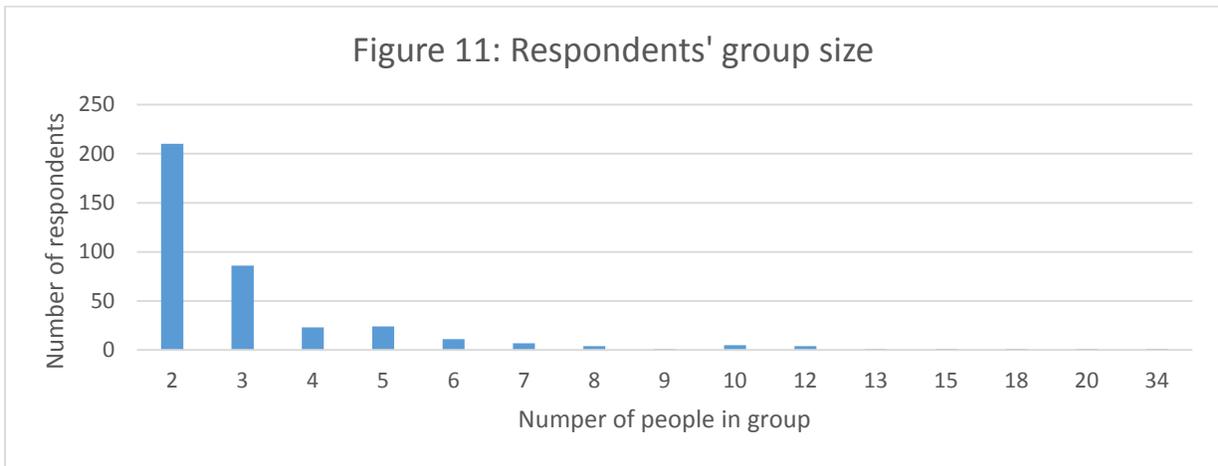
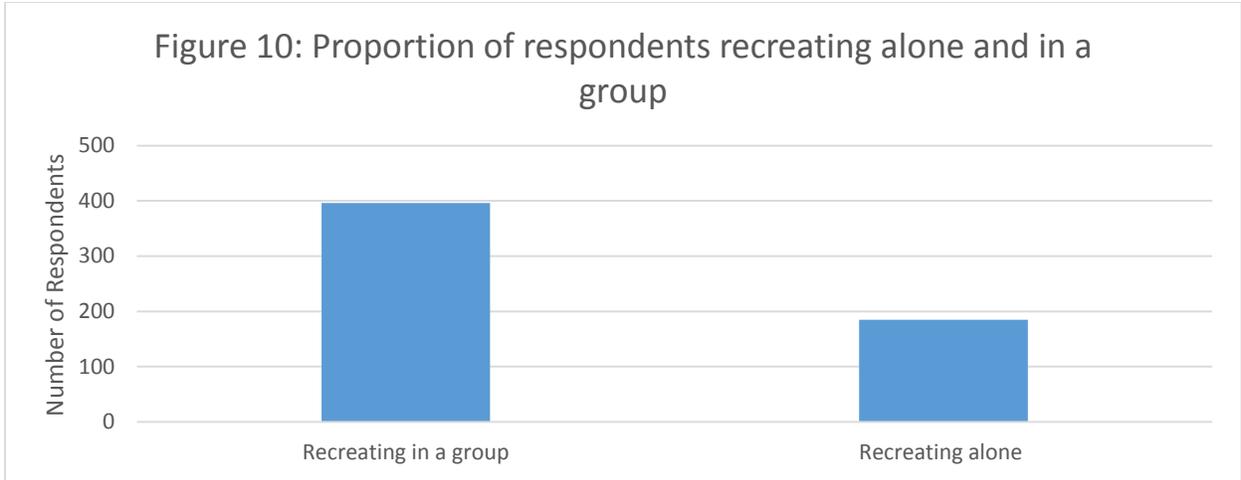
The word map on the cover page of this report was developed from the frequency of words respondents used to describe their personal feeling toward the CWM. The website named *Tagul* was used to develop the word map. For a larger image of the word map, please refer to Appendix F on page 60.

Are you recreating alone today? Yes No

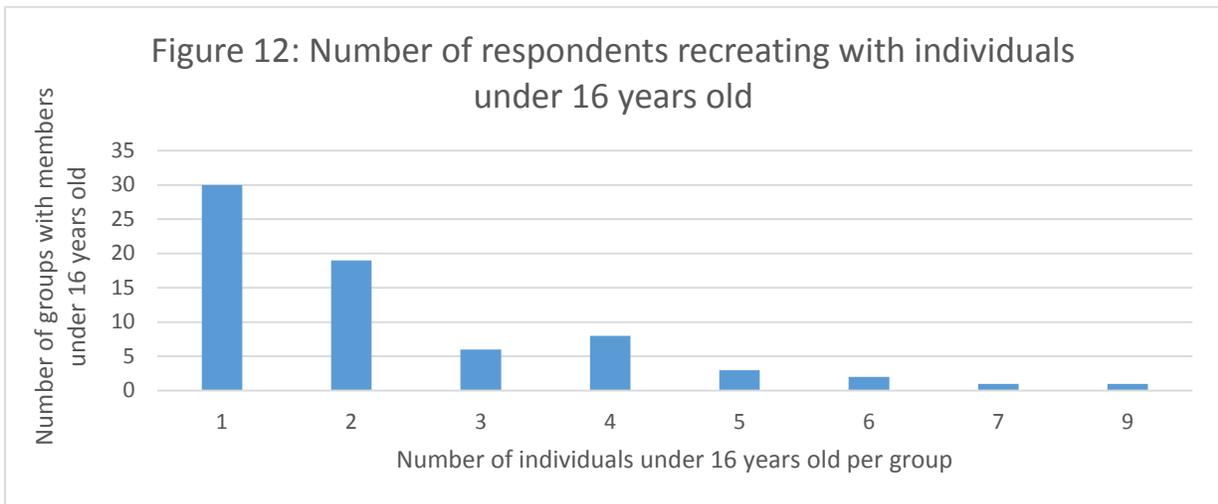
If No, how many people (total) are in your group? _____ people

Of these, how many are under 16 years of age? _____ people

To gain a better understanding about the group structure of CWM visitors, respondents were asked if they were recreating alone, and if they were not, they were asked how many people were in their group, and how many people in their group were under sixteen years or age. Of the 581 respondents that responded to the question, 396 (68.2%) said they were recreating in a group, and 185 (31.8%) said they were recreating alone (Figure 10). For respondents who were recreating in a group, the mean group size was 2.21 (median 2), with a range of 2-34 (Figure 11). One hundred and four respondents were recreating with people under the age of sixteen.



Of the respondents who were recreating with people under 16 years old, most had one (30 respondents) to two (19 respondents) people with them who were under 16 years old (Figure 12).

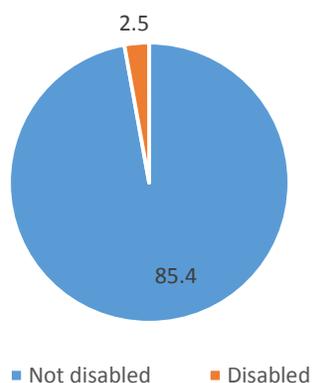


Does anyone in your group have any disabilities? Yes No

If Yes, were the areas and facilities you visited accessible? Yes No

Of the 559 who responded to the question, 16 (2.5%) reported themselves, or someone in their group as being disabled (Figure 13). During the fall, there was a fifty percent decrease in the proportion of disabled visitors; over the summer, five percent of respondents reported themselves, or someone in their group as being disabled. When respondents were asked if the sites and facilities they visited were accessible, two of the 16 said they were not. A comment section was added to the survey so respondents could explain what areas were not accessible to them and why those area were not accessible.

