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DESCRIBING AND ESTIMATING THE SYSTEM OF VISITOR
DISTRIBUTION IN MOUNT RAINIER NATIONAL PARK

1995 VISITOR DISTRIBUTION SURVEY

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Technical Report NPS/CCSOUW/NRTR-97-07
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Finally, thanks to the observers, particularly those few hardy volunteers, who counted visitors and vehicles in conditions ranging from blazing sun to wind-driven icy rain.

I. BACKGROUND

This study was designed to address information needs identified in 1995 by the Mount Rainier (MORA) General Management Plan (GMP) team. The Visitor Experience and Resource Protection (VERP) planning model had been adopted to guide the MORA planning process. (VERP is a planning process developed by the NPS for addressing the issue of visitor use management and carrying capacity issues within units of the National Park System). The issues of visitor carrying capacity raised in the VERP process ultimately relate not only to visitor densities and perceived crowding at specific sites in the park, but also to relative visitor densities across sites at similar time periods, and the capacities of various components of the developed infrastructure (e.g., parking lots) to absorb various levels of visitor use. Such concerns require conceptualizing the park as a system of visitor opportunities and attractions, and require the gathering of data reflecting use densities at comparable time periods across a wide number of sites. This Visitor Distribution Survey (VDS) is the first time such a visitor-system conceptualization has been used to guide a description of visitor distribution at MORA, and, to our knowledge, is also the first such description of any NPS unit.

It is commonly observed that visitation at MORA varies greatly on a day-to-day basis with a primary determinant being the weather. This fact presented a large obstacle to the design of the VDS. Given the available funds and person-hours it was not feasible to collect data at all sites on enough randomly selected days to accurately characterize the highly variable visitation patterns at those sites. Nonetheless, it was considered crucial to the "system" conceptualization of the park that a large number of sites be surveyed simultaneously. Based on discussions between the UW CPSU researchers and the GMP team, a decision was made to design the VDS so as to survey use at a large number of sites during three four-day periods (Saturday through Tuesday) that were likely to see representative visitation rates. The possibility that rain or other bad weather could decrease visitation on all survey days was recognized, but consensus was reached that such a risk was justified in light of the potential knowledge gaps that could be filled by the VDS. Several conditions affecting visitor use during the survey days are discussed in later sections of this report. However, the weather during the survey periods proved to be a mix of conditions that was roughly similar to that observed through much of a typical summer season.

The first survey period fell on July 8-11. The goals during this period were to both describe use at a time when snow covered many Paradise and Sunrise trails and to test survey procedures and the provisions for food and lodging of survey workers. Fewer sites were observed during the first survey period than in later periods because the more limited data collection reduced costs while adequately addressing the two goals described above. The second and third

survey periods fell on August 12-15 and 25-29. These survey periods provided measures of visitor use during the peak visitation season when snow was not a deterrent to visitors wishing to visit park attractions.

None of the observed sites in the VDS are located in the Carbon River or Mowich Lake areas of MORA. Bridge construction on the road serving the Northwest corner of the park closed the road from 8:00 a.m. to 6:00 p.m. on weekdays throughout the summer of 1995. Based on the limited funds available and the likelihood that even weekend use in that area of the park would be atypical due to the bridge construction in that area, a decision was made to exclude sites in the Northwest corner of the park from the VDS.

In general, the VDS was not intended to measure visitor distribution in wilderness areas of the park not easily accessible to day-hikers. Currently, visitation in those areas of MORA is measured and controlled effectively through a mandatory system of backcountry camping permits. The sites at which visitor counts were made during the VDS were designated by the MORA staff and GMP team and were located predominantly in developed areas of MORA and on trails near to those areas.

In accordance with requests from the GMP team, much of the information in this document has previously been presented in the form of preliminary reports that were discussed in detail during a series of planning meetings. This report is intended to serve as final documentation of the study's methods and as a reference used to access the study's results.

II. HOW TO USE THIS REPORT

Few users of this report will wish to read it through in a systematic manner. Rather, most users will be interested in finding a particular form of information about a particular area or site within the park. Whatever their goals, users of this report will benefit from an awareness that the report is organized around several dimensions, each of which is discussed below.

Categories of sites and types of visitor counts.

The sites within the park fell into four categories: Trail sites; Loops and webs; Parking lots; and Facilities. The only categories not adequately defined by their names are loops and webs, and facilities. Loops and webs consist of one trail or a set of intersecting trails that are accessed via a small set of observed trail sites. By combining the counts made at those sites, the total number of hikers entering and leaving the loop or web can be counted. Facilities are buildings, portions of buildings, or campgrounds. Throughout this report, sites are grouped into these categories.

One of the reasons for differentiating between the site categories concerns the type of counts that were made. At trail sites (and thus at loops and webs) counts were made on a cumulative basis, with the number of visitors entering (and leaving) the trail being counted and recorded at the end of each hourly observation period¹. In contrast, facilities and parking lots were counted using what we called an hourly "snapshot" count. In this "snapshot" method a defined area such as the Jackson Visitor Center lobby was observed at the beginning of each hour and the number of visitors present at that time was recorded. Parking lot counts were also "snapshot" counts, except vehicles, rather than visitors, were counted.

The distinction between the cumulative and "snapshot" counting methods is critically important in understanding the contents of this report. It is not possible to make direct comparisons of the counts collected by these two different methods. For example, the total number of visitors entering and leaving a specific trail site represents the total number of visitors who used that section of trail during the observed hour, but the total number of visitors who used a given facility is not indicated by the "snapshot" count, rather, such a count indicates the number of visitors using the facility at that point in time. Additional data such as the average time that visitors spend in the facility would be required in order to estimate total visitor use of the facility based on the "snapshot" count.

¹ Both the Tipsoo lake trail and the "Dance floor" on the Skyline trails were entirely visible from the observation point and were counted on an hourly "snapshot" basis.

Types of descriptive information available for studied sites.

The majority of this report consists of tables and charts describing visitor use at the studied sites. There are three categories of tables and charts, each of which presents a different type of information. Within each category there may be several sets of data describing a particular site. The categories of information and sets of data found within them are described below:

Actual counts made during the three survey periods.

This first category of information basically consists of the raw data collected during the three survey periods. Thus, it is broken into three sets of data tables that present the counts made for each site during each survey period². In these tables, separate counts are given for the number of visitors going "in" on a trail and the number going "out". In general, the "in" direction was defined as the direction moving away from the nearest roads, facilities, or other developed areas. At some observation points this rule did not supply a clear distinction between the "in" and "out" directions. In these cases an arbitrary decision was made designating the "in" direction. For all observations sites, the maps found at the beginning of the sections describing Survey Period 1 and 2 indicate the direction defined as "in" with an arrow pointing in that direction.

Average weekday and weekend counts.

The second category of information consists of charts showing the average weekday and weekend counts at each site. Thus, these data represent an aggregation of the actual counts presented in the tables described above.

Estimated counts under specified weekday, weather, and traffic conditions.

The final category of information consists of tables showing estimates of various types of visitor counts when certain conditions are present. For example, Table 9.2 estimates total daily entries (between 10:00 and 4:00) for trail sites on weekdays with poor weather, weekdays with nice weather, weekends with poor weather, and weekends with nice weather. Later tables present similar estimates of trail entries+exits, peak-hour trail entries, peak hour trail entries+exits, average hourly "snapshot" counts at facilities and parking lots, peak hourly "snapshot" counts at facilities and parking lots, and finally, peak hourly counts of trail entries (and entries+exits) when the parking lots serving each trail are full.

² Not all sites were observed during all three survey periods. Sites not listed in the table of data for a given survey period were not counted during that period.

Understanding the types of sites and the types of available information describing use at those sites can help readers know what to look for in this report. However, it is also important that readers know *how* to look for a specific piece of information.

Finding information about specific sites.

The most efficient way to search for information about a specific site always starts at the main table of contents. Some searches will then go directly to the page where data are presented. For example, all of the tables presenting estimated counts under specified conditions are listed in the table of contents. Site-by-site listings of all the tables and charts presenting actual counts and average weekday and weekend counts are not, however, presented in the main table of contents. Instead, the main table of contents lists several sub-tables, each of which serves as a guide to the tables or charts presented in a particular section of the report. For example, readers who wanted to know the number of people counted in the Jackson Visitor Center lobby at several times during the second observation period would first turn to the main table of contents and find the section describing Survey Period 2. Under that section they would find the page number for Table 2, a table listing survey sites and page numbers of corresponding tables of actual count data. By turning to Table 2, they could find the Jackson Visitor Center lobby under the facilities section and, alongside it, find their ultimate goal, the page number of the table presenting the counts made at that site.

The tables numbered 1 through 6 are all sub-tables used as guides to site-by-site listings of tables or charts. Table 1 lists the site names and pages where the tables of actual count data from survey period 1 can be found. Likewise, Table 2 and 3 serve as guides to the actual count data from survey periods 2 and 3. Table 4 lists trail sites and the pages where charts presenting average weekday and weekend counts for those sites can be found. Similarly, Table 5, 6, and 7 list the pages where weekday and weekend summary charts can be found for, respectively, loops and webs, parking lots, and facilities. No sub-table is needed for the tables presenting estimated counts under specified conditions because, as noted previously, all those tables are listed in the main table of contents.

Help in understanding specific data tables and charts.

Wherever a new set of tables or charts is introduced in this report, a text box will be found describing the organization of the data presented in them. Readers who find the table or chart that they are interested in but are confused as to how to interpret it should turn back to the beginning of that particular set of tables or charts and look for the boxed text.

Attention to the limitations of the data presented.

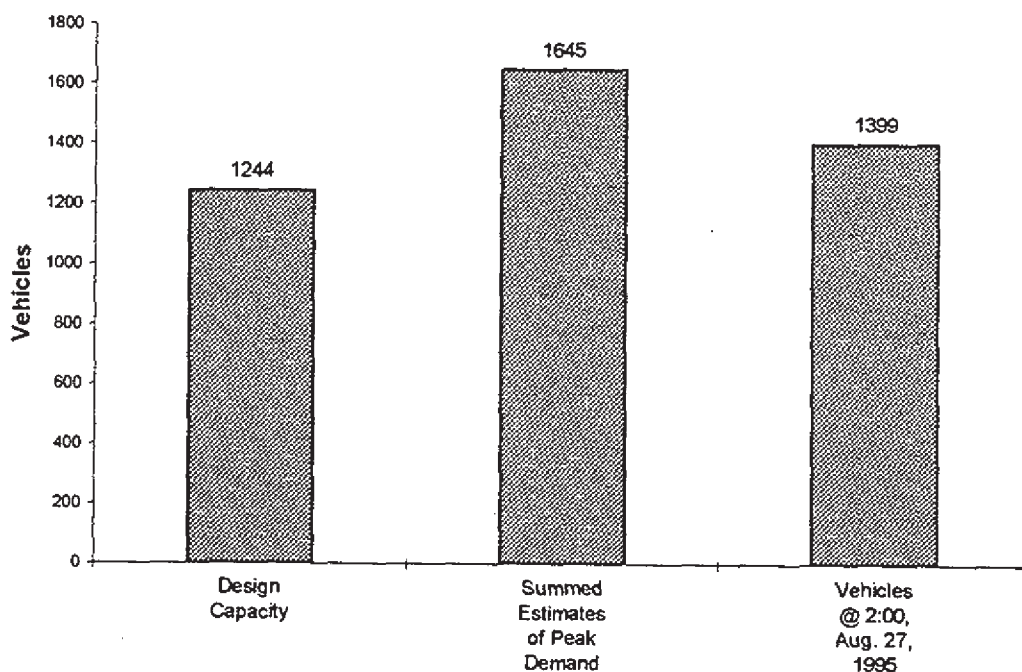
It is very important that the users of this report be aware of the limitations of the data presented. Headings describing limitations can be found in *the General Survey Design* section, in each of the sections describing the three survey periods, and in the section titled *Use Estimates Based on Weather, Day of Week, and Parking Lot Capacity*. Before making inferences based on the data presented in the tables and charts of this report, users should read these sections thoroughly. The data presented in this report should prove extremely useful in a wide range of policy and management decisions but, as with any data, there is always a potential for misinterpretation or unfounded generalization. Understanding the limitations of the VDS and the data that it yielded is essential to the proper use of this report.

III. SURVEY HIGHLIGHTS

Demand for parking exceeds parking lot design capacity on peak days.

One of the most important conclusions of this report is that the existing parking lots are being filled to overflowing on summer weekends with good weather. Estimates of peak parking lot counts for such days are larger than the official design parking capacity for 9 of the 14 parking lots observed (see *Table 9.16*). In fact, the total estimated peak parking demand for the 14 observed lots on summer weekends with good weather was 1645 vehicles, 24 percent greater than the total design capacity of 1244 vehicles (see *Figure 3.1*; Design capacities taken from the BRW Transportation Survey Report). This method of simply adding up the estimated peak demands from all the lots may slightly overestimate the total peak demand because it ignores the fact that in some lots the demand for parking peaks at different times of day. However, the realism of excess demand for parking is supported by actual counts taken during the VDS. For example, at 2:00 on August 27, 1995, a total of 1399 vehicles were counted in the 14 observed lots, a number 11 percent greater than the total design capacity of those lots. There is no reason to believe that such parking demand is atypical. Based on the number of vehicles entering the park, August 27th appears comparable to many weekend days with nice weather.

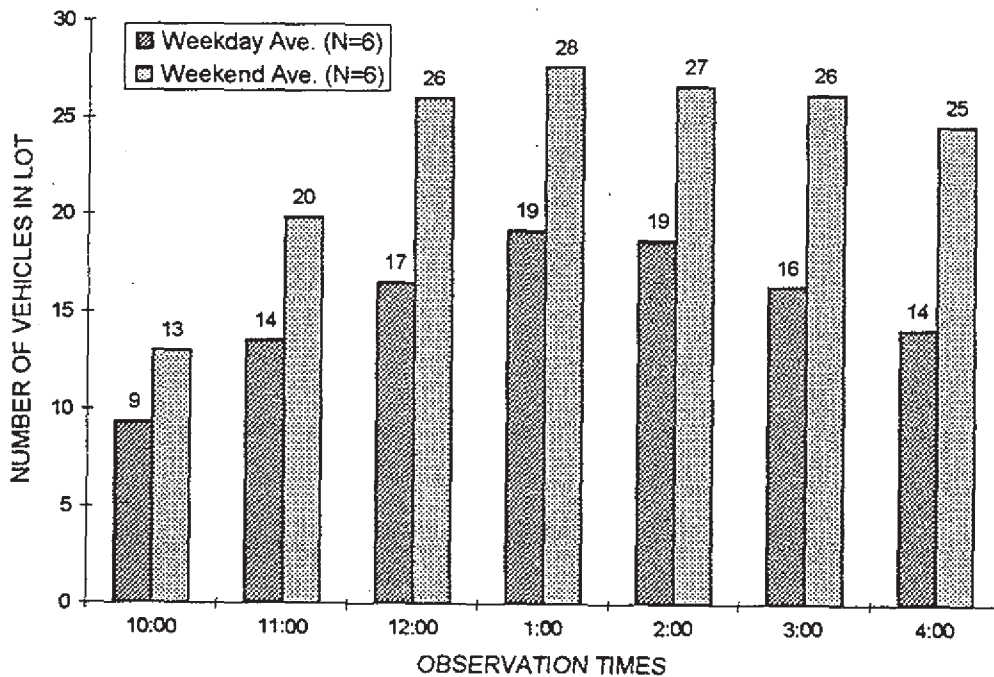
FIGURE 3.1. TOTAL PARKING FIGURES FOR 14 LOTS IN MORA*



*The 14 parking lots observed in the VDS are listed in *Table 6.1*.