Figure 13: Proportion of respondents who reported being disabled, or having a disabled group member(s)



Are you a veteran? Yes No

If Yes, where did you see service?

World War II

Korean Conflict

Vietnam War

Iraq War(s)

War in Afghanistan

Are you a wounded or disabled veteran? Yes No

Of the 577 who responded to the question, 30 (5.2%) reported themselves as being veterans. The most common area served by these veterans was Iraq, the second most common was Vietnam. Out of the 30 veterans, one reported being either wounded or disabled. Figure 14 shows the proportion of veterans in this study's sample, and Figure 15 shows the areas where the veterans served.

Figure 14: Proportion of respondents that were veterans

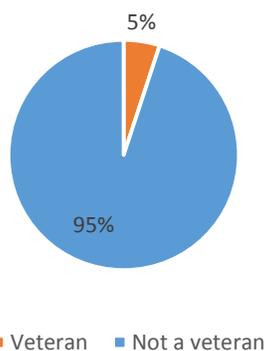
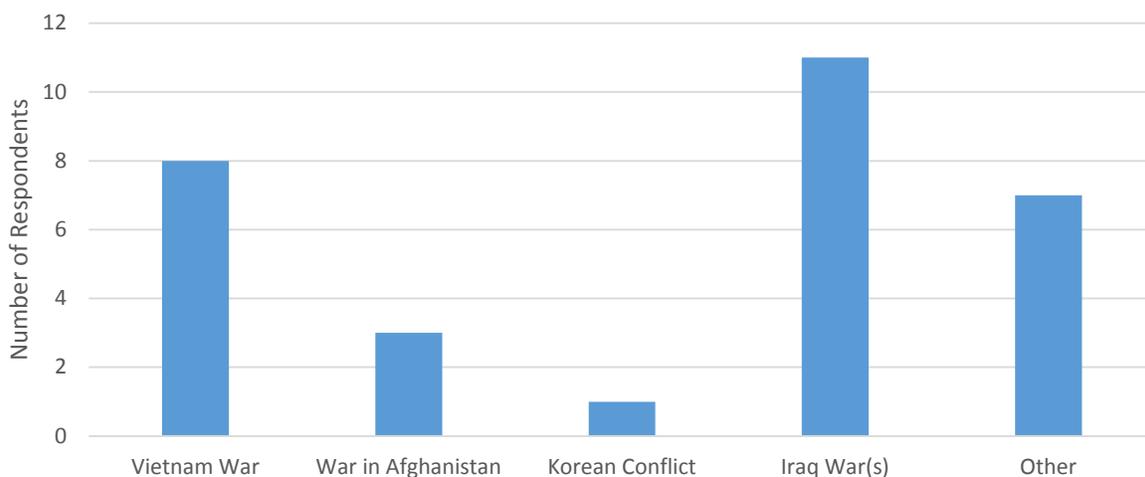


Figure 15: Areas veterans served

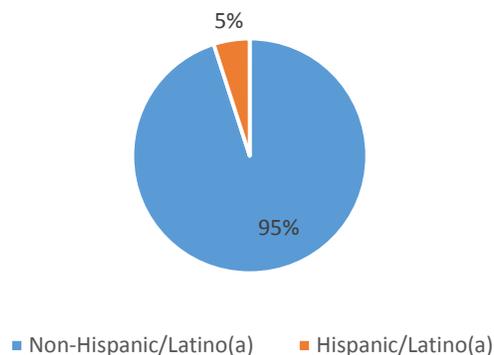


Do you consider yourself Hispanic or Latino(a)?

- Yes, Hispanic or Latino(a)***
- No, not Hispanic or Latino(a)***

Respondents were asked if they considered themselves Hispanic or Latino(a). Of the 564 people who responded to the question, 28 (5%) identified as Hispanic or Latino(a). This is over a 100% increase from the summer quarter, where only sixteen respondents identified as Hispanic or Latino(a) (2%). Figure 16 presents the proportion of respondents that identified as Hispanic or Latino(a).

Figure 16: Proportion of respondents that reported being Hispanic or Latino(a)

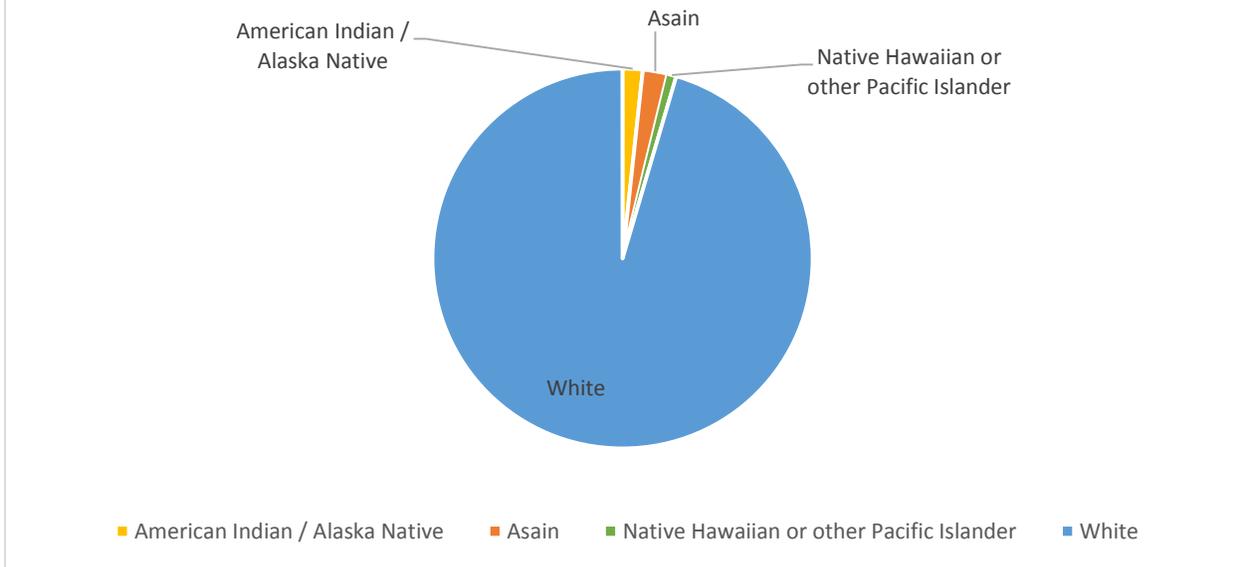


With which racial group do you most closely identify?

- American Indian/Alaska Native***
- Asian***
- Black/African American***
- Native Hawaiian or other Pacific Islander***
- White***

Respondents were asked which racial group they most closely identified, and 95.3% identified as “white.” “Asian” (2.1%) was the next most common racial group respondents identified as, followed by “American Indian/Alaska Native” (1.4%) and “Native Hawaiian or other Pacific Islander” (.8%). Figure 17 presents the proportions of races that respondents most closely identified.

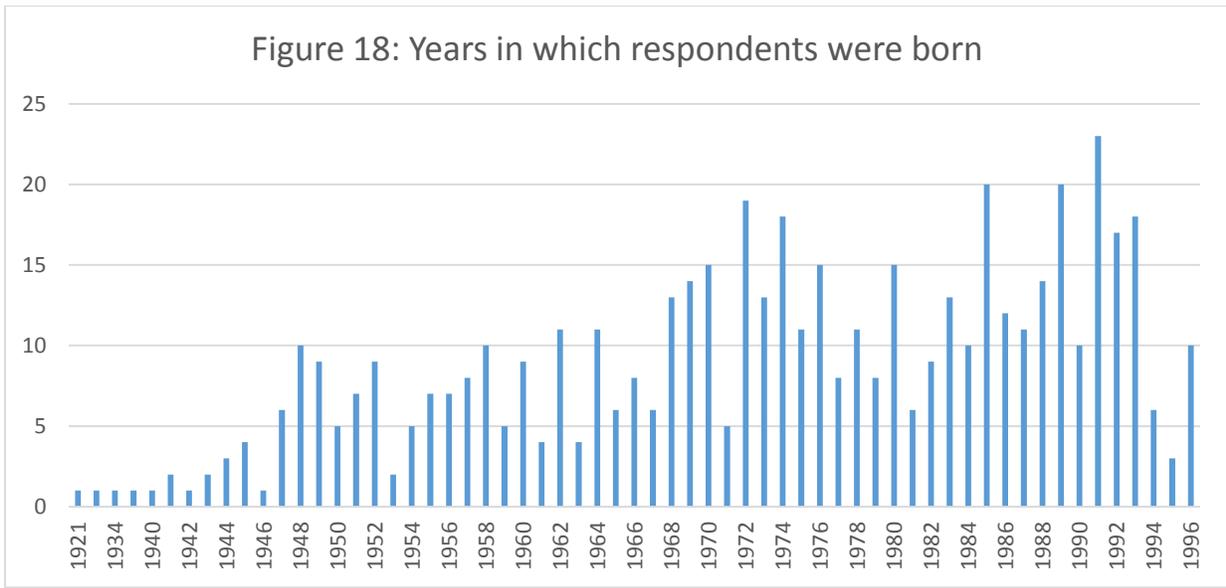
Figure 17: Racial identity of respondents



In what year were you born? _____

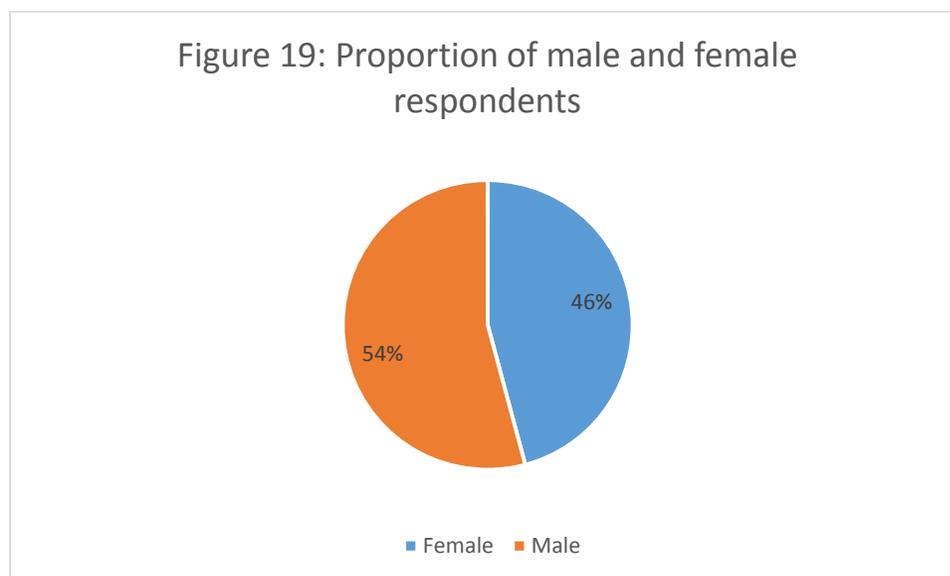
Figure 18 presents the wide distribution of respondents' ages.

Figure 18: Years in which respondents were born



What is your sex: Male Female

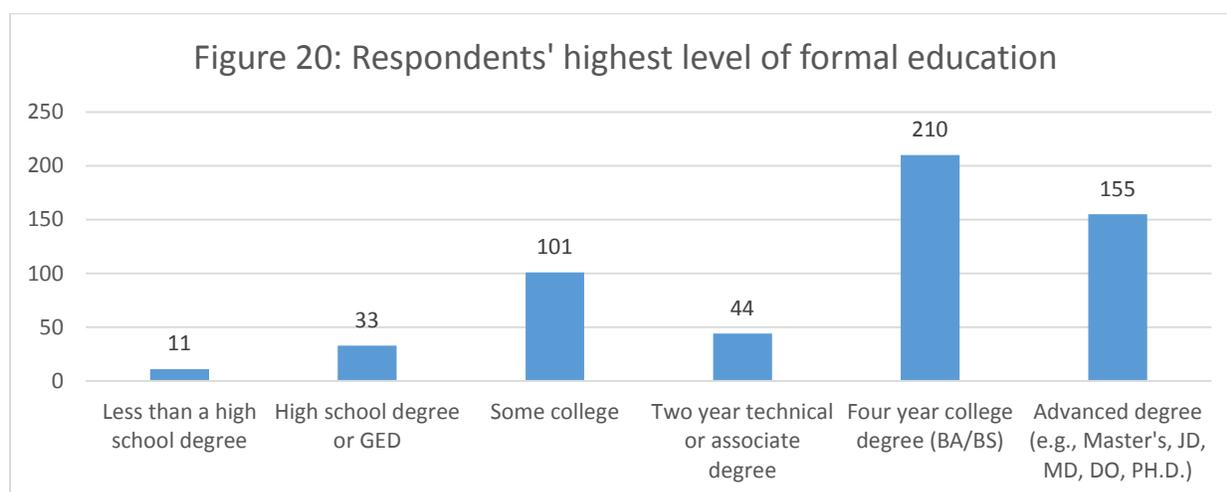
More males (54%) than females (46%) recreated in the CWM in the fall as compared to the summer (51% males and 49% females) (Figure 19).



What is the highest level of formal education you have completed?

- Less than a high school degree High school degree or GED
 Some college 2 year technical or associate degree
 4 year college degree (BA/BS) Advanced degree (e.g., Master's, JD, MD, DO, Ph.D.)

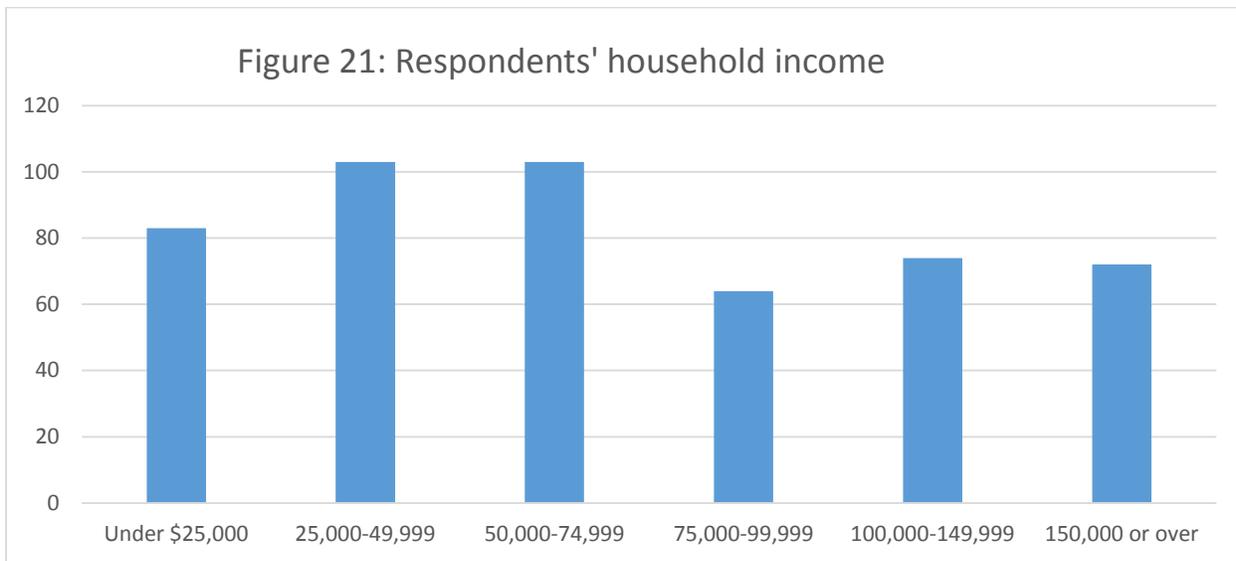
The majority of respondents reported having a four year college degree (37.9%) or an advanced degree (24.4%). Figure 20 presents the respondents highest level of formal education.