Other patterns found in the VDS counts support the argument that demand for parking exceeds that which is available. The figures representing weekend counts at several parking lots show flattened peaks where parking lot capacity has been reached early in the day and the lot remains full for most or all of the remaining observations (see Figure 3.2). Other figures would almost certainly show such patterns but parking was allowed to overflow into unofficial or overflow parking areas and vehicles in those areas were counted and included in the data. This was particularly evident at the Paradise Inn and Sunrise parking lots. Both lots exceeded their official design capacity on four of the six observed weekend days, with maximum peaks 180 and 203 vehicles higher than the respective design capacities of 460 and 240 vehicles. In general, the difference between supply and demand for parking is both large and spread across many of the parking lots in MORA. This fact, coupled with the knowledge that the 14 parking lots observed in the VDS represent the vast majority of parking available in MORA, suggests that if parking is limited to design capacities at Paradise and Sunrise there will be nowhere in MORA for the displaced visitors to find parking.

**FIGURE 3.2: VEHICLES IN COMET FALLS PARKING LOT (SITE 208)
ON OBSERVED WEEKDAYS AND WEEKENDS**

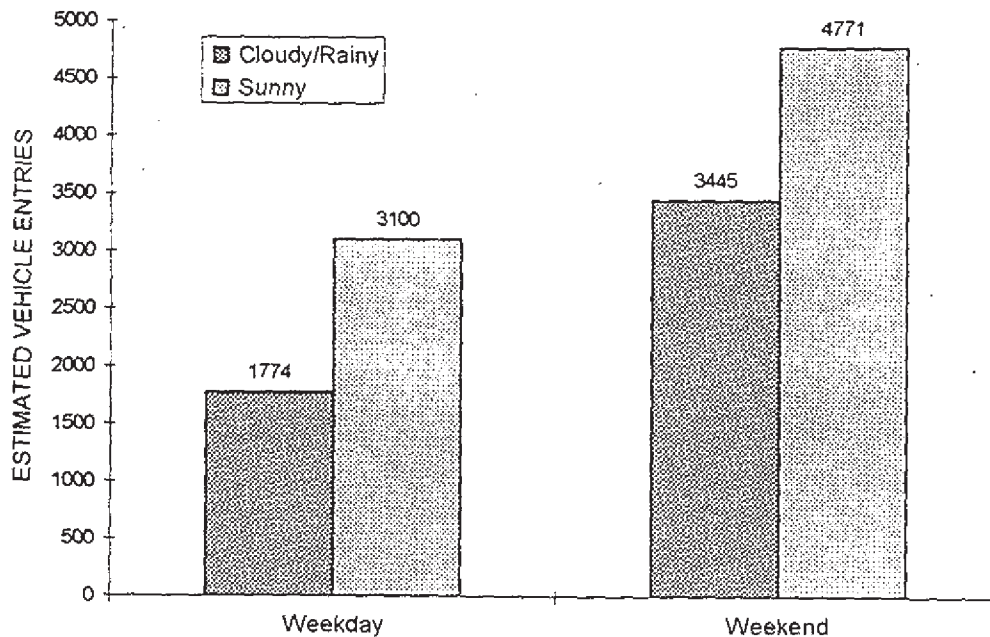


Weather has a powerful influence on visitation.

The VDS represents the first attempt to estimate the quantitative effects of time of day, day of week, and weather on visitation at MORA. Park staff and other observers of the park have long been aware that all of these factors have effects. However, it is important to document the magnitude of the effects in order to accurately assess their impacts on park management.

One of the most striking patterns made clear by the VDS is that visitation is influenced very heavily by weather conditions. The total estimated number of vehicles entering the Nisqually, Stevens Canyon, and White river entrances on summer weekends with poor weather (3445) is 28 percent less than the number that enter on summer weekends with good weather (4771), and the contrast is even greater on weekdays, with poor weather entries (1774) estimated to be 43 percent less than good weather entries (3100). This variability in visitation makes it extremely difficult to predict the number of visitors who are likely to enter the park on any given day and thus complicates the efficient allocation of personnel and other park resources. Future possibilities of visitor transportation systems will also be difficult to design for efficient operation if these patterns continue. Systems that have the capacity to transport all visitors on good weather days will have surplus capacity on poor weather days, and given the fickle nature of weather in the Puget Sound region, prediction of demand (and planned deployment of transportation equipment and staff) will be extremely difficult on anything but a very short-term basis.

FIGURE 3.3: ESTIMATED VEHICLE ENTRIES BASED ON WEATHER AND WEEKDAY/WEEKEND



Visitation peaks in mid-to-late afternoon.

Time of day also has an important effect on visitation that is also visible in the VDS results. Peak visitor counts across the park are consistent with the hypothesis that many visitors arrive at the park in late morning or mid-day and then make their way to Paradise or Sunrise by late afternoon, causing visitation in those areas to peak around 3:00 in the afternoon. This pattern is particularly evident for weekends but is also evident in the weekday data (see section *VIII. Summary Data Across All Survey Periods*). Because of this visitation pattern, future visitor distribution research would benefit by extending the counting period beyond the 4:00 cutoff time used in the VDS. A review of the present data makes it clear that at many sites, large numbers of visitors were still present at 4:00 and that the unmeasured rate at which they leave may be important for some management decisions.

The effects of time of day and weather are probably closely related. Although some visitors who have firm plans to visit MORA may not reach the park until the afternoon hours, it is likely that many of the visitors in the afternoon visitation peak made a decision to visit the park that was based largely on that morning's weather. Data from a mail survey conducted in conjunction with the VDS are consistent with this idea. They show that about a quarter of MORA visitors make their decision to visit either the day before, or on the morning of their trip.

IV. GENERAL SURVEY DESIGN

Data were collected in the VDS during three four-day periods in the summer of 1995. The first survey period was July 8 - 11, the second was August 12 - 15, and the third was August 26 - 29. The first survey period served to describe use at a time when snow was still present on many Paradise and Sunrise trails and also to provide an opportunity for pre-testing the logistics of the survey. The second and third survey periods provided measures of visitor use during the peak visitation season when most or all visitor attractions were free of snow.

Survey work-force.

Data were collected (i.e., counts were made), by crews of observers most of whom camped in the park during the survey periods. Initial plans were to deploy a half-and-half mix of volunteers and paid observers so as to minimize costs while maintaining a measure of control not afforded by an entirely volunteer work-force. However, despite considerable efforts on the part of the fieldwork coordinator, it proved extremely difficult to recruit and retain volunteers. Thus, most observers were recruited and paid from project funds.

In addition to the observers and the project manager, four data collection supervisors were hired to oversee the survey. Supervisors were responsible for training survey workers, transporting them from camp to observation sites and back, periodically checking on survey workers to observe data collection procedures and provide short breaks, checking data for miscodings or other problems, and overseeing meals and other camp activities. The responsibilities of the data collection supervisors are illustrated by the copy of the information packet given to them and used as a guide in the observer orientation meetings (see Appendix A).

Data collection.

Data were recorded on the hour between 10:00 a.m. and 4:00 p.m. on survey days. Counts of visitors were collected at trail sites and in a variety of facilities while counts of vehicles were collected at parking lots. The specific sites at which counts were made are described at the beginning of the sections describing each survey period.

Two different types of counts were made. On trails, a cumulative count of the number of visitors entering the trail (as well as a count of those leaving the trail)

was kept and recorded at the end of each hourly observation period.¹ In contrast, facilities and parking lots were counted using what we called an hourly "snapshot" count. In this "snapshot" method a defined area (e.g., the Jackson Visitor Center lobby, or the Kautz Creek parking lot) was observed at the beginning of each hour and the number of visitors or vehicles present at that time was recorded. The distinction between the cumulative and "snapshot" counting methods is critically important in understanding the contents of this report. It is not possible to make direct comparisons of the counts collected by these two different methods.

Survey workers were given specific rules to insure that visitors were counted in the same ways at all sites. At all trail sites, separate cumulative counts were made of visitors entering the trail and leaving the trail. In general, the direction considered "in" was the direction moving away from roads or developed areas. However, in some cases the rule could not be clearly applied and an arbitrary decision was used to define "in". The direction counted as "in" at each trail site is indicated by an arrow on the site maps used later in this report.

During the second and third survey periods, separate counts of backpacker entrances and exits were made at the same time as the count of all visitors passing trail sites (backpackers were included in the general visitor counts). For these counts backpackers were defined as hikers who had sleeping bags or mats visible on their packs, or whose packs were as large as those needed for overnight trips.

The counts of vehicles in parking lots were broken down into five categories:

1. Cars etc. - Cars were defined as all vehicles (except motorcycles and govt. vehicles) that could fit in a standard parking space. Vehicles such as pick-ups carrying a camper or van-sized campers were counted as cars.
2. RVs - Any vehicle (except buses and govt. vehicles) that could not fit in a standard parking space were counted as RVs.
3. Buses - Commercial and school buses were counted.
4. Govt. Vehicles - Any vehicles with official government license plates were counted.
5. Motorcycles - Motorcycles were counted.

¹ Both the Tipsoo lake trail and the "Dance floor" on the Skyline trails were entirely visible from the observation point and were counted on an hourly "snapshot" basis.

Along with the hourly counts of visitors and vehicles, data were collected describing the weather conditions at the observation sites. The codes used to describe weather conditions were:

1. - Sunny and warm
2. - Sunny and cold
3. - Cloudy and warm
4. - Cloudy and cold
5. - Light rain
6. - Heavy rain
7. - Fog
8. - Snow, sleet, or hail
9. - Missing

Wind conditions were also recorded as a simple dichotomous code with 1 = Wind and 0 = No wind. All weather and wind codes were intended to provide general measures of the desirability of the atmospheric conditions when observations were made.

Survey workers recorded visitor counts (and in survey period 3, weather data) on data sheets that were collected at the end of each observation day. Space was provided on each sheet for a tally to be taken and for hourly summary figures to be recorded. Survey workers assigned to large parking lots or busy facilities were provided with clickers to facilitate the accurate counting of vehicles or visitors. Some survey workers simultaneously counted visitors passing multiple observation sites. For example, many survey workers located at trail forks would count (on separate data sheets) the number of visitors entering and leaving each fork.

Limitations of the survey.

The primary limitation of the VDS is the small number of days during which sites were observed. In an ideal world of unlimited time and money, a much larger, randomly selected number of days would be used to characterize use patterns at each site. However, within the existing constraints, attempts were made to select days that were representative of common patterns of visitor use.

The sample is particularly limited in describing the difference between use in early July versus mid and late August. Only one four day survey period was conducted in July and not all sites were observed at that time. Therefore, presentations of data within this report do not focus on comparisons of the early and late survey periods.

One aspect of the VDS procedures that proved to be more limiting than expected was the decision to stop counting at 4:00 on all survey days. The data from many sites show that visitation peaks quite late in the afternoon and has only begun to tail off at 4:00. It is not clear how quickly the number of visitors present at those sites drops after that time.

In order to provide a qualitative assessment of the degree to which the observed days represent normal visitation patterns, attempts were made to note where unusual conditions might influence visitation patterns. Several circumstances may have affected visitation patterns at MORA across all survey periods in the summer of 1995. These include: Road construction on Highway 410 North of the park boundary that caused delays of 30 to 90 minutes on weekdays; Bridge construction on the road serving the Northwest corner of MORA that closed the road from 8:00 a.m. to 6:00 p.m. on weekdays; Closure of sections of the Skyline Trail in Paradise Meadows (see maps of observation sites in the later sections of this report describing each survey period); and a higher than normal number of cool rainy days in July and August. Although these effects were duly noted, it is not possible to quantitatively estimate the extent that these effects may have influenced the magnitude or pattern of the data collected during the VDS. When reviewing this report, readers should be aware that without further data collection, the probability that the specific patterns and magnitude of visitation found by this project will carry through into future years can not be assessed.

Caution should also be taken in any analysis of these data based on site-specific changes in weather. Because the weather data in survey periods 1 and 2 were reconstructed from supervisor notes they are not comparable to those recorded in survey period 3. Thus, any evidence for (or against) changes in visitor distribution due to micro-climatic variations can not be based on the sum of the present data and could be considered only suggestive if based on only the data from survey period 3.

In addition the general limitations described in this section, specific limitations are described later in this report where they are relevant to presentations of data in tables or charts. When using the data in any particular section readers should keep in mind the general limitations described above and also read the specific limitations relevant to the data of interest.

V. SURVEY PERIOD 1: JULY 8 - 11

The goals during the first survey period were to both describe use at a time when snow covered many Paradise and Sunrise trails and to test survey procedures and the provisions for food and lodging of survey workers. Fewer sites were observed during the first survey period than in later periods because the more limited data collection reduced costs while adequately addressing the two goals described above.

Survey work-force.

During the first survey period a crew of 28 observers collected data at 36 sites. Observers were organized into three groups. The first (and largest) group camped at Cougar Rock Campground and collected data at sites located primarily between Cougar Rock and Reflection Lakes. The second group camped at White River Campground and collected data at sites located on the East side of the park, primarily in the Sunrise area. The third group of five survey workers consisted primarily of friends or relatives of park employees. These workers did not camp at the park. They collected data at sites between the Nisqually entrance and Longmire with most sites in the Longmire area. One member of this group (all were paid observers) was found sleeping on two occasions and the crew generally failed to take their tasks seriously. The effect of the crew's attitude on the data they collected is unknown. Smaller, less systematic problems in data collection are noted next to the appropriate tables of results shown below.

Surveyed sites.

The 36 survey sites included 23 trail sites, 8 parking lots, and 5 facilities. Table 5.1 shows the site names as well as the codes used to identify them in the database. It also serves as a table of contents useful in finding specific tables of visitor use data.