Information about income is important because people with different incomes come to Public Lands for different reasons. What is your annual household income?

- Under \$25,000
- \$25,000-\$49,999
- \$50,000-\$74,999
- \$75,000-\$99,999
- \$100,000-\$149,999
- \$150,000 or over
- Don't know

Figure 20 presents the household incomes of CWM visitors.



Appendices

Appendix A: Comments for Forest Service

If you could ask the U.S. Forest Service and/or other Public Land Management Agencies to change some things about the way they manage the Central Wasatch Mountains, what would you ask them to do?

You have done a great job up here!

Keep up the good work!

Are you going to let the marsh grow into Silver Lake? Try to protect the large old-growth trees from the beetles.

Limit number of dogs dog walkers can have in one group, e.g. 5 or fewer.

More dog friendly areas.

Limit commercial development to the greatest extent feasible.

Educate those walking/running to the bike rules. (Yield to the uphill traffic and such).

More dog friendly trails in the winter.

Keep them open, clean and free.

There seems like there are not enough garbage cans to locate dog poo bags.

Install a bridge across East Canyon Creek by fire station on Bitner Road in Park City. Then a short trail west that connects to Blackhawk/Glenwild/Stealth trail.

I admit I don't have good solutions, however the regulations and restrictions irritate me. When I see a "Don't" or "Can't" sign I think of governmental creep and it diminishes my outdoor experience.

Provide more waste baskets.

In established campground, "generator" campers should be separated from "tent campers." Love improved trails for hiking and biking.

Noise restrictions.

Any change for dogs (well behaved) to come.

It would be great if the trails could be numbered along the way so you know you're still on the right path.

Signs for trailheads.

Enforce leash laws for dogs. Make it free.

Inform visitors how fees are being used in the canyon i.e., Millcreek.

Allow and develop more mountain bike trails.

More picnicking.

Do not allow further ski area expansion. Improve parking/transportation issues in Big/Little Cottonwood Canyons.

Better trail markers. Improve maintenance to decrease overgrowth.

Educate the public on picking up after their dogs.

Don't change it.

Let dogs in all SLC canyons.

Rely more on state and local land management agencies. Better integrate different uses and users. Be less autocratic and more user friendly (actually, I think the FS has made progress in this area--and we can always do better/more).

I'm not sure it matters to me but some people would like trail signs to be clearer. I think it's fine.

Bathroom cleanliness when camping. Eash!

Keep it natural.

Nothing. I think they are doing a good job.

They're doing well. Perhaps trash cans along the trail?

They're doing well. We could have more space available for off-road vehicles, ideally.

Fewer bikes and dogs.

Better access to drinking water along trails.

More dog access. Development of water sources to access close to trail.

Allow dogs off leash all days/have more trails that allow dogs.

Reduce unleashed dogs.

Better signs on frequently used trails for beginning hikers.

Enforce/educate people to pick up their dog's crap!

Great job.

Mark trails more clearly.

Bathrooms need work.

Slow development.

More shuttle service to areas with restricted parking.

Allow dogs. Identify trails that allow or do not allow dogs. Campfires: more hours to do it, more fire pits, not just at camp sites but on trails.

Not enough experience.

Let the Bird make more tracks.

Stop development.

Allow dogs.

Open up climbing at the LDS vaults

Better roadside parking and bike lane.

Less construction on roads. Less car noise.

Allow camp fires at White Pine or explain why they're banned.

More dog access.

No watershed or allow dogs in Cottonwood Canyons.

Keep it natural! More places that allow dogs.

More places to hike w/ dogs. Bikes on roads (single lane) too dangerous. Deal with bikes on trails--too fast. Bikes have made ruts in trail because of improper use.

More mountain access with dogs.

Open upper Millcreek in mid-June please!!!

Improve parking in Millcreek. No Ski-link. Better trail signs.

No mountain bikers allowed please.

Clean bathrooms. There was no toilet paper in women's bathroom.

Seems OK.

Increase funding for recreation on NF system lands.

More maintenance to prevent erosion.

More info about the trail at trailhead.

More garbage cans so I don't have to carry other people's crap out.

More parking. Promote less known trail heads to diversify the hiking experience.

Clean up the trash, especially broken glass beer bottles.

I don't like how the fees increased so significantly for campgrounds and the service of them was contracted out. I like campgrounds, but don't use them much anymore because of that.

I have no idea how well/not well they are managed.

Continue to maintain current roads and trails, but allow some forest areas to be wild.

Re-open hunting to more than archery...maybe just muzzleloader.

More trails, no mountain bikes.

Any possibilities to allow dogs on some trails or areas?

I love things the way they are.

My access is very limited because I have a dog. Creating opportunities for more dog owners in watershed canyons would be nice.

Millcreek traffic on weekends needs management! Shuttle?

Introduce wolves.

Better signs for hiking points and trail heads.

Plow guardsmen.

Spread awareness about what is private land and what is not!

Don't sell to the oil companies.

More parking at hiking spots would be nice.

Have some camping spots in campgrounds available on first come basis without a reservation.

Protect more land, teach more about need for environmentalism, and protect animals/nature even more.

Keep being awesome.

Don't allow development/resort homes. Don't allow Ski-link. Please keep it wild. There is enough resort skiing opportunities, and enough resort and permanent housing.

Better signage, going both directions up and down canyon roads.

Stop ski links and all future "mega" plans for the Wasatch.

Accurately rate difficulty of hike. Not all hikes are well marked. Put more information online for easier access.

Keep it as is.

Do not have a good suggestion.

Allow dogs in watershed.

Allow dogs in watershed.

Keep things open and accessible.

Set aside more financing for improvements and protection.

I don't know much about what they actually do. So long as trails are usable, I'm pretty happy.

You're doing great.

Get rid of wolves.

Be nicer to people, not everyone is an idiot.

Alta & snowboarding.

Alta ski resort - allow snowboarders.

Make it harder to get here, hopefully there will be less people that way.

More dog signs, tickets. More bus service - ski bus rules, let's get busses during the summer.

Allow dogs.

Certain hikes need permanent markers and not just cairns. My experience summiting Twin Peaks was miserable due to not knowing the best route to take.

Allow pets in more areas.

Could you add parking?

Allow dogs on this trail.

I think they do a pretty good job, so just keep up the good work.

Nothing, it is perfect. Nothing should be changed.

Nothing needs to be changed.

More public transportation, buses, etc. Too many cars are on the roads.

Allow mountain bikes in wilderness!

Manage traffic and erosion.

Prepare a traffic plan.

Develop, maintain more trails. Better info about accessibility and locations of activities.

It could use another bench.

Arrest those people who use motorized vehicles in wilderness area.

Cut more trails.

Always weigh logic in decision making instead of just going with tradition.

No ski resort expansion, no additional ATV areas, shuttle system or more parking areas.

Excellent trail!

Implement fee on hunting and fishing licenses to cover costs of search and rescue!

I think everything is good.

Nope.

Lessen the voice of the ski industry. Better trail signs. More public transportation. More community outreach. No more development.

Water fountains.

Not really--air pollution is probably my biggest concern.

Provide public transportation in canyons during summer months to limit traffic.

Keep it open.

Do more trading with state agencies so that scenic land can be protected and development can occur on less scenic land.

Keep up the good work.

Science stuff.

Stop Ski-link.

Don't litter.

Please change dog policy and allow dogs. It's more fun with my dogs.

More biking trails. More expert biking trails.

You're doing great! Keep up the good work.

Trail signs or rocks to lead the way.

Protect more land.

All doing a great job. Outside of Salt Lake County better control over off road motorized vehicle use.

Nothing, because the mountains are great and everything is perfect.

More benches, grills, and fire pits.

More options for mixed use--dog friendly canyons.

More dog friendly areas.

Please address the graffiti problem. More parking for LCC trail other than at Temple Quarry--it's oppressively hot there mid-summer. More parking at Secret Lake--or a shuttle?

Open up catch limits on fish to stop stunted growth.

More parking in Mill Creek Canyon, you could eliminate some picnic sites.

Keep up the good work!

More trails in different parts of the mountains. More parking spots, restrooms, and water for public.

More places to take dogs!

Shuttle systems for urban canyon roads.

Ban smoking and people not removing dog poop.

Open more areas for dogs.

Please do bike lanes on road.

Stop site development in BCC & LCC. Millcreek is a mess and I would hate that to happen to the other canyons.

Nothing, it's beautiful.

Nothing, love it.

Bigger, cleaner map and trails.

Table at Silver Lake (on the back side) need some maintenance. East Canyon reservoir needs maintenance as well.

I want a job with the Forest Service.

Inadequate restroom, need facilities longer into season.

People shouldn't be afraid of what One-Wasatch could do. Support One-Wasatch.

Certain trails, more directional signs.

Restrooms open in winter

Restrooms open more.

Fine, fine. B/W public/private lands. Doing a great job.

Make the trails better, including dangers in the area, i.e., animals. Keep the bathrooms open all year.

Try to keep bathrooms open.

Keep it undeveloped.

Keep trails in good shape.

Dog friendly. Recreational access through neighborhoods where appropriate (Deaf Smith).

More considerate of people hiking with pets

Make Big/Little Cottonwood Canyons accessible by bus, bike, or foot only (no personal cars, unless staying overnight at resorts).

Stop catering to ski resorts.

More places for dogs.

Continue to increase trail opportunities, maybe have a volunteer ambassador program.

Leave it the way it is.

Opening/closing gate regularly. Bikers infringe on others. More restrooms open during the winter.

A lot of people don't have dogs on leashes, mixed feelings about dogs.

Really enjoyed the closeness of city and total wilderness protected from development.

No more expansion.

More bike trails in Wasatch Front areas.

Provide more dog places.

No lights in Grizzly Gulch, stop One-Wasatch.

More wilderness, yurts in central Wasatch area.

More information signs, e.g. picking up dog poop & its environmental impact. Sad to see so many dog owners avoiding this duty!

Keep motorized vehicles out.

I'm against One-Wasatch. It is already developed enough; I support wilderness areas and national monument! Less hunting.

Please carefully consider the unique and special undeveloped higher elevation open space we have to recreate in. This is unique and extraordinary, & once it's altered or developed it cannot be replaced. Please consider how many people will be recreating in the central Wasatch in years to come & how important it is to present the undeveloped wild landscape for our children and future generations.

Resources to help educate people on the Do's and Don'ts of using the outdoors, e.g. littering, painting on rocks, destroying vegetation.

Extend the trail and put in a lake to stock a bunch of fish. Also more biking trails.

More garbage cans.

Provide doggie bags.

More off leash areas.

Keep it pristine, no Ski Link.

Educational signage on trails identifying plants and animals in the area.

I would like to know the science behind dog regulations.

Dog signs needs to be more visible.

More trail signs.

Clearer explanation/education on Millcreek leash laws.

More hiking trails that are not open to mountain bikers.

Protect wildlife.

More trails just for mountain bikes.

I would like to see more trails built for mountain biking. Trails that would bypass heavily hiked trails and avoid use conflicts.

More water sources in remote areas (rock canyon has spring fountains up the trails and are a lifesaver).

Have up signs warning people to wear proper hiking shoes (boots) bring water, hat, food. I used to do search and rescue and saw a lot.

Limit dogs to every other day, no dog every day.

More freedom for dog uses, improved parking areas, reduce trail cutting/high wear areas.

Allow more dog access.

Allow more access to dogs.

Enforce less rules on dogs off leash.

Develop shuttle system to canyons. Do not allow ski area expansion. Roll Millcreek only on even days.

No fees for Millcreek, no leash laws, do not allow ATV use.

Better conflict management between hikers and bikers.

Free Alta (allow snowboarders). Fix transportation problem and parking during peak winter months. Stop developing! Keep the wilderness wild!

Leave parking areas open a little longer in fall up to first real snowfall.

Keep the price down on camping.

Its fine but get rid of BLM and let the state take over.

Some trails could use better maintenance & it would be nice to find a place with clear directions to trails. Even some of the apps on phones don't have clear directions

Stop turning the ski resorts areas into amusement parks!

Create a pass or fee for Cottonwood Canyon use.

Cheaper entry passes (Antelope Island). Add more bathrooms. Overpriced for entry, learn from Alaska.

Consider more dog friendly areas.

Added pet opportunities. Continue to add & maintain great trails.

Ban ski resort development. The resorts are fine as they are now.

I support Tread Lightly, please keep our Jeep Trails open.

I think they do a great job and I hope they continue to receive the funding and resources they need. Vote Democrat or Independent. Republicans that want to de-fund and de-regulate everything suck!

More food places.

Limit traffic. Increase shuttle services.

Do not allow commercial development any further!

Force people, including myself, to use public transportation. Close the canyon when it gets too full in winter.

More powder.

More mountain biking access in Alta.

Person doing survey was great and informative.

More trails for mountain biking along Wasatch.

Allow dogs in ALL canyons.

Open more land.

Get more funds

Snow plows! Rail canyons roads.

We are happy.

Stock more fish in the Cottonwood Canyons.

More bathroom areas.

Support One-Wasatch.

Do not stop the uses of personal vehicles.

Be more helpful to hunters.

I don't know enough to ask.

Possibly more signs w/ info on the nature of this area.

More wilderness protection.

Keep it undeveloped--no expansion of ski area, including linking. Transportation opportunities for mass transit.

Open up more permits for more guide services so that there can be more than one guide service to offer climbing/ski trips.

Limit motorized activity—ATV and snowmobiles!

Make more dog friendly areas.

Better management of parking areas Neff's: break-ins and tr****t (?)

Have more education on cost benefits of outdoors.

Consider no commercial uses. Make ski areas allow designated up track in winter.

It's good.

Nothing. Ask for more assistance from the government, i.e., funding.

Keep doing it. Although it would be nice to have a nice natural lake to swim in during the summer. The nearest non-watershed swimming locations is Park City which sucks.... Anything up Little/Big Cottonwood is closed off.

No more heli-skiing!!!

Prevent resort expansion

Promote wilderness areas. Restrict further development.

Minimize encroachment of ski resorts and further development.

Ban helicopters and snowmobiles

Limit development, keep wild places, and increase education about leave-no-trace. Increase campground accessibility.

Work to preserve undeveloped areas.

Less development.

Keep parking at S-curve open ALL year because way too many people park there and it's very dangerous.

Keep it natural.

Glenwild restrooms were locked, why?

Bikers do no respect rules; dog poop.

Keep up the good work by making trails accessible.

I've noticed oily slicks in the water in Bell's Lake. What's up with that?

No more development, esp. ski area expansion. – Increase public transportation opportunities.

Regarding public transportation, if it were fairly quick/inexpensive (as contrast to car cost) / and stopped and picked-up at more obscure areas I would not hesitate using it.

Encourage more volunteer activities to maintain trails.

Make the trails easier by removing rocks.

Let dogs up Big and Little Cottonwood Canyons.

Appendix B: Comments regarding management, protection, and development of the Central Wasatch Mountains

Do you have any additional comments or thoughts about issues regarding the management, protection, or development of the Central Wasatch Mountains?

Keep that shit unrefined.

Need more fish.

No One Wasatch, Ski Link, Alta not allowing snowboarding.

Not really.

It's great to have protected areas that allow such nice trails to exist so close to a major city.

Thank you!

Bathrooms need work

No!

Thank you!

You guys are great

Joggers need to yield to hikers.

Keep protecting them!

Keep them free, open, and clean.

Thank you for what you do.

I think the mountains are awesome and people should complain about less stuff.