**Table 5.1: Survey sites and page numbers of corresponding data tables
(Survey Period 1).**

TRAIL SITES

101. WESTSIDE ROAD	23
102. BEGINNING OF THE TRAIL OF THE SHADOWS	24
104. RAMPART RIDGE TRAIL AT JUNCTION OF TRAIL OF SHADOWS	25
105. RAMPART RIDGE AT JUNCTION OF WONDERLAND TO PARADISE	26
106. WONDERLAND TRAIL TO PARADISE AT JUNCTION OF RAMPART RIDGE	27
107. EAGLE PEAK TRAIL	28
108. COMET FALLS TRAIL	29
109. DEAD HORSE TRAIL AT JUNCTION OF NISQUALLY VISTA	30
110. NISQUALLY VISTA LOOP AT JUNCTION OF DEAD HORSE TRAIL	31
111. BEGINNING OF ALTA VISTA TRAIL	32
112. SKYLINE AT JUNCTION OF TRAIL TO DEAD HORSE	33
113. TRAIL TO DEAD HORSE AT JUNCTION OF SKYLINE	34
114. LAKES TRAIL	35
115. TRAIL ACROSS FROM PARKING LOT AT GROVE OF PATRIARCHS	36
116. GROVE OF THE PATRIARCHS	37
117. RIM TRAIL AT RIM/EMMONS JUNCTION	38
118. EMMONS VISTA TRAIL AT RIM/EMMONS JUNCTION	39
119. OTHER END OF RIM TRAIL AT JUNCTION OF PET LOOP TRAIL	40
120. PET LOOP TRAIL	41
121. NATURE TRAIL AT SUNRISE	42
123. NARADA FALLS TRAIL	43
124. PET LOOP TRAIL AT JUNCTION WITH RIM TRAIL	44
125. TRAIL CLOSE TO PARADISE INN	45

LOOPS AND WEBS

PARADISE UPPER WEB	52
RAMPART RIDGE AND BEYOND	52
SUNRISE RIM TRAIL LOOP	52
TRAIL OF THE SHADOWS LOOP	53

PARKING LOTS

201. KAUTZ CREEK PARKING LOT	56
202. LONGMIRE PARKING LOT	57
203. NARADA FALLS PARKING LOT	58
204. JACKSON VISITOR CENTER PARKING LOT	60
205. PARADISE INN PARKING LOT	61
206. GROVE OF THE PATRIARCHS PARKING LOT	62

207. SUNRISE PARKING LOT	64
208. COMET FALLS PARKING LOT	65

FACILITIES

301. LONGMIRE MUSEUM	68
302. JACKSON VISITOR CENTER LOBBY (PARADISE)	69
303. JACKSON VISITOR CENTER EATING AREA (PARADISE)	70
304. JACKSON VISITOR CENTER SLIDE SHOW (PARADISE)	71
305. JACKSON VISITOR CENTER OBSERVATION DECK (PARADISE)	72
306. SUNRISE VISITOR CENTER	73

Maps of survey sites. (Survey Period 1).

Figures 5.1 to 5.3 show the location of the trail sites with arrows indicating the direction that was defined as "entering" the trail.

Figure 5.1: Surveyed trail sites near Longmire (Survey Period 1).

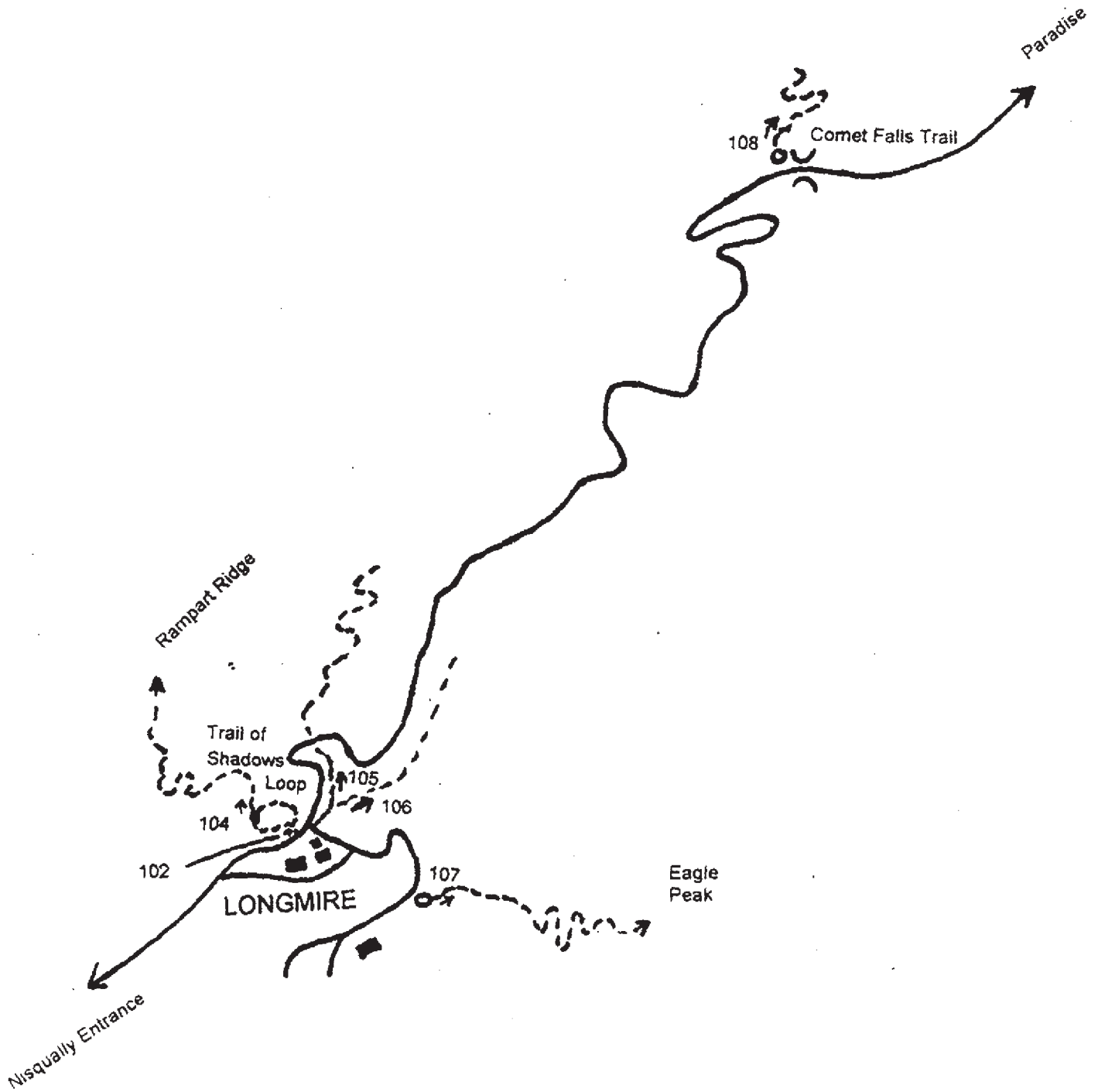
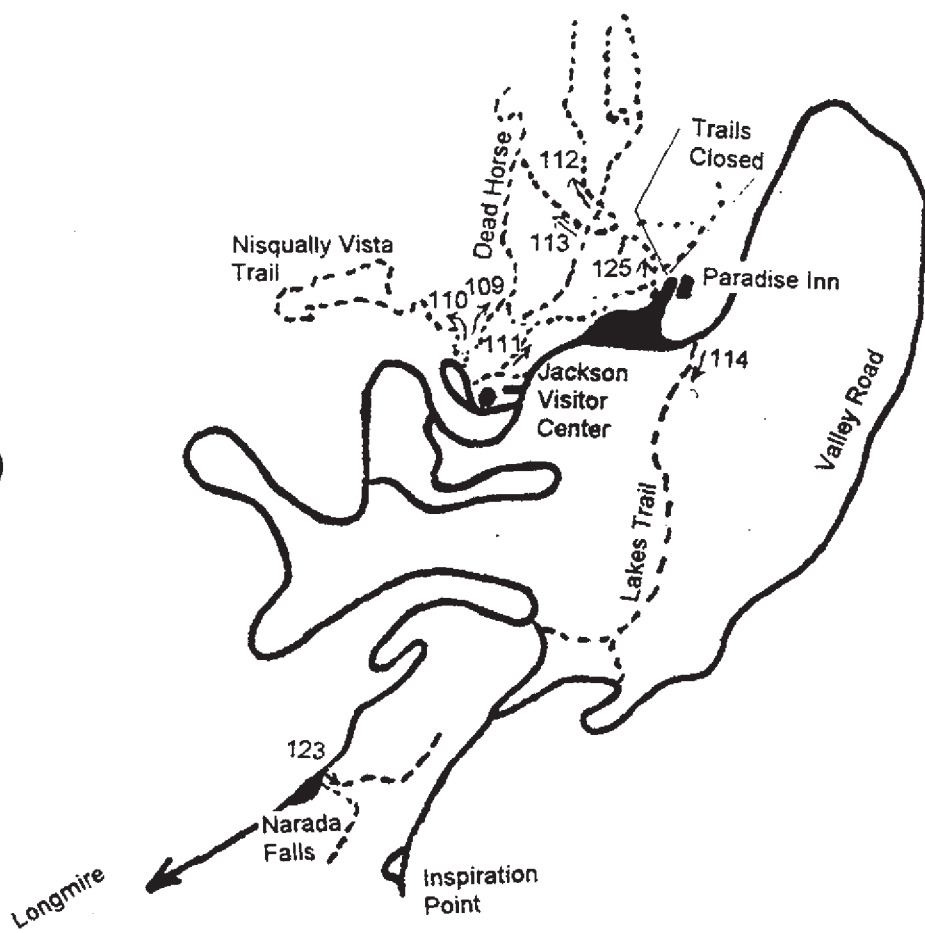


Figure 5.2: Surveyed trail sites near Paradise (Survey Period 1).



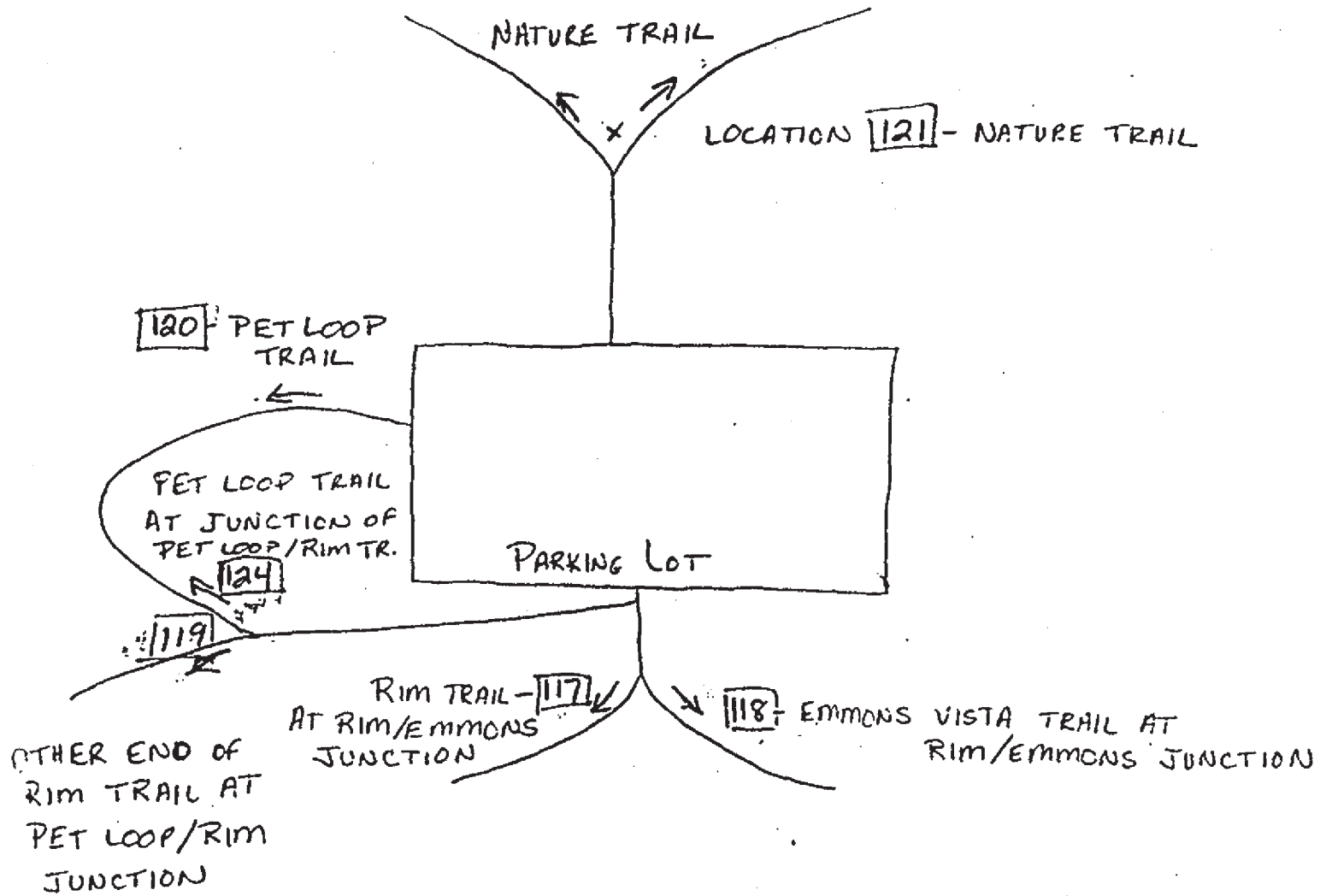


Figure 5.3: Surveyed trail sites near Sunrise (Survey Period 1).

Limitations of the data collected during the first survey period.

In addition to the general survey limitations discussed in the *General Survey Design* section, observers traveling to the White River Campground noticed that the sign at the intersection of Highways 7 and 12 said that Sunrise was closed. Also, on the afternoon of July 9 many areas of the park were hit by a storm with heavy rain and high winds. Many survey workers were forced to seek shelter and thus an unusually high number of counts are missing for that afternoon. The storm also forced many visitors to seek shelter, decreasing those trail counts that were made and greatly increasing visitor counts in facilities.

Data collected: Trail sites.

The visitor use data for trail sites are presented below in pairs of tables. For each trail site, the upper table shows the cumulative counts of all visitors entering and leaving during each observed hour and the lower table shows the weather conditions that were present during data collection.¹ Notes are included below some tables to explain anomalies in the data or data collection process.

¹ In this survey period weather data at all sites were based on supervisor notes and not recorded directly by observers.

Interpreting Data Tables From Survey Period 1: Trail Sites

In the pairs of tables that follow, the first table is laid out in 8 columns of 6 numbers. Each number represents the number of visitors passing a defined point on a trail while moving in a specified direction (either "in" or "out" on the trail) during one hour of a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken and the direction of travel.

If I wished to know the number of visitors hiking North on the Westside road between 11:00 and 12:00 on July 11 I would first look at the labels above the Westside road table to find the two columns of data representing the 11th. I know that the Northward direction on the Westside road moves away from the parking lot and other developed facilities and can therefore conclude that it is defined as the "in" direction. However, if I have any confusion about the direction defined as "in" I can refer to the site maps in Figures 5.1 to 5.3, find the Westside road observation site and observe the arrow showing which direction is defined as "in". In this case, Northward is the "in" direction, so I move down that column to the line labeled "11 to 12" on the left and find that 5 visitors passed the observation site going North during the hour of interest.