Nope, keep protecting nature.

The mountains are beautiful, keep them that way.

Create more dog parks in mountains.

I had a great time. Thanks for keeping it so clean.

I love it up here! I always enjoy coming up here and seeing everything.

Stop One Wasatch!

No permanent transportation corridor between canyons.

Say no to One Wasatch!

Against connecting Alta to other canyons via lifts, etc.

No r/c aircraft drones.

No ski connect.

Keep it wild!!

The bathrooms could use some lights.

I don't want Ski Link to affect wildlife migration, or to ruin the solitude of the back country experience out here. I am really sad about that, over at PCMR/canyons now. I am against ski linking the Wasatch.

The need to make space for people to have dogs off leash without being ticketed. They could even do an every other day to keep erosion factors down due to bikers as well.

Thank you.

I think for the most part it's run really well. Lots of people sharing a very small space. Crowds are inevitable, maybe another family and wheelchair friendly place like Lake Solitude.

Allow dogs.

Keep wonderful, protected, and accessible.

I love this place! I'd like more trails for dogs.

Doing good job.

Less development of ski areas.

No, thank you!

Keep doing a great job! Conservation and use are so important!

Thanks!

No more housing developments. No more ski lifts. There are too many as it is. If more lifts are allowed take out existing ones.

Thanks for keeping this place awesome!

They need to open deer and elk hunting for muzzleloaders or shotguns also.

Please don't build a central tram to connect the ski resorts.

I am always in favor of more conservation over development.

No interconnect.

A weighted approach of conservation over preservation.

Appreciate the mountains and that they have to be regulated to keep them around.

We find these lands to be at a perfect balance now with man and nature. It's time to preserve what we have. Say no to Ski Link.

Happy Big Cottonwood Canyon is pet free.

Dog issues.

No, just keep it safe, clean, and natural.

Protection is priority # 1.

Less development and less useless law enforcement giving tickets.

I hope they stay as protected as they are. It's a part of the magic of SLC/UT, the easy accessibility of the outdoors.

I love the Utah mountains.

1-trail maintenance is important. 2-Don't let picnickers park in hiker designated spots.

Don't stop personal vehicle use. No more ski resort expansion.

Thanks!

We need to educate people better on trails and other etiquette. Crowds get large sometimes and people don't behave well. Lots more people--need.

Thanks--keep it protected. No to Skilink. No to Snowbird development or Roller Coaster over road.

It's very well maintained.

No heli-skiing!

Reserve USA is messing up campgrounds - need better campground management. Less rules about reservations when camp grounds open & close

It's beautiful here! Elliot and Sylvie were very helpful!! Can't wait to come back!

More PT year round.

Thank you.

More patrolling of developed areas.

Ya'll are awesome.

Love the wilderness. Keep up the good work?

No more ski lifts!

Keep it clean.

No more development.

We have been on several hikes that were so poorly marked we never made it to the primary goal. Better signage would be much appreciated!

It would be nice if dogs could go on some of the trails.

Keep ski areas to present boundaries; no Ski Kink; discourage further development in canyons; fix transportation -perhaps buses that stop @ all trailheads

The more underdeveloped, even inaccessible land the better. Some places need to stay wild.

I am glad they are publicly owned and we can use it.

Nope, keep doing a good job.

Keep it wild.

Our wild places are for everyone. Period.

No more development of ski resorts. Better parking. Better winter access.

Would be nice to have an online version to take home.

Great job. Keep it up.

It is critical that I can hike with my dogs off leash in Millcreek Canyon. It's the reason we moved to this area.

I am against most future development in Little Cottonwood Canyon.

Concerned about One Wasatch and its impact on our hiking trails and solitude.

I'd like to see Millcreek turned into a protected watershed--way too much usage as is.

Try to keep out more development.

Beautiful area.

Stop Park City from trying to Link to BCC.

State ran vs. Federal in some areas.

No more development.

Love the wilderness. Very happy we have programs that help keep it accessible and enjoyable for many.

Love the off leash days in Millcreek Canyon.

Thank you for a great job.

Keep and add more trails available for dogs.

We moved from eastern US for the Wasatch.

Trash cans for dog poop.

No One Wasatch!

I really want to maintain the limited development of the canyons and improve public transportation within them.

Limit development from builders and ski areas.

No ski link! Protect forest/wilderness boundaries at all costs.

Tread slowly, if at all with respect to One-Wasatch.

Please keep this area as nice as it is.

I understand they need protection to a degree they need protected from governmental over management. Keep up the good work--just remember people like me enjoyed this area before all the "management" was enacted. Don't turn it into an amusement park.

No Skilink.

Consolidated development, leave mtns beautiful, no homes in wilderness.

Silver Lake was beautiful. Thanks for the opportunity to enjoy it.

Shuttle Busses in busy times.

Keep these trails accessible.

She doesn't like mountain bikers when there are dogs around.

Lovely!

Would not mind paying a fee. It would help keeping the bad elements out. Having security to patrol would help cut down car break-ins. Her car was broken into several times while hiking. Would like more education for people to pick up after their dogs and would like more areas that allow off leash dogs.

Thanks for preserving it for us to enjoy.

Thank you!

Keep up the good work.

Appendix C: Comments by respondents explaining why their out-group encounters positively enhanced their recreational experience

Nice to have peace with outdoors/solitude.

People in the trail are friendly.

Friendly.

Directions, smiling.

Offered directions, positive encouragement.

Friendly.

They waved.

People here are nice and polite.

Other picnickers were friendly, polite.

Someone took our picture.

Smiled, Pleasant.

Happy!

Nice to see people getting out and exercising.

Friendly, visited, made sure everything was OK.

Friendly--dog interaction.

Friendly.

Tips.

Friendly.

Friendly.

Pleasant.

Friendly.

Friendly.

Talk about the beauty of this place.

Photography.

Nice to see dogs in the wilderness.

Cute dogs, friendly faces.

Very nice. Dog lovers.

Talked to fellow dog owners.

Polite.

They had dogs and they were happy.

They were very friendly.

Love meeting new people and their pets.

Met someone else from R.I. Friendly.

Said "hello".

Good trail awareness--good stewards.

They were friendly, reassuring, and just nice.

Friendly.

Because they got to experience in the same beauty I did.

Good folks, good conversation.

They were pleasant, friendly, and so were their dogs.

The one guy was super awesome and told us about a moose.

More mountain bikes. Shared use is more difficult.

Polite happy.

They were quiet/polite.

Friendly.

They were friendly.

Very polite and friendly.

They were cheerful.

I like to see other people using the trails.

Pleasant, share information.

Great to share common interest.

Very friendly.

They were excited to be there.

Most are enjoying nature and respecting it.

Made it more enjoyable.

Nice folks.

I like people.

They were friendly.

Positive people are rad to see.

Wish there were less.

It's great to see families out recreating. Kids & mountains = awesome! One thing I love is how accessible the mountain are to everyone! Awesome!!

Polite.

Polite.

Live over crowded for my taste.

Friendly.

Conversation, took a photo for me.

Helpful.

Friendly.

Encouragement.

General conversation.

Just seeing friendly people is nice.

USU beat BYU, people loved my USU shirt.

They were sweet.

They were very friendly.

They were nice and talked to us.

Not crowded.

Always nice to see smiling faces.

I enjoy visiting other climbers.

Friendly & helpful.

They were friendly, gave directions.

They got out of my way (yielded).

Told me about a moose on the trail to look for.

Pleasant, not scary.

We all chatted about the trail and moose!

Friendly.

Friendly hellos.

Depending on the area, can get over crowded.

Way up there is good.

Kept it jovial. Encouraging.

Psyched!

Trail conditions.

Cared about Wasatch Range protection.

Yes, I love people, as long as they are respectful.

Interacting, learning, advising, & giving directions.

Good company.

No bothers, ha-ha!

They were friendly.

Very positive and nice.

Positive attitudes & friendly.

Friendly & calm.

Most people using the trails are pleasant.

Conversation.

Always a smile and a "hi."

Friendly.

I like seeing a few people.

I only hike on non-peak times to avoid people.

Friendly.

Asked about fishing, pointed out fish.

Everyone was friendly and enjoying the same things.

Taking pictures of people.

People watching, talked to some about fishing.

They were nice.

Friendly.

Friendly locals.

Friendly.

Happy.

Friendly and happy.

All very friendly helpful in pointing out fresh beaver activity.

Very nice people enjoying the outdoors.

Friendly.

Sharing/enjoying nature also.

There weren't very many.

Friendly people.

Friendly.

Would rather not see people.

Visited with them, then all seemed respectful.

Some people didn't carry bags.

Friendly people saying hi.

Friendly.

Friendly, outgoing.

Nice/pleasant/dog talk.

Friendly smile.

Just having fun.

Nice guy, positive vibes.

So many dogs.

Nice people.

Pleasant, discussed hikes, area & shared their map of the area.

One - No; The rest - yes

Hikers are friendly.

People on the trail are always wonderful to encounter. Good to know others are appreciating this canyon.

Friendly people.

Social.

Friendly, conversation, dog interaction.

Nice to see others.

Friendly.

They were friendly and played with our dog.

It was a mellow hike and lovely with quiet hikers.

Just a hello is always nice.

Said hello, and gave a smile.

Friendly.

Friendly people are always a bonus.

Seemed to be enjoying themselves and were generally friendly.

Friendly.

All enjoying ourselves and exercising.

Enjoyable.

Friendly!! Helpful!!

They all have similar interests.

They were very kind.

I enjoy seeing other outdoor enthusiasts.

Friendly people.

They gave me this survey and asked how fishing was.

They were nice.

People were nice.

Nice people.

Positive attitude, smiles.

Hunting, they had bows.

Friendly good vibe.

Community, fun.

Nice people.

Be people.

More fun.

They don't give us a hard time for hunting.

Friendly & talkative.

Just good conversation.

Not a lot of people.

Friendly, talked about dogs.

Good to see other people outside.

Friendly.

Nice smiles.

It's just nice to see people out using these trails.

Friendly experiencing the same kinds of outdoor beauty.

Overall good environment.

Safety in having some people around when in avalanche territory, nice, not too crowded.

Friendly interactions.

Friendly conversation.

Sharing similar passion.

Clearly out enjoying the open space.

Nice greeting, more dog interaction for my pups.

They were happy.

They usually do.

Pleasant & friendly.

Friendly, polite, not trail cutting, not too many.

Say hello, other hikers are usually friendly.

Update on trail conditions.

Some did, some were rude.

Appendix D: Comments by respondents explaining why their out-group encounters negatively affected their recreation experience by location

Location	Comments
Lisa falls	I don't like people in my woods.
	Just nicer to be alone.
	Too many people on trails
Catherine's Pass	Crowded.
	More noise.
	Solitude disrupted.
Albion Meadows	Throwing rocks.
West Gate	I like to be alone, and I'm selfish.
	If they don't like dogs.
Bell's Canyon	Generally too crowded.
	Lady was rude cuz I was hunting.
Mill B South/North	Don't know right of way rules.
	Idiot parks and idiot dog owners.
	People bringing dogs and people double in a handicap parking space.
	Playing music loud while hiking.
	Prefer the solitude.
	Too many people, it doesn't feel like wilderness at all.
Butler Fork	Fast riding.
	I do not enjoy seeing other people.
Silver Lake	Just when they are cussing.
	Loud generators.
	Some were very loud.
	There were two people shooting porn near Silver Lake.
Dogwood	I fish to get away from reality like paper work.
Lake Mary Trail	I prefer hiking and just being alone in nature.
	I would rather be alone up here.
	I'd rather be alone when I'm in the wilderness.
	Too many.
Big/Little Water	I like to be in wilderness without people.
Mill Creek Winter Gate	Dogs.
	Off leash dogs in areas designated as on leash.
	Some dogs off leash.
Terraces/Desolation Trail	Dog off leash, it jumped on me!
	Just a bit, not too much, but I did come here to get away.

Terraces/Desolation Trail	One was carrying a rifle. Lots of dog poop bags.
	Parking challenge.
	Too many for my taste.
	When it gets to be too many.
Mt. Olympus Trail	When hunting you don't want to see people.
24/7	Not really but there needs to be more trail user education.
Armstrong	Dog off leash.
Glenwild	Crowded single-track.
	Doggie poop bags left on trail.

Appendix E: Places and reasons respondents no longer visit

Alta.

Big Cottonwood stream behind Spruces campground. Negative encounter with Watershed.

I tend to stay away from areas where I encounter snowmobiles - Donut Falls.

Millcreek - too much development, too many people. Parts of BCC and LCC, too many kids and parents who don't respect the outdoors.

Spruces campground – overcrowded.

Heli use in LCC.

Mainly commercial ski resorts--too crowded.

People being rude and vulgar because I hunt.

Overcrowding.

Just because you meet morons doesn't mean you don't go back.

Flagstaff Area, upper Days Fork.

Area where I know Wasatch heli is landing.

Crowded places.

Away from road/crowds.

Snowbird on weekends.

North Fork Mill Creek - too many people.

Avoid Saturdays.

Canyons Resort.

Bell's Canyon, Deaf Smith--unpleasant to interact with people in the area.

Bell's, Deaf, Smith Canyon people in the surrounding neighborhood are rude and unaccommodating.

SL Slips, lots of BCC.

The popular classic climbs b/c people are usually on them.

I avoid popular trail when I think it is going to be busy.

Corner Canyon, mountain bikers are very disrespectful to hikers, hunters, horse riders.

Millcreek - too many fast bikes and dogs.

Millcreek - way too many dogs - people as well but the dogs are a nuisance.

Alta: Huge promoter of Wasatch equality.

American Fork, highly populated areas: trash, noise, cars, etc.

Millcreek Canyon - I don't go because of dogs. I hate dog poop on trails, especially on my skins (backcountry ski skins).

Mill Creek—crowded.

I have noticed dogs in watershed areas.

Weekends - Cottonwood - too crowded.

Millcreek - dogs run off leash.

Millcreek, Snow Basin, too many dogs, too many horses, too many bikers

Still use Millcreek and Cottonwood Canyons but try to come at times when fewer people are out.

Multiple places.

Millcreek - too many dogs

Mill Creek Canyon--way too many people and especially dogs.

Ski resorts are overcrowded.

Mill Creek—bikers and dogs overrun!

Skyline Drive. Too many ATVs.

Ski resort areas.

Nowhere where there are motorcycles.

Dog Lake (too crowded). Lillian Lake at S turn (too crowded).

Mineral fork in summer because of ATVs and motorcycles. Some trail heads in Lake Blanche on Holidays and weekends.

Hidden Peak - new structure.

Campsites with loud generators.

Campers w/ loud generators--Ugh!

Yes, but not always. There are places I never go on weekends because they are too crowded-- Donut Falls, Bell's Canyon--and we almost always go anywhere early in the morning.

Bridal Veil Falls.

Snowbird is a zoo.

Silver Lake and Provo River, too many people.

Alta in snow season because no snowboard.

Strawberry.

Most of Big Cottonwood Canyon; way too crowded.

Donut Falls, Lake Blanche, Secret Lake.

Dogs - some bikes

Other areas of Millcreek too crowded and they have leash laws.

Donut Falls - junk show.

Where too many dogs.

Dwls (?) canyon - too many bikes.

Uninta campgrounds - over populated.

Sometimes the picnic sites are just too crowded.

Big and Little Cottonwood Canyons, especially since dogs are not allowed.

Sometimes there are too many people.

ATVs--motorized activity.

Bell's Canyon--Dogs + Litter + Noise (teen groups).

Upper by weten (?) to Dog Lake on main trail.