If I wished to know the weather at the observation site during the hour when those 5 visitors passed, I could move to the next table, find the column of data under the 11th labeled "weather" and find the weather codes "4" recorded at 11:00 and "1" recorded at 12:00. Looking at the code list below the table I conclude that it was cloudy and cold at the beginning of the hour and became sunny and warm by the end.

Westside Road/101

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	18	0	7	0	0	3	1	2
11 to 12	2	3	0	0	1	0	5	0
12 to 1	0	15	0	12	1	0	0	7
1 to 2	14	2	3	3	1	1	0	0
2 to 3	0	8	3	0	2	0	0	3
3 to 4	5	6	1	0	2	2	1	0

Westside Road/101

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	1	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

BEGINNING OF THE TRAIL OF SHADOWS/102

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	32	0	18	10	10	1	21	9
11 to 12	23	22	14	7	23	11	13	12
12 to 1	45	4	0	4	31	7	3	2
1 to 2	18	19	23	8	27	15	16	4
2 to 3	14	9	32	12	7	0	40	23
3 to 4	36	24	2	13	8	18	19	20

Beginning of the Trail of Shadows/102

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

RAMPART RIDGE TRAIL AT JUNCTION OF TRAIL OF SHADOWS/104

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	5	0	3	0	0	0	6	0
11 to 12	9	0	0	0	4	0	0	6
12 to 1	2	1	0	0	9	0	0	0
1 to 2	6	4	0	2	6	4	4	10
2 to 3	5	0	3	3	6	0	13	3
3 to 4	5	11	1	2	1	4	4	11

Rampart Ridge Trail at Junction of Trail of Shadows/104

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

RAMPART RIDGE AT JUNCTION OF WONDERLAND TO PARADISE/105

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	3	1	1	0	3	1	0	2
11 to 12	0	1	17	6	2	1	4	0
12 to 1	4	5	2	2	4	0	6	2
1 to 2	0	2	5	0	1	0	0	4
2 to 3	2	6	1	2	0	3	11	2
3 to 4	4	7	0	2	5	4	2	3

Rampart Ridge at junction of Wonderland to Paradise/105

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

WONDERLAND TRAIL TO PARADISE AT JUNCTION OF RAMPART RIDGE/106

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	1	1	6	2	3	2	2	0
11 to 12	0	0	11	8	7	2	0	0
12 to 1	4	2	0	5	0	5	4	4
1 to 2	0	6	0	0	2	7	0	2
2 to 3	9	0	0	3	2	0	6	0
3 to 4	7	0	1	2	0	2	0	4

Wonderland Trail to Paradise at junction of Rampart Ridge/106

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

EAGLE PEAK TRAIL/107

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	4	0	6	0	0	0	2	2
11 to 12	8	0	0	0	2	0	0	0
12 to 1	4	0	1	4	2	2	0	0
1 to 2	4	0	0	0	0	0	0	2
2 to 3	3	4	1	2	0	0	0	2
3 to 4	4	4	0	2	0	0	0	0

Eagle Peak Trail/107

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Comet Falls Trail/108

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	17	8	15	2	9	2	15	0
11 to 12	34	3	12	11	4	0	9	0
12 to 1	38	17	3	20	21	3	11	9
1 to 2	29	9	11	18	10	20	19	12
2 to 3	9	34	1	11	9	13	10	21
3 to 4	26	25	5	0	11	4	29	8

Comet Falls Trail/108

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	5	0	5	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Dead Horse Trail at junction of Nisqually vista/109

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	2	5	3	0	3	1	2	0
11 to 12	17	5	0	1	16	0	11	0
12 to 1	0	0	.	.	7	9	14	0
1 to 2	1	0	.	.	0	0	21	7
2 to 3	0	0	.	.	7	1	6	3
3 to 4	2	3	.	.	14	8	6	13

Dead Horse Trail at junction of Nisqually vista/109

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	4	0	4	0
12:00	4	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data are missing because of bad weather.

NISQUALLY VISTA LOOP AT JUNCTION OF DEAD HORSE TRAIL/110

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	28	23	5	2	29	14	13	12
11 to 12	41	35	6	8	23	33	17	16
12 to 1	38	42	16	12	43	24	15	20
1 to 2	73	56	.	.	27	58	28	12
2 to 3	78	69	.	.	20	17	72	49
3 to 4	94	86	.	.	59	24	48	58

Nisqually Vista loop at junction of Dead Horse trail/110

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data are missing because of bad weather.

Beginning of Alta Vista Trail/111

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	27	3	0	2	18	9	28	17
11 to 12	25	21	31	6	0	9	17	13
12 to 1	24	24	2	18	25	13	20	38
1 to 2	51	69	.	.	8	30	35	38
2 to 3	103	106	.	.	35	41	58	50
3 to 4	65	163	.	.	57	38	29	60

Beginning of Alta Vista Trail/111

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data are missing because of bad weather.

Skyline at junction of Trail to Dead Horse/112

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	118	16	107	14	106	9	88	5
11 to 12	72	54	43	56	115	89	45	14
12 to 1	119	47	.	.	76	31	65	32
1 to 2	227	130	.	.	93	63	107	85
2 to 3	195	280	66	46	176	83	117	82
3 to 4	179	206	51	79	75	147	71	84

Skyline at junction of Trail to Dead Horse/112

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data are missing because of bad weather.

Trail to Dead Horse at junction of Skyline/113

Visitors passing observation site.

DAY		

11		

	IN	OUT

TIME		
10 to 11	4	6
11 to 12	30	3
12 to 1	29	38
1 to 2	44	23
2 to 3	24	33
3 to 4	11	48

Trail to Dead Horse at junction of Skyline/113

Weather and wind conditions at observation site.

DAY		

11		

	WEATHER	WIND

Time		
11:00	4	0
12:00	4	0
1:00	1	0
2:00	1	0
3:00	1	0
4:00	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Due to Supervisor error, this site was not counted until the last day.

Lakes Trail/114

Visitors passing observation site.

TIME	DAY			
	8		9	
	IN	OUT	IN	OUT
10 to 11	3	3	2	2
11 to 12	3	3	7	6
12 to 1	4	2	0	3
1 to 2	5	4	.	.
2 to 3	2	2	.	.
3 to 4	0	9	.	.

Lakes Trail/114

Weather and wind conditions at observation site.

Time	DAY			
	8		9	
	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0
12:00	3	0	5	0
1:00	3	0	6	0
2:00	3	0	5	0
3:00	3	0	5	0
4:00	3	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data are missing on the 9th because of bad weather.

Data are missing on the 10th and 11th because of a staff shortage.

Trail across from parking lot at Grove of Patriarchs/115

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	5	2	0	0	0
11 to 12	2	0	6	5	0	17	2	2
12 to 1	9	9	6	1	2	5	2	2
1 to 2	3	7	3	3	8	0	7	3
2 to 3	25	2	1	0	5	0	8	16
3 to 4	7	29	11	5	0	0	5	1

Trail across from parking lot at Grove of Patriarchs/115

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	2	0	4	0
12:00	4	0	5	0	2	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	6	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Grove of the Patriarchs/116

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	21	16	60	17	7	0	36	15
11 to 12	48	25	10	56	28	8	23	35
12 to 1	45	42	42	19	46	31	29	25
1 to 2	45	47	22	42	33	43	8	23
2 to 3	47	65	21	33	34	34	30	8
3 to 4	93	61	16	15	23	16	25	31

Grove of the Patriarchs/116

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	2	0	4	0
12:00	4	0	5	0	2	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	6	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rim Trail at Rim/Emmons junction/117

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	1	0	2	2	2	2
11 to 12	9	0	0	0	2	0	10	12
12 to 1	9	5	0	0	4	4	7	2
1 to 2	14	15	5	0	12	6	18	3
2 to 3	6	10	17	1	7	4	5	4
3 to 4	6	7	7	14	6	11	6	3

Rim Trail at Rim/Emmons junction/117

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Emmons vista trail at Rim/Emmons junction/118

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	4	1	5	5	2	2	0	0
11 to 12	0	0	2	0	14	14	19	4
12 to 1	17	6	0	2	6	0	0	0
1 to 2	3	2	4	4	0	3	13	15
2 to 3	6	3	12	12	3	0	2	10
3 to 4	2	4	14	0	0	0	15	12

Emmons vista trail at Rim/Emmons junction/118

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Other end of Rim trail at junction of Pet Loop trail/119

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	8	0	0	12	0	0	0	0
11 to 12	0	2	0	0	0	0	0	0
12 to 1	9	0	1	3	1	2	1	0
1 to 2	0	2	3	1	0	0	2	2
2 to 3	4	12	3	13	0	0	0	12
3 to 4	2	20	0	12	0	14	3	16

Other end of Rim trail at junction of Pet Loop trail/119

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Pet Loop Trail/120

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	2	0	7	1	0	4	0	0
2 to 3	0	3	0	3	0	0	0	0
3 to 4	0	10	0	0	0	0	0	0

Pet Loop Trail at Sunrise/120

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Nature Trail at Sunrise/121

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	19	15	7	2	10	1	6	0
11 to 12	54	7	2	5	8	1	11	5
12 to 1	39	27	4	7	15	7	52	4
1 to 2	58	48	8	6	32	14	30	31
2 to 3	112	55	24	13	28	21	19	32
3 to 4	63	88	19	12	6	15	8	21

Nature Trail at Sunrise/121

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Narada Falls trail/123

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	60	52	40	41	43	55	68	72
11 to 12	70	75	60	70	65	53	82	94
12 to 1	126	108	78	77	164	183	106	93
1 to 2	148	135	55	75	113	109	103	108
2 to 3	265	240	151	184	143	143	90	89
3 to 4	145	205	170	129	132	154	116	143

Narada Falls trail/123

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	4	0	4	0
12:00	4	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Pet Loop Trail at junction with Rim Trail/124

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	2	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	1	2	0	7	4	0	0	0
2 to 3	15	2	3	0	0	2	0	0
3 to 4	0	0	0	0	0	0	0	0

Pet Loop trail at junction with Rim Trail/124

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail close to Paradise Inn/125

Visitors passing observation site.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	87	14	65	6	77	6	74	24
11 to 12	35	44	20	20	37	31	60	24
12 to 1	51	21	5	38	39	25	8	59
1 to 2	113	81	.	.	95	35	116	71
2 to 3	134	194	20	14	75	59	67	67
3 to 4	103	141	24	41	24	62	34	71

Trail close to Paradise Inn/125

Weather and wind conditions at observation site.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	5	0	4	0	4	0
12:00	4	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data are missing because of bad weather.

Data collected: Loops and Webs.

There are many trails at MORA that loop back or intersect in ways that create what we call loops and webs. Loops consist of trails where most or all use consists of visitors entering a trail at one site and exiting at another. Visitors may enter the trail from either site, but nearly all users of the trail are expected to enter or leave at the two defined sites. For example, Trail of the Shadows at Longmire is considered a loop trail. Similarly, webs consist of trails that may intersect many times but are accessed almost exclusively by a defined set of entrance/exit points. In survey period 1, the only web was the Paradise Upper Web which consisted of trails in Paradise Meadow accessed via five observed trails. Figures 5.4 to 5.6 show the three loops and one web observed in survey period 1.

Figure 5.4: Sites included in Paradise Upper Web (Survey Period 1).

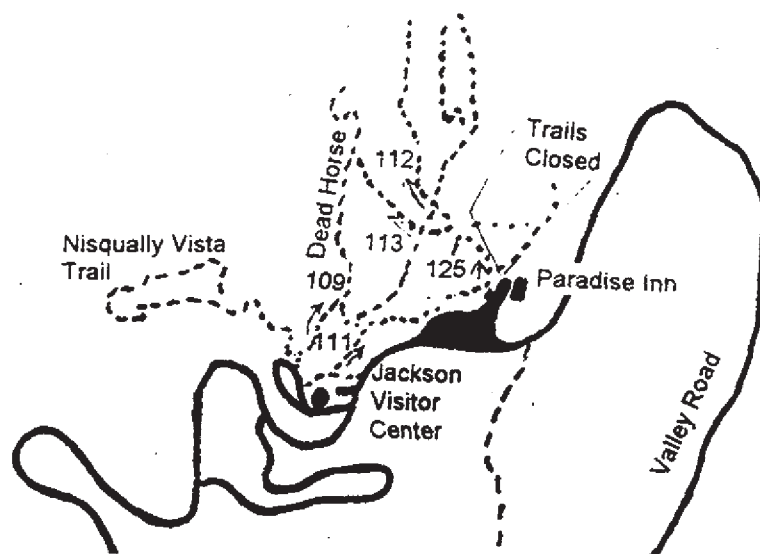


Figure 5.5: Sites included in Trail of the Shadows Loop [#104 out and #102 in] and Rampart Ridge Loop [#104 in and #105 in] (Survey Period 1).