Hughes Canyon--the trail head has been built over with a house, can no longer access!

Some spots in BCC and Millcreek developed areas.

Boy scouts oblivious of trail etiquette.

I do not ride my bike in Millcreek Canyon because no bike lane. Make it safe.

Tanner's Park Dog Park--too much poop. Ferguson--people giving tickets and harassing.

Millcreek Canyon - Too many people.

Big and Little Cottonwood because of the no dog regulations.

Guardsman's Pass - too many people.

Places with loud off road vehicles, gun fire, and much litter.

Albion Basin - too many people.

Zion.

Busy climbing spots, especially in Big Cottonwood.

Try to avoid areas with motorized vehicles.

Uinta's--too crowded. Zion--too crowded.

Most canyons on the weekend.

Round Valley - dogs off leash; Armstrong trail - dog attacked.

Round Valley - dogs off leash.

Tibble Fork--UT towards 151--over Cascade Springs--it's a zoo.

Timpanogos - rude people, angles landing people.

Crowded places.

Sometimes this site (Glenwild) gets too busy.

Jordanelle res. – crowds.

Millcreek Pipeline trail - too crowded.

Millcreek Canyon--too many unleashed dogs.

Millcreek canyon - Nasty hikers who hate any bike regardless of how slow or cautious you are.

More and more places do not allow dogs.

Some bike trails are no longer good for hiking--too many hostile and pedantic bikers.

Your participation is greatly appreciated, and by participating in this study you are helping in planning for the future of the Central Wasatch Mountains.

The information collected will be useful for the National Forest, Salt Lake City, and Mountain Accord—a multi-phase initiative that seeks to make critical decisions regarding the future of the Central Wasatch Mountains, made up of a collaboration of public and private interests, including state and local governments, federal agencies, and businesses and grassroots organizations.

With a question, when asked, please check (✓) the appropriate box .

3. Are you a resident of the United States?

Yes If Yes, what is your Home Zip Code? _____

No If No, what Country are you from? _____

4. How long are you going to be recreating on this trip?

Short trip under three hours

About half the day

The majority of the day

Overnight

Multiple days – If so, how many? _____ days

5. On this trip, are you planning on visiting any other sites besides this one? Yes No

If Yes, how many other sites are you going to visit? _____ sites

6. On average, how many times per year do you visit the National Forest here in the Central Wasatch Mountains? _____ times per year

7. What types of areas do you use most often when recreating here in the Central Wasatch Mountains?

Developed areas, such as developed campgrounds, picnic areas, ski resorts, etc.

Undeveloped areas, such as trails, dirt roads, rivers and lakes, dispersed camping, wilderness, etc.

I use both developed and undeveloped areas equally.

8. Overall, how satisfied or dissatisfied are you with your visit to the Central Wasatch Mountains today?

Very satisfied

Somewhat satisfied

Neither satisfied or dissatisfied

Somewhat dissatisfied

Very dissatisfied

10. Do you know if you are recreating today in a protected watershed? Yes No

If Yes, how familiar are you with the rules and regulations for recreating in this protected watershed?

Not Familiar			Somewhat Familiar			Very Familiar
1	2	3	4	5	6	7

11. Do you know this National Forest has Congressionally designated Wilderness Areas?

Yes No

If Yes, have you ever recreated in a Congressionally designated Wilderness Area in this National Forest?

Yes No

If Yes, what is the name of the Wilderness Area(s) in which you recreated?

I don't remember the name of the Wilderness Area(s).

What recreation activities do you typically engage in during your visits to Wilderness Areas? (List below)

12. About how many people outside of your group did you encounter (see, talk to, interact with, etc.) while recreating today? _____ people

What do you think about the number of people you encountered while recreating today?

Did they positively enhance your experience? Yes No

If Yes, in what ways? Please describe:

Did they negatively affect your experience? Yes No

If Yes, in what ways? Please describe:

They neither positively enhanced nor negatively affected my experience.

13. Are there places in the Central Wasatch Mountains you no longer visit because encounters with other forest users/uses have negatively affect your recreational experience? Yes No

If Yes, please identify the area(s) and explain the type of encounter and why you no longer visit:

14. How did you access the recreation site you are visiting today? (Check one)

- Personal Vehicle—How many people were in your vehicle TOTAL? _____
- Public Transit (bus, TRAX)
- Private Shuttle
- Biked on my own
- Walked on my own
- Other Please describe: _____

15. What motivated you to recreate TODAY?

	Not Important at All	Somewhat Unimportant	Neither Unimportant nor Important	Somewhat Important	Very Important
Observe scenic beauty	1	2	3	4	5
For the adventure	1	2	3	4	5
Enjoy the sights and smells of nature	1	2	3	4	5
Experience the peace and tranquility	1	2	3	4	5
Because its challenging	1	2	3	4	5
Be with friends enjoying activities	1	2	3	4	5
Improve my physical health	1	2	3	4	5
Get away from crowds	1	2	3	4	5
Develop my skills and abilities	1	2	3	4	5
Do something with family	1	2	3	4	5
Experience solitude	1	2	3	4	5
Learn more about nature	1	2	3	4	5
Let my mind move at a slower pace	1	2	3	4	5
Release tension	1	2	3	4	5
Be unconfined by rules and regulations	1	2	3	4	5
Escape noise, pollution/bad air quality	1	2	3	4	5
Meet new people	1	2	3	4	5

16. If you could choose just one or two words to describe your personal feelings about the Central Wasatch Mountains what would the word(s) be?

17. Are you recreating alone today? Yes No

If No, how many people (total) are in your group? _____ people

Of these, how many are under 16 years of age? _____ people

18. Does anyone in your group have any disabilities? Yes No

If Yes, were the areas and facilities you visited accessible? Yes No

19. Are you a veteran? Yes No

If Yes, where did you see service?

World War II

Korean Conflict

Vietnam War

Iraq War(s)

War in Afghanistan

Are you a wounded or disabled veteran? Yes No

20. Do you consider yourself Hispanic or Latino(a)?

Yes, Hispanic or Latino(a)

No, not Hispanic or Latino(a)

If Yes, would you be willing to participate in a more detailed mail survey or e-mail survey? We are very interested in learning more about the recreational experiences of Hispanics on the National Forest.

Yes No

If Yes, please provide the following information:

Name:

Mailing Address:

E-mail Address:

(please write clearly)

21. With which racial group do you most closely identify?

- American Indian/Alaska Native
- Asian
- Black/African American
- Native Hawaiian or other Pacific Islander
- White

22. In what year were you born? _____

23. What is your sex: Male Female

24. What is the highest level of formal education you have completed?

- Less than a high school degree
- High school degree or GED
- Some college
- 2 year technical or associate degree
- 4 year college degree (BA/BS)
- Advanced degree (e.g., Master's, JD, MD, DO, Ph.D.)

25. Information about income is important because people with different incomes come to Public Lands for different reasons. What is your annual household income?

- Under \$25,000
- \$25,000-\$49,999
- \$50,000-\$74,999
- \$75,000-\$99,999
- \$100,000-\$149,999
- \$150,000 or over
- Don't know

26. We would like to learn more about your recreational experience and your perspectives on planning for the future of the Central Wasatch Mountains.

Would you be willing to participate in a follow-up e-survey, sent to you in a couple weeks after your visit today?

- Yes
- No

If Yes, please provide your first name and e-mail address below:

First Name: _____

E-mail Address: _____

(please write clearly)

Flip page for question 27 and 28

27. If you could ask the U.S. Forest Service and/or other Public Land Management Agencies to change some things about the way they manage the Central Wasatch Mountains, what would you ask them to do?

28. Do you have any additional comments or thoughts about issues regarding the management, protection, or development of the Central Wasatch Mountains?

**Thank you for your time and thoughtfulness
in completing this survey.**

Your participation is greatly appreciated.

**Institute for Outdoor Recreation and Tourism
Utah State University**