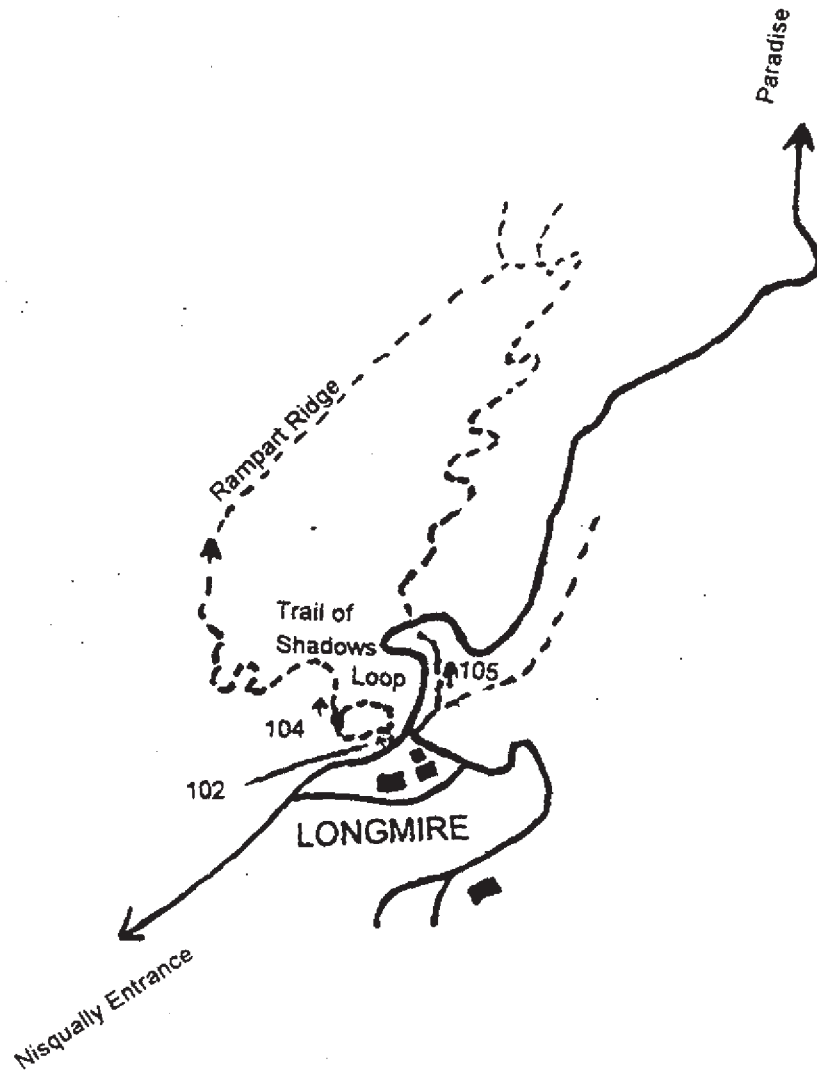
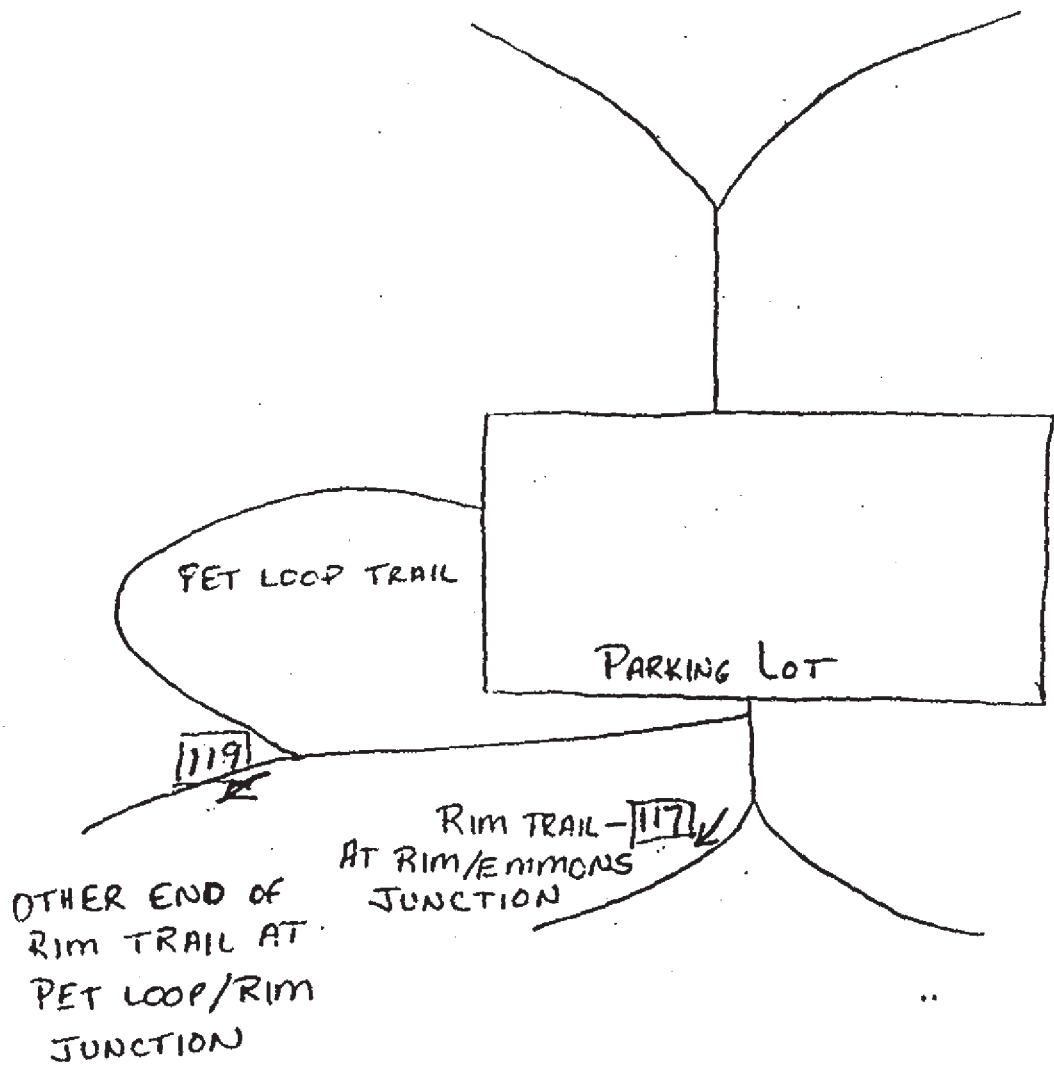


Figure 5.6: Sites included in the Sunrise Rim Trail Loop (Survey Period 1).



Visitor use data for loops and webs are presented in tables below. Data represent the total number of visitors entering and leaving each loop or web via the defined access points.

**Interpreting Data Tables From Survey Period 1:
Loops and Webs**

Each table below is laid out in 8 columns of 6 numbers. Each number represents the number of visitors entering or leaving a loop or web during one hour of a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken and the direction of travel.

If I wished to know the number of visitors entering the Paradise Upper Web between 11:00 and 12:00 on July 11 I would first look at the labels above the Paradise Upper Web table to find the two columns of data representing the 11th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 163 visitors entered the web during the hour of interest.

Recall that all the observation points defining each loop or web are listed above and shown on the maps in Figures 5.4 to 5.6.

Paradise upper web.

Visitors entering loop/web.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	234	38	175	22	204	25	196	52
11 to 12	149	124	94	83	168	129	163	54
12 to 1	194	92	7	56	147	78	136	167
1 to 2	392	280	.	.	196	128	323	224
2 to 3	432	580	86	60	293	184	272	235
3 to 4	349	513	75	120	170	255	151	276

Rampart Ridge Loop and beyond.

Visitors entering loop/web.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	8	1	4	0	3	1	6	2
11 to 12	9	1	17	6	6	1	4	6
12 to 1	6	6	2	2	13	0	6	2
1 to 2	6	6	5	2	7	4	4	14
2 to 3	7	6	4	5	6	3	24	5
3 to 4	9	18	1	4	6	8	6	14

Sunrise Rim Trail Loop.

Visitors entering loop/web.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	8	0	1	12	2	2	2	2
11 to 12	9	2	0	0	2	0	10	12
12 to 1	18	5	1	3	5	6	8	2
1 to 2	14	17	8	1	12	6	20	5
2 to 3	10	22	20	14	7	4	5	16
3 to 4	8	27	7	26	6	25	9	19

Trail of the Shadows Loop.

Visitors entering loop/web.

TIME	DAY							
	8		9		10		11	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	32	5	18	13	10	1	21	15
11 to 12	23	31	14	7	23	15	19	12
12 to 1	46	6	0	4	31	16	3	2
1 to 2	22	25	25	8	31	21	26	8
2 to 3	14	14	35	15	7	6	43	36
3 to 4	47	29	4	14	12	19	30	24

Data collected: Parking lots.

The visitor use data for parking lots are presented below in sets of three tables. For each parking lot, the first table shows the number of cars present at each time indicated. The second table (consisting of two parts) shows the number of vehicle subtypes present at each time. Finally, the third table shows the weather conditions that were present during data collection.

**Interpreting Data Tables From Survey Period 1:
Parking Lots**

In each set of three tables that follow, the first table is laid out in 4 columns of 7 numbers. Each number represents the number of vehicles parked in a defined parking lot² at a particular time on a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken.

If I wished to know the number of vehicles in the Kautz Creek parking lot at 11:00 on July 10 I would first look at the labels above the first Kautz Creek table to find the column of data representing the 10th. I would then move down that column to the line labeled "11:00" on the left and find that 3 vehicles were present at the time of interest.

If I wished to know whether any of the 3 vehicles present at that time were buses I would look at the labels above the second Kautz Creek table to find the 6 columns of data representing the 10th. I would then find the column labeled "Buses" move down that column to the line labeled "11:00" on the left and find that 1 bus was present at the time of interest.

Finally, if I wished to know the weather at the observation site at the time when the bus was present, I could move to the third table, find the column of data under the 10th labeled "weather" and find the weather code "4" recorded at 11:00 indicating that it was cloudy and cold at the time when the observation was made.

² Counts for the following parking lots included vehicles parked in contiguous overflow parking areas: Paradise Inn (along the valley road to turnout at curve), Sunrise Lodge (gravel overflow parking area), and Comet Falls (edges of road).

Kautz Creek Parking Lot/201

Total vehicles in lot

Time	DAY			
	8	9	10	11
	10:00	5	4	3	5
11:00	2	9	3	6
12:00	9	4	4	8
1:00	8	0	3	12
2:00	18	0	2	8
3:00	12	1	16	10
4:00	9	0	12	5

Types of vehicles counted: Site 201

Time	DAY											
	8						9					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	5	0	0	0	0	5	3	0	0	1	0	4
11:00	2	0	0	0	0	2	7	0	0	2	0	9
12:00	9	0	0	0	0	9	4	0	0	0	0	4
1:00	8	0	0	0	0	8	0	0	0	0	0	0
2:00	17	0	0	1	0	18	0	0	0	0	0	0
3:00	12	0	0	0	0	12	1	0	0	0	0	1
4:00	9	0	0	0	0	9	0	0	0	0	0	0

(continued)

Types of vehicles counted: Site 201

Time	DAY											
	10						11					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	3	0	0	0	0	3	5	0	0	0	0	5
11:00	2	0	1	0	0	3	6	0	0	0	0	6
12:00	4	0	0	0	0	4	8	0	0	0	0	8
1:00	3	0	0	0	0	3	12	0	0	0	0	12
2:00	2	0	0	0	0	2	8	0	0	0	0	8
3:00	15	1	0	0	0	16	10	0	0	0	0	10
4:00	10	1	0	0	1	12	5	0	0	0	0	5

Weather Conditions: Site 201

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	6	0	5	0	4	0	4	0
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	1	0	6	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Longmire Parking Lot/202

Total vehicles in lot

Time	DAY			
	8	9	10	11
	10:00	59	57	40	50
11:00	57	67	43	51
12:00	63	47	56	45
1:00	75	58	62	70
2:00	87	67	71	63
3:00	65	64	70	69
4:00	79	62	64	63

Types of vehicles counted: Site 202

Time	DAY											
	8						9					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	56	3	0	0	0	59	47	0	0	10	0	57
11:00	57	0	0	0	0	57	57	0	1	9	0	67
12:00	62	1	0	0	0	63	38	0	0	8	1	47
1:00	75	0	0	0	0	75	48	0	0	9	1	58
2:00	87	0	0	0	0	87	57	0	0	9	1	67
3:00	64	1	0	0	0	65	54	1	1	8	0	64
4:00	78	1	0	0	0	79	53	0	0	9	0	62

(continued)

Types of vehicles counted: Site 202

Time	DAY											
	10						11					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	39	0	0	0	1	40	45	0	0	5	0	50
11:00	42	0	0	0	1	43	50	1	0	0	0	51
12:00	54	0	1	0	1	56	44	1	0	0	0	45
1:00	60	1	0	0	1	62	69	1	0	0	0	70
2:00	68	2	0	0	1	71	61	0	0	2	0	63
3:00	69	0	0	0	1	70	68	0	0	1	0	69
4:00	63	0	0	0	1	64	62	1	0	0	0	63

Weather Conditions: Site 202

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	6	0	5	0	4	0	4	0
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	1	0	6	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Narada Falls Parking Lot/203

Total vehicles in lot

Time	DAY			
	8	9	10	11
10:00	3	8	15	16
11:00	15	10	12	25
12:00	20	10	4	18
1:00	26	5	21	25
2:00	31	27	16	25
3:00	37	32	10	28
4:00	31	14	24	.

Types of vehicles counted: Site 203

DAY												
8						9						
Time	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	3	0	0	0	0	3	6	0	0	0	2	8
11:00	15	0	0	0	0	15	10	0	0	0	0	10
12:00	20	0	0	0	0	20	9	1	0	0	0	10
1:00	24	2	0	0	0	26	5	0	0	0	0	5
2:00	31	0	0	0	0	31	27	0	0	0	0	27
3:00	36	1	0	0	0	37	32	0	0	0	0	32
4:00	31	0	0	0	0	31	14	0	0	0	0	14

(continued)

Types of vehicles counted: Site 203

DAY												
10						11						
Time	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	13	0	0	0	2	15	14	0	2	0	0	16
11:00	12	0	0	0	0	12	24	1	0	0	0	25
12:00	4	0	0	0	0	4	17	0	0	0	1	18
1:00	19	1	1	0	0	21	24	1	0	0	0	25
2:00	16	0	0	0	0	16	23	1	0	0	1	25
3:00	10	0	0	0	0	10	28	0	0	0	0	28
4:00	24	0	0	0	0	24	.	.	.	.	.	.

Weather Conditions: Site 203

DAY									
8		9		10		11			
WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND		
Time									
10:00	5	0	5	0	4	0	4	0	
11:00	4	0	5	0	4	0	4	0	
12:00	3	0	5	0	4	0	4	0	
1:00	3	0	6	0	1	0	1	0	
2:00	3	0	5	0	1	0	1	0	
3:00	3	0	5	0	1	0	1	0	
4:00	3	0	5	0	1	0	1	0	

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Parking Lot/204

Total vehicles in lot

Time	DAY			
	8	9	10	11
	10:00	68	61	56	69
11:00	105	94	73	81
12:00	121	114	97	126
1:00	142	149	104	123
2:00	144	143	114	139
3:00	145	145	120	143
4:00	146	123	124	133

Types of vehicles counted: Site 204

Time	DAY											
	8						9					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	65	0	0	3	0	68	58	0	1	2	0	61
11:00	104	0	0	1	0	105	89	1	0	4	0	94
12:00	117	1	0	2	1	121	110	1	0	3	0	114
1:00	136	1	0	4	1	142	146	0	0	3	0	149
2:00	141	0	0	3	0	144	140	0	0	3	0	143
3:00	143	0	0	1	1	145	141	0	0	4	0	145
4:00	145	0	0	1	0	146	121	0	0	2	0	123

(continued)

Types of vehicles counted: Site 204

Time	DAY											
	10						11					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	51	0	0	5	0	56	63	0	1	5	0	69
11:00	70	0	0	3	0	73	76	0	1	4	0	81
12:00	93	0	0	4	0	97	117	1	2	5	1	126
1:00	100	0	0	4	0	104	118	0	0	5	0	123
2:00	110	0	0	4	0	114	134	0	1	4	0	139
3:00	116	0	0	4	0	120	138	0	0	5	0	143
4:00	120	1	0	3	0	124	127	0	0	5	1	133

Weather Conditions: Site 204

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	0	4	0	4	0
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Paradise Inn Parking Lot/205

Total vehicles in lot

Time	DAY			
	8	9	10	11
	10:00	255	234	147	169
11:00	255	232	161	173
12:00	296	256	178	216
1:00	372	260	205	256
2:00	420	236	250	294
3:00	434	205	246	268
4:00	429	156	211	236

Types of vehicles counted: Site 205

Time	DAY											
	8						9					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	252	2	0	1	0	255	229	3	0	0	2	234
11:00	251	4	0	0	0	255	229	3	0	0	0	232
12:00	289	6	0	1	0	296	249	4	2	0	1	256
1:00	362	3	4	3	0	372	252	4	3	0	1	260
2:00	404	4	2	3	7	420	227	6	2	0	1	236
3:00	422	5	2	3	2	434	200	4	0	0	1	205
4:00	418	8	0	1	2	429	151	4	0	0	1	156

(continued)

Types of vehicles counted: Site 205

Time	DAY											
	10					11						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	145	0	0	2	0	147	165	2	0	2	0	169
11:00	157	1	1	1	1	161	165	5	0	2	1	173
12:00	170	3	1	3	1	178	204	10	0	2	0	216
1:00	198	3	2	2	0	205	237	13	4	2	0	256
2:00	241	5	2	2	0	250	279	12	2	1	0	294
3:00	238	6	0	2	0	246	255	11	0	1	1	268
4:00	204	4	1	2	0	211	228	4	0	2	2	236

Weather Conditions: Site 205

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	0	4	0	4	0
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	1	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Grove of the Patriarchs Parking Lot/206

Total vehicles in lot

Time	DAY			
	8	9	10	11
	10:00	11	9	0	6
11:00	11	18	6	14
12:00	25	12	9	19
1:00	24	19	19	13
2:00	23	13	11	7
3:00	17	16	14	15
4:00	28	10	10	12

Types of vehicles counted: Site 206

DAY												
8						9						
Time	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	11	0	0	0	0	11	7	2	0	0	0	9
11:00	11	0	0	0	0	11	17	1	0	0	0	18
12:00	25	0	0	0	0	25	11	1	0	0	0	12
1:00	24	0	0	0	0	24	18	1	0	0	0	19
2:00	23	0	0	0	0	23	13	0	0	0	0	13
3:00	17	0	0	0	0	17	15	1	0	0	0	16
4:00	27	1	0	0	0	28	9	1	0	0	0	10

(continued)

Types of vehicles counted: Site 206

DAY												
10						11						
Time	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	0	0	0	0	0	0	6	0	0	0	0	6
11:00	6	0	0	0	0	6	14	0	0	0	0	14
12:00	9	0	0	0	0	9	19	0	0	0	0	19
1:00	19	0	0	0	0	19	13	0	0	0	0	13
2:00	11	0	0	0	0	11	7	0	0	0	0	7
3:00	12	1	1	0	0	14	15	0	0	0	0	15
4:00	10	0	0	0	0	10	12	0	0	0	0	12

Weather Conditions: Site 206

DAY									
8		9		10		11			
WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND		
Time									
10:00	4	0	5	0	2	0	4	0	
11:00	4	0	5	0	2	0	4	0	
12:00	4	0	5	0	2	0	4	0	
1:00	3	0	6	0	1	0	1	0	
2:00	3	0	5	0	1	0	1	0	
3:00	3	0	5	0	1	0	1	0	
4:00	3	0	5	0	1	0	1	0	

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Parking Lot/207

Total vehicles in lot

Time	DAY			
	8	9	10	11
	10:00	44	47	22	42
11:00	77	72	38	50
12:00	99	81	64	72
1:00	142	67	76	106
2:00	153	60	80	99
3:00	163	50	74	89
4:00	146	29	64	69

Types of vehicles counted: Site 207

Time	DAY											
	8						9					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	43	0	0	1	0	44	46	0	0	1	0	47
11:00	76	0	0	1	0	77	70	1	0	1	0	72
12:00	96	0	0	1	2	99	78	1	1	1	0	81
1:00	132	0	0	1	9	142	66	0	0	1	0	67
2:00	151	0	0	1	1	153	58	1	0	1	0	60
3:00	162	0	0	1	0	163	49	0	0	1	0	50
4:00	145	0	0	1	0	146	28	0	0	1	0	29

(continued)

Types of vehicles counted: Site 207

Time	DAY											
	10						11					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	21	0	0	1	0	22	36	1	0	5	0	42
11:00	37	0	0	1	0	38	45	1	0	4	0	50
12:00	61	1	0	2	0	64	68	1	0	3	0	72
1:00	72	1	1	2	0	76	100	3	0	3	0	106
2:00	77	1	0	2	0	80	97	0	0	2	0	99
3:00	71	0	0	3	0	74	86	0	0	3	0	89
4:00	61	0	0	3	0	64	67	0	0	2	0	69

Weather Conditions: Site 207

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	1	4	0	4	0
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Comet Falls Parking Lot/208

Total vehicles in lot

Time	DAY		
	9	10	11
	10:00	8	6	9
11:00	16	8	13
12:00	18	10	17
1:00	17	21	18
2:00	11	14	14
3:00	9	14	10
4:00	8	15	14

Types of vehicles counted: Site 208

Time	DAY											
	9						10					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	8	0	0	0	0	8	6	0	0	0	0	6
11:00	16	0	0	0	0	16	8	0	0	0	0	8
12:00	18	0	0	0	0	18	10	0	0	0	0	10
1:00	17	0	0	0	0	17	21	0	0	0	0	21
2:00	11	0	0	0	0	11	14	0	0	0	0	14
3:00	9	0	0	0	0	9	14	0	0	0	0	14
4:00	8	0	0	0	0	8	15	0	0	0	0	15

(continued)

Types of vehicles counted: Site 208

DAY						
11						
	Cars	RVs	Buses	Govt.	MCycle	Total
Time						
10:00	8	0	0	1	0	9
11:00	12	0	0	1	0	13
12:00	16	0	0	1	0	17
1:00	18	0	0	0	0	18
2:00	14	0	0	0	0	14
3:00	9	1	0	0	0	10
4:00	14	0	0	0	0	14

Weather Conditions: Site 208

DAY						
9 10 11						
	9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
Time						
10:00	5	0	4	0	4	0
11:00	5	0	4	0	4	0
12:00	6	0	1	0	4	0
1:00	6	0	1	0	1	0
2:00	5	0	1	0	1	0
3:00	5	0	1	0	1	0
4:00	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data collected: Facilities.

The visitor use data for facilities are presented below in pairs of tables. For each facility, the upper table shows the number of visitors present at each time indicated and the lower shows the weather conditions that were present during data collection.

**Interpreting Data Tables From Survey Period 1:
Facilities**

In each pair of tables that follow, the first table is laid out in 4 columns of 7 numbers. Each number represents the number of visitors present in a facility or specified sub-section of a facility at a particular time on a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken.

If I wished to know the number of visitors in the Longmire Museum at 11:00 on July 10 I would first look at the labels above the first Longmire Museum table to find the column of data representing the 10th. I would then move down that column to the line labeled "11:00" on the left and find that 2 visitors were present at the time of interest.

If I wished to know the weather at the observation site at the time when those 2 visitors were present, I could move to the second table, find the column of data under the 10th labeled "weather" and find the weather code "4" recorded at 11:00 indicating that it was cloudy and cold at the time when the observation was made.

Longmire Museum/301

Visitors in observed facility.

Time	DAY			
	8	9	10	11
10:00	18	2	1	2
11:00	12	11	2	6
12:00	11	2	4	2
1:00	17	5	3	4
2:00	10	6	3	8
3:00	3	13	4	10
4:00	8	8	7	6

Longmire Museum/301

Weather and wind conditions outside observed facility.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	6	0	5	0	4	0	4	0
11:00	6	0	5	0	4	0	4	0
12:00	5	0	6	0	1	0	4	0
1:00	1	0	6	0	1	0	1	0
2:00	1	0	5	0	1	0	1	0
3:00	1	0	5	0	1	0	1	0
4:00	1	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Lobby/302

Visitors in observed facility.

Time	DAY			
	8	9	10	11
10:00	10	18	17	8
11:00	27	28	22	16
12:00	28	22	30	27
1:00	43	60	28	25
2:00	49	64	25	42
3:00	55	37	35	40
4:00	34	38	26	40

Jackson Visitor Center Lobby/302

Weather and wind conditions outside observed facility.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	0	4	0	4	0
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Eating Area/303

Visitors in observed facility.

Time	DAY			
	8	9	10	11
10:00	2	14	2	3
11:00	19	20	9	14
12:00	39	50	29	30
1:00	57	115	77	77
2:00	44	132	42	46
3:00	75	52	37	30
4:00	83	34	27	36

Jackson Visitor Center Eating Area/303

Weather and wind conditions outside observed facility.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	0	4	0	4	0
11:00	4	0	5	0	4	0	4	0
12:00	3	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Slide Show/304

Visitors in observed facility.

Time	DAY			
	8	9	10	11
10:00	21	26	10	0
11:00	17	30	23	2
12:00	0	19	21	11
1:00	14	80	7	26
2:00	20	28	6	9
3:00	32	28	18	42
4:00	44	26	17	17

Jackson Visitor Center Slide Show/304

Weather and wind conditions outside observed facility.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	0	4	0	4	0
11:00	4	0	5	0	4	0	4	0
12:00	4	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Observation Deck/305

Visitors in observed facility.

Time	DAY			
	8	9	10	11
10:00	4	11	9	8
11:00	7	19	10	3
12:00	12	17	12	11
1:00	14	30	7	12
2:00	31	38	16	32
3:00	28	27	12	18
4:00	47	24	31	34

Jackson Visitor Center Observation Deck/305

Weather and wind conditions outside observed facility.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	0	4	0	4	0
11:00	4	0	5	0	4	0	4	0
12:00	4	0	5	0	4	0	4	0
1:00	3	0	6	0	1	0	1	0
2:00	3	0	5	0	1	0	1	0
3:00	3	0	5	0	1	0	1	0
4:00	3	0	5	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Visitor Center/306

Visitors in observed facility.

Time	DAY			
	8	9	10	11
10:00	6	3	1	7
11:00	30	38	5	1
12:00	38	43	7	16
1:00	23	17	14	25
2:00	40	23	14	16
3:00	30	11	7	5
4:00	18	2	15	16

Sunrise Visitor Center/306

Weather and wind conditions outside observed facility.

Time	DAY							
	8		9		10		11	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	5	1	4	0	4	0
11:00	5	0	5	1	4	0	4	0
12:00	5	0	5	1	4	0	4	0
1:00	3	0	6	0	4	0	3	0
2:00	3	0	6	0	4	0	3	0
3:00	3	0	4	0	8	0	3	0
4:00	3	0	4	0	8	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

VI. SURVEY PERIOD 2: AUGUST 12 - 15

Survey work-force.

During the second survey period a crew of 43 observers collected data at 72 sites. Observers were organized into four groups. The first (and largest) group camped at Cougar Rock Campground and collected data at sites located primarily between Cougar Rock and Reflection Lakes. The second group camped at White River Campground and collected data at sites located in the Northeast quadrant of the park, primarily in the Sunrise area. The third group of five survey workers consisted primarily of friends or relatives of park employees. These workers did not camp at the park. They collected data at sites between the Nisqually entrance and Longmire with most sites in the Longmire area. Finally, the fourth group camped at Ohanapecosh Campground and collected data at sites located in the Southeast quadrant of the park.

Surveyed sites.

The 72 survey sites included 48 trail sites, 14 parking lots, and 10 facilities. Table 6.1 shows the site names as well as the codes used to identify them in the database. It also serves as a table of contents useful in finding specific tables of visitor use data.

**Table 6.1: Survey sites and page numbers of corresponding data tables
(Survey Period 2).**

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101. WESTSIDE ROAD.....	91
102. BEGINNING OF THE TRAIL OF THE SHADOWS.....	92
104. RAMPART RIDGE TRAIL AT JUNCTION OF TRAIL OF SHADOWS.....	93
105. RAMPART RIDGE AT JUNCTION OF WONDERLAND TO PARADISE.....	94
106. WONDERLAND TR. TO PARADISE AT JUNCT. OF RAMPART RIDGE ..	95
107. EAGLE PEAK TRAIL.....	96
108. COMET FALLS TRAIL.....	97
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112. SKYLINE AT JUNCTION OF TRAIL TO DEAD HORSE.....	101
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136. REFLECTION LAKES TRAIL (WEST)/WONDERLAND TRAIL JUNCT...	121
137. WONDERLAND TRAIL/REFLECTION LAKES (WEST) JUNCTION.....	122
138. REFLECTION LAKES (EAST)/WONDERLAND TRAIL JUNCTION.....	123
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Maps of survey sites. (Survey Period 2 [and 3]).

Figures 6.1 to 6.9 show the location of the trail sites with arrows indicating the direction that was defined as "entering" the trail.

Figure 6.1: Surveyed trail sites near Longmire (Survey Periods 2 & 3).

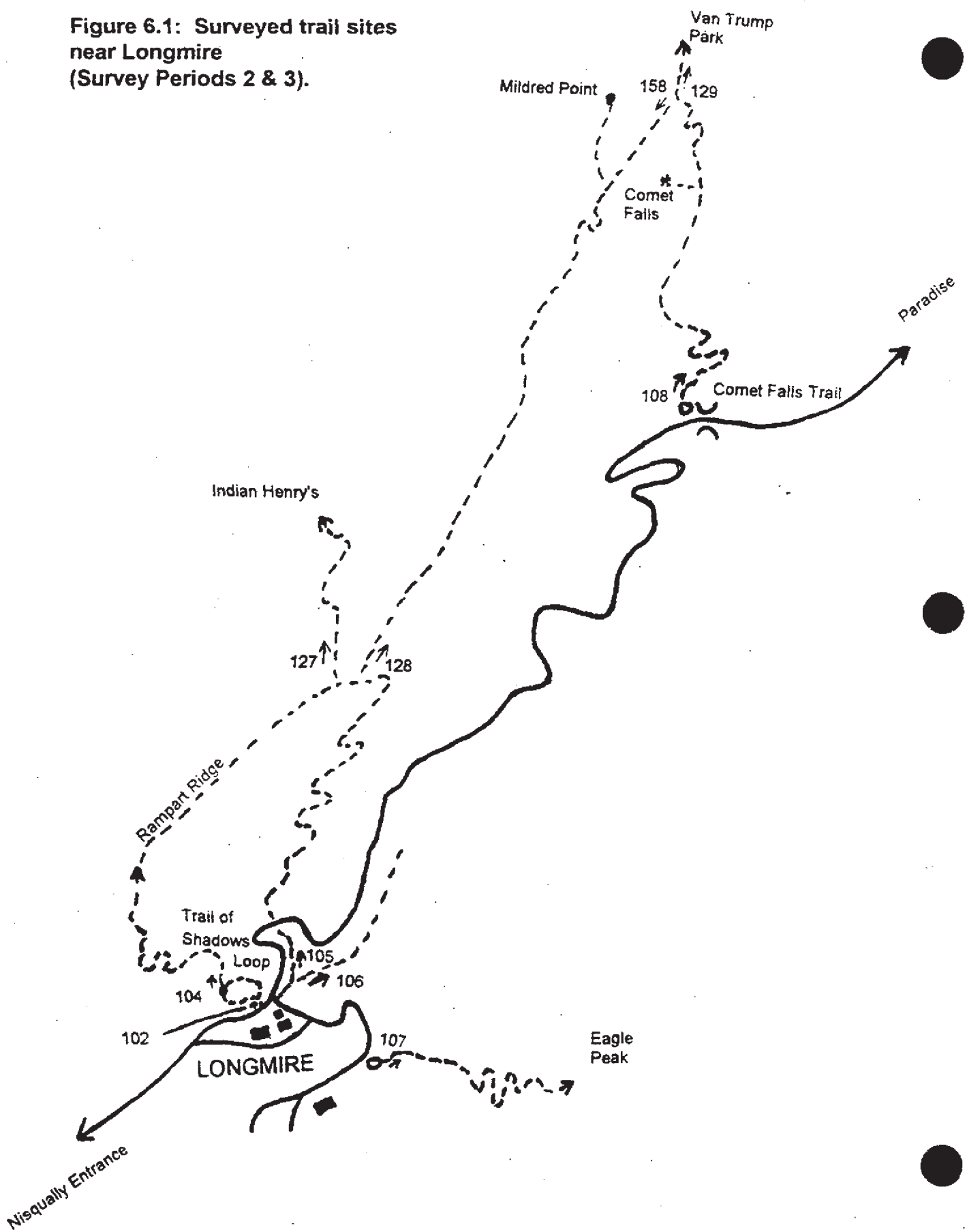
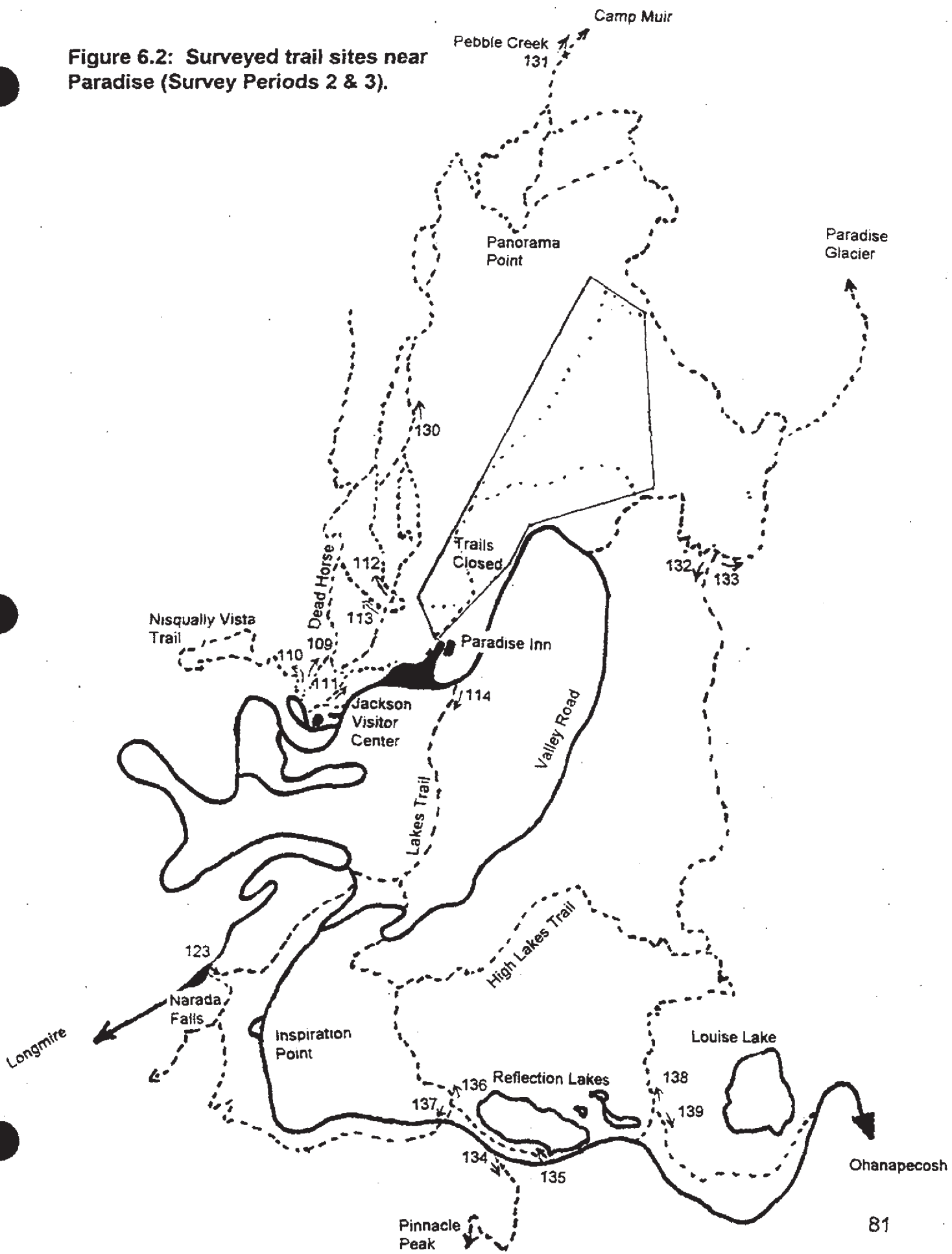


Figure 6.2: Surveyed trail sites near Paradise (Survey Periods 2 & 3).



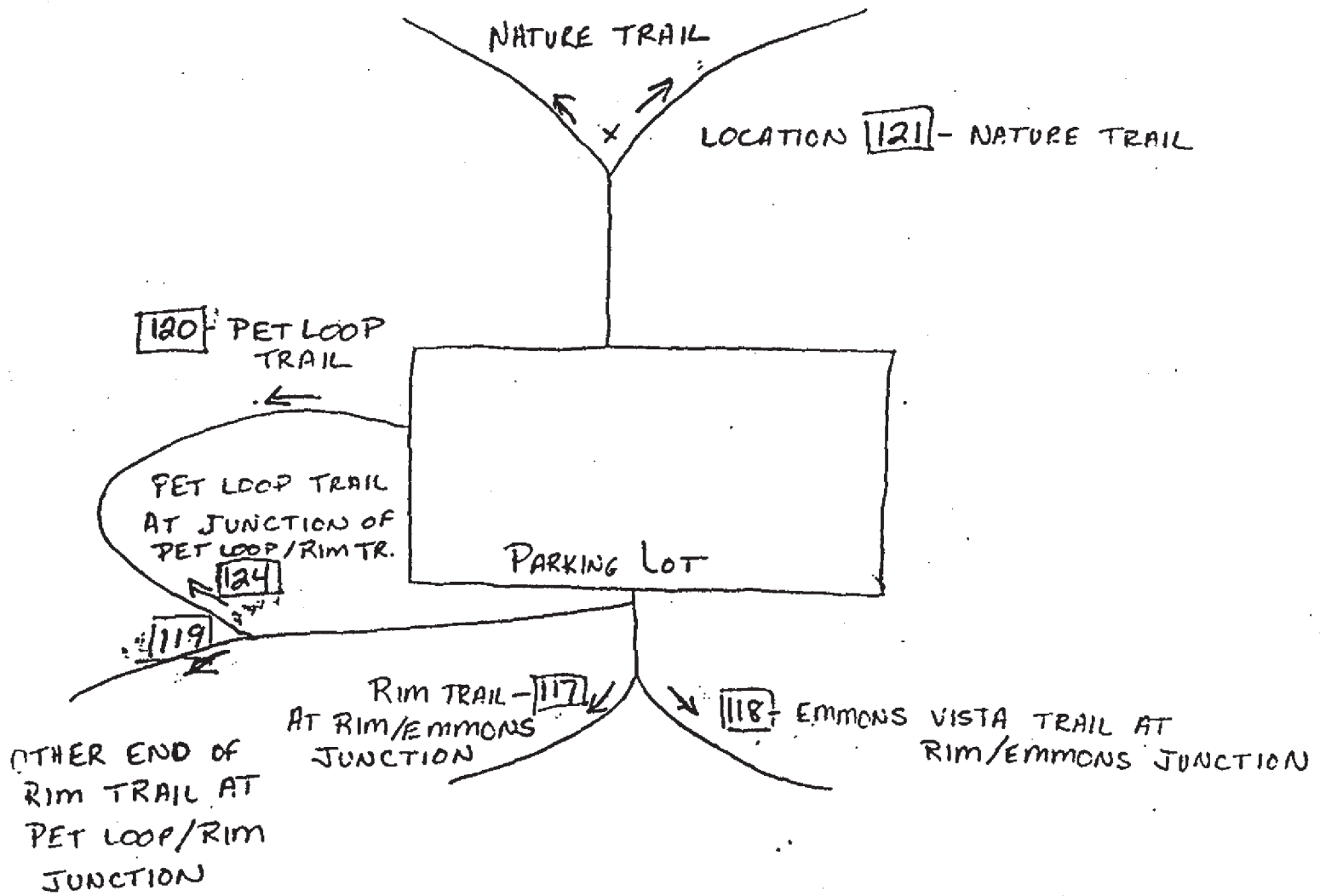
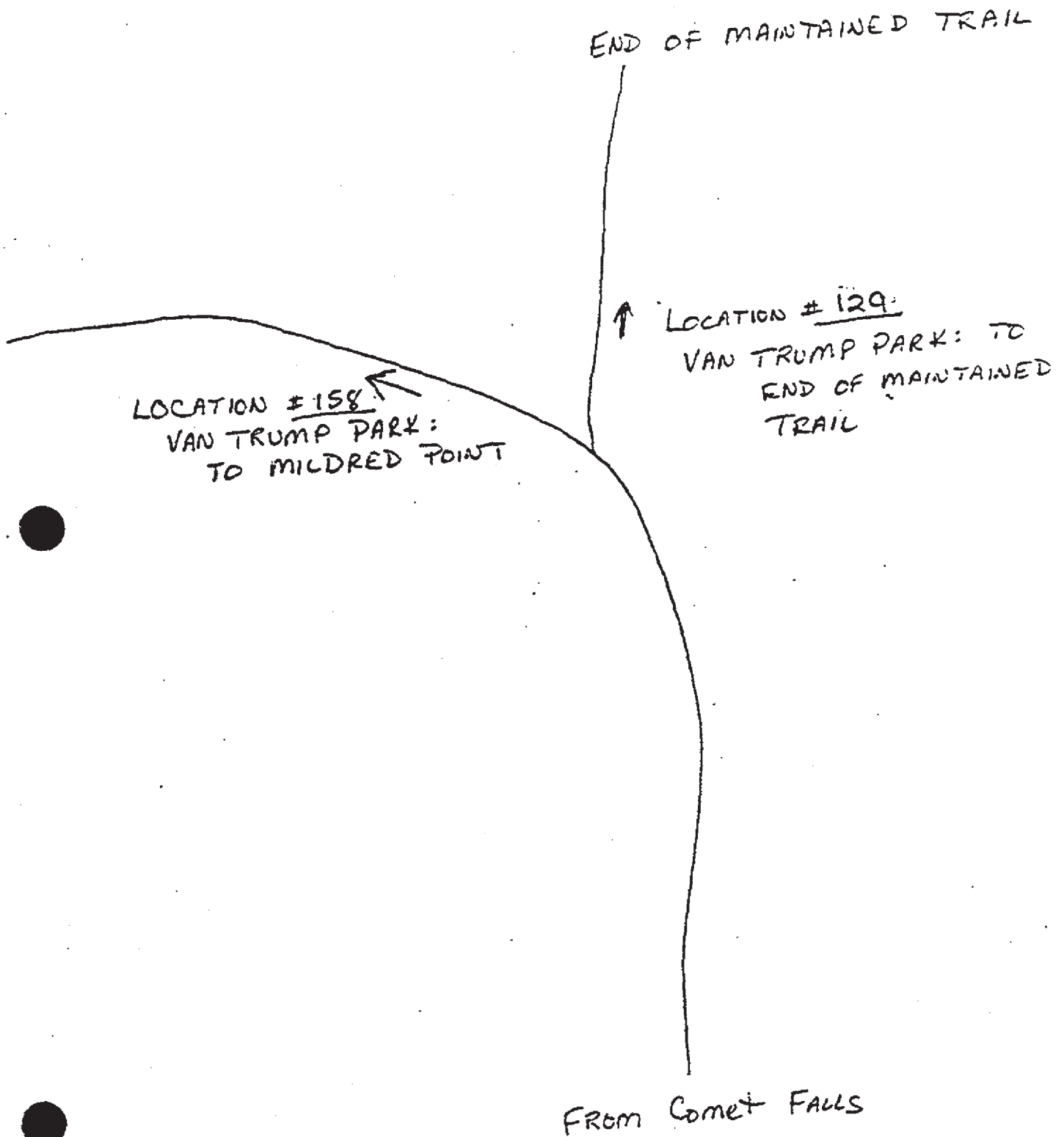


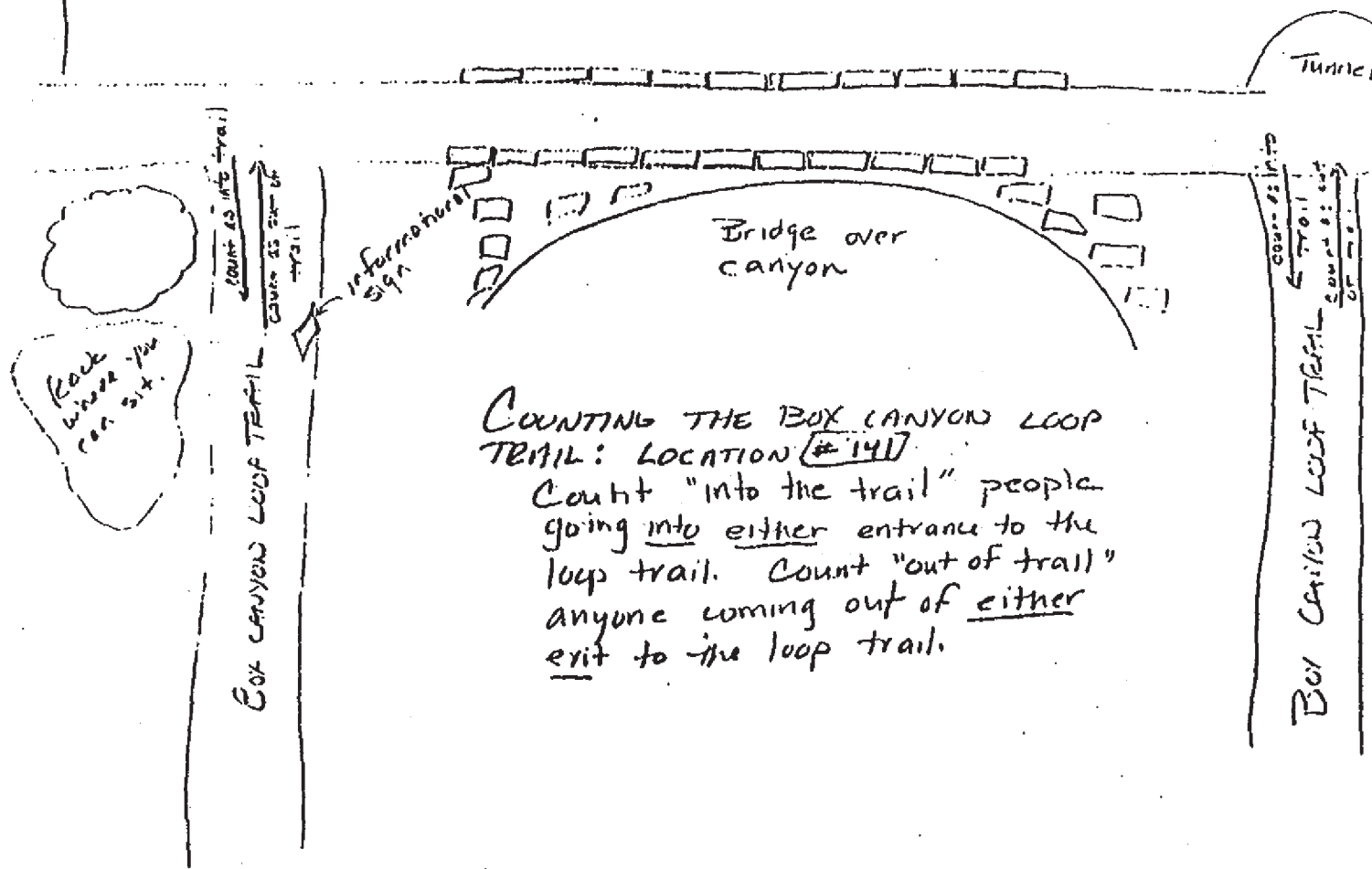
Figure 6.3: Surveyed trail sites near Sunrise (Survey Periods 2 & 3).

Figure 6.4: Surveyed trail sites above Comet Falls (Survey Periods 2 & 3).



BOX CANYON
PARKING
LOT
(COUNT ON THE HOUR,
EVERY HOUR 10-4)

Figure 6.5: Surveyed trail site at
Box Canyon (Survey Periods 2 & 3).



COUNTING THE BOX CANYON LOOP
TRAIL: LOCATION #141

Count "into the trail" people
going into either entrance to the
loop trail. Count "out of trail"
anyone coming out of either
exit to the loop trail.

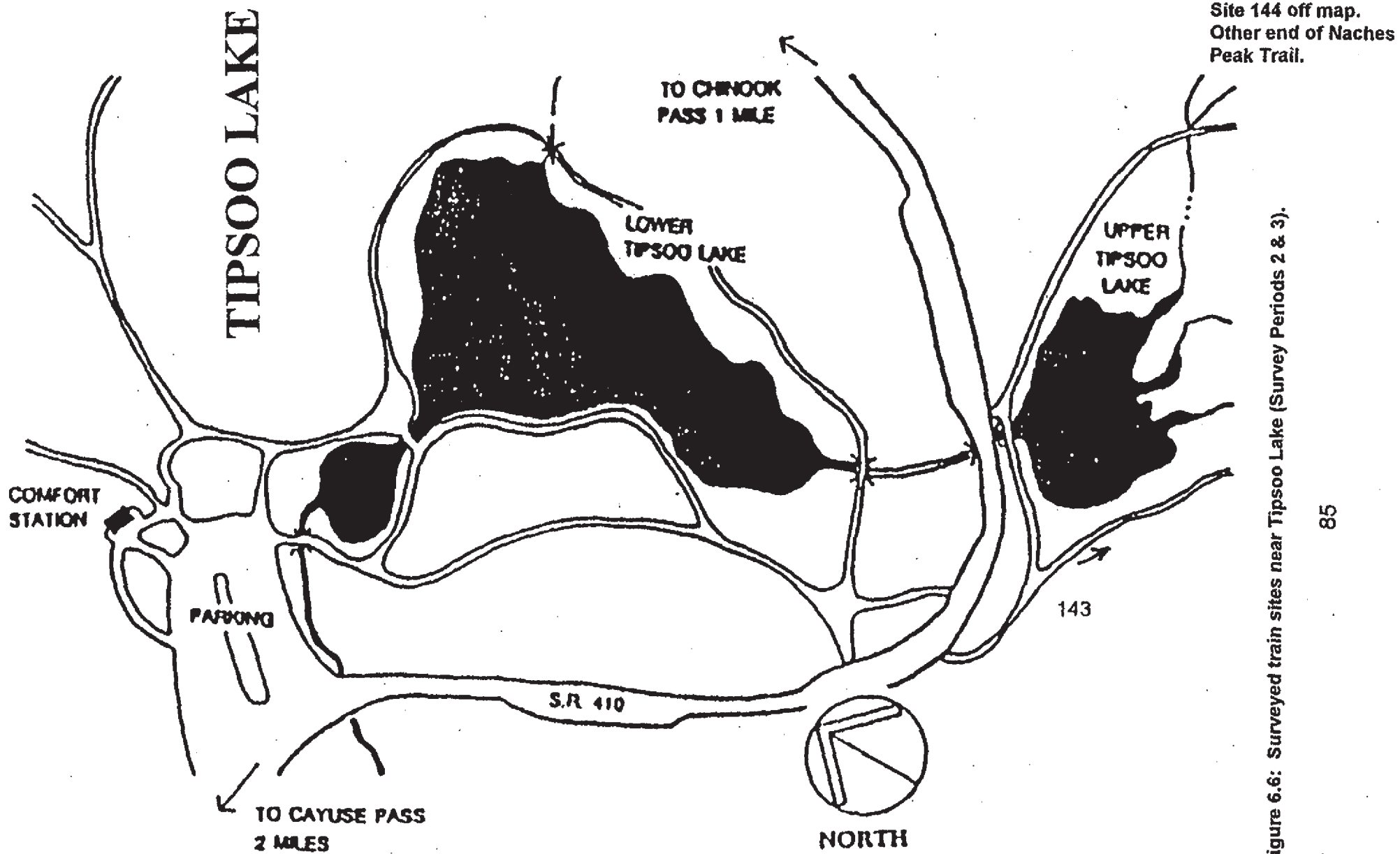


Figure 6.6: Surveyed train sites near Tipsoo Lake (Survey Periods 2 & 3).

Figure 6.7: Surveyed trail sites near Frozen Lake [near Sunrise] (Survey Periods 2 & 3).

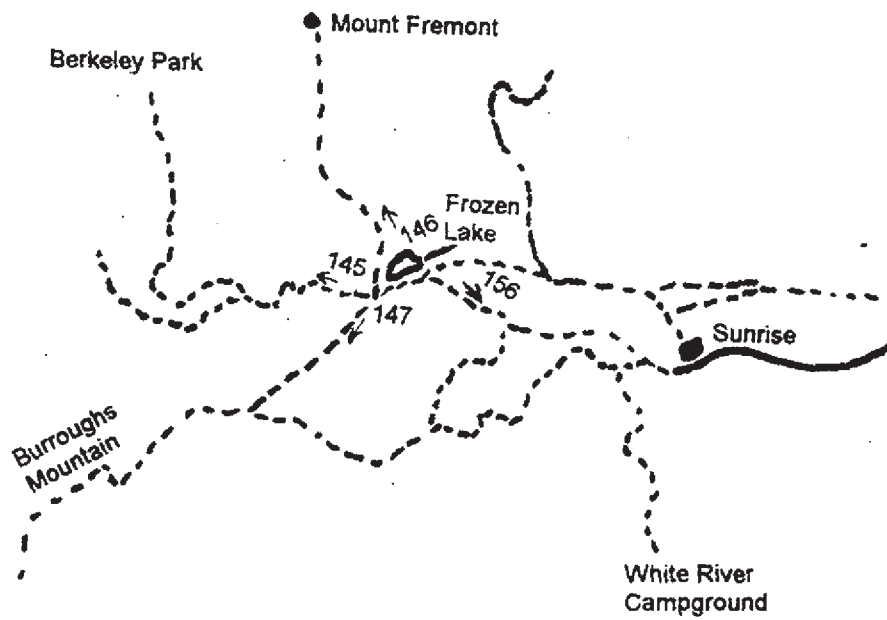


Figure 6.8: Surveyed trail site at Huckleberry Creek (Survey Periods 2 & 3).

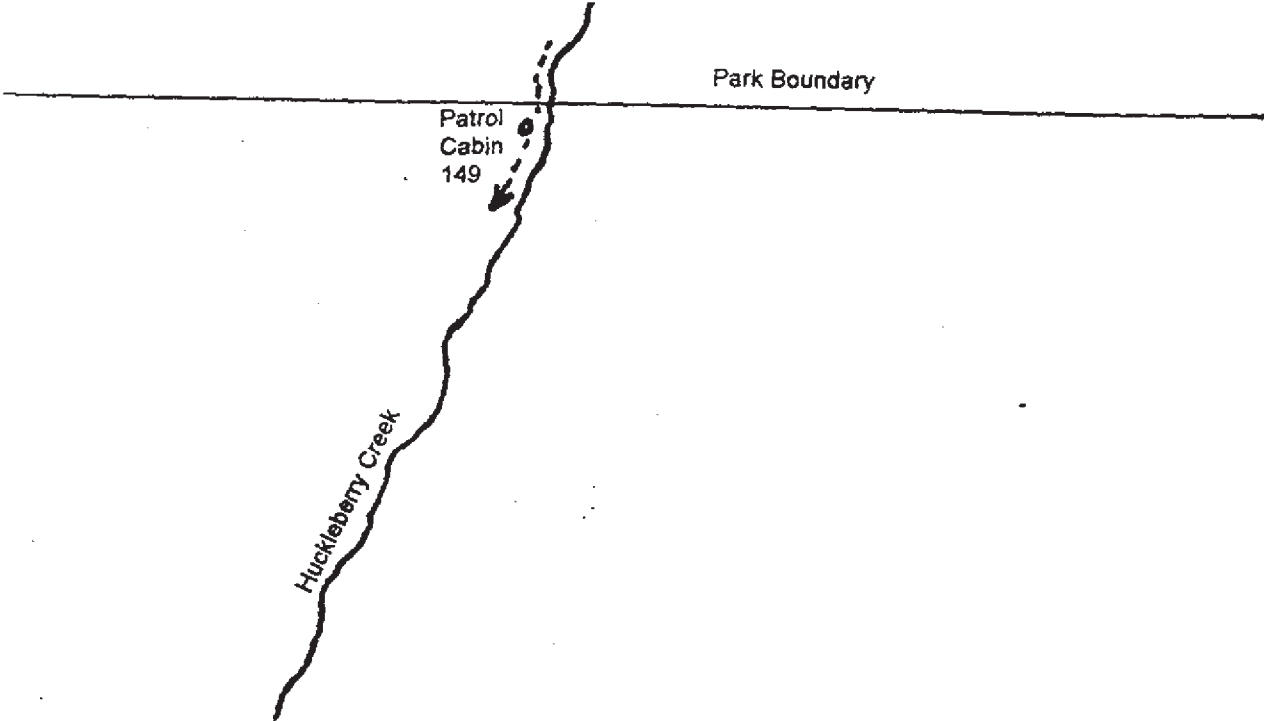
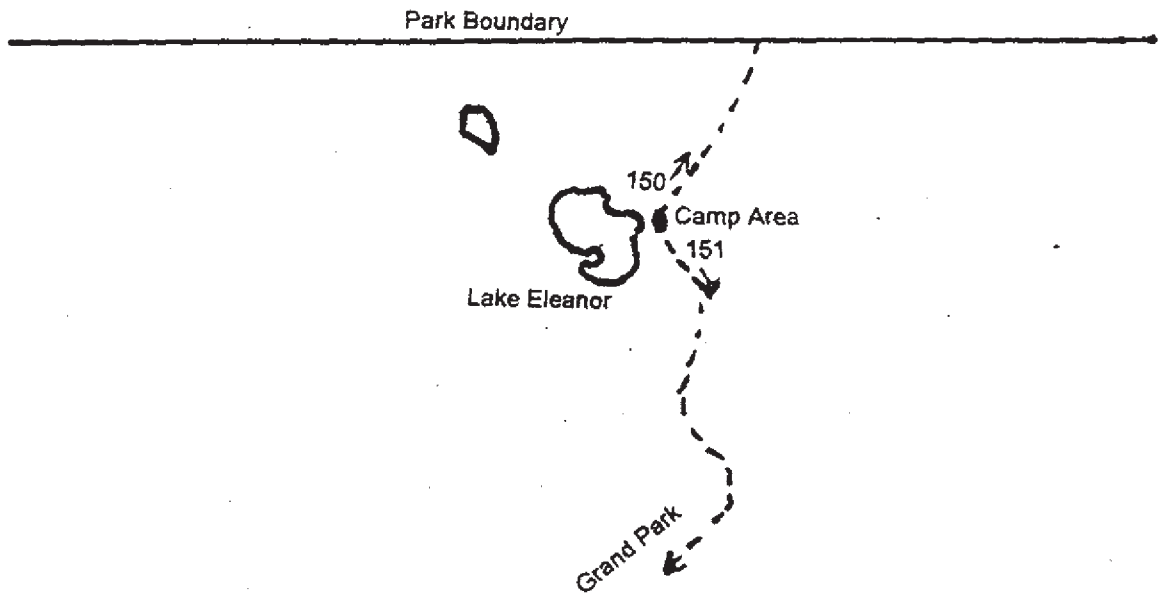


Figure 6.9: Surveyed trail sites at Lake Eleanor (Survey Periods 2 & 3).



Limitations of the data collected during the second survey period.

In addition to the general survey limitations discussed in the *General Survey Design* section, the Jackson Visitor Center was undergoing repairs to the roof. The observation deck inside the visitor center was closed and some visitors stated during informal conversations with survey workers that the scaffolding and presence of construction workers had led them to believe that the entire center was closed. These conditions could have altered visitation in the visitor center and nearby areas.

Data collected: Trail sites.

The visitor use data for trail sites are presented below in sets of three tables. For each trail site, the first table shows the cumulative counts of all visitors entering and leaving during each observed hour. The second table shows similar counts for backpackers.¹ Finally, the third table shows the weather conditions that were present during data collection.²

¹ For "snapshot" counts of visitors present at the Tipsoo Lake Trail, the "Dance Floor" on the Skyline Trail North of Alta Vista, and the Glacier Basin and Lake Eleanor campgrounds, see the section below entitled Data Collected: Facilities. "Snapshot" counts were collected in those areas because they were well defined areas in which management might wish to know the number of people who were present at one time.

² In this survey period weather data at all sites were based on supervisor notes and not recorded directly by observers.

Interpreting Data Tables From Survey Period 2: Trail Sites

In the sets of three tables that follow, the first table is laid out in 8 columns of 6 numbers. Each number represents the number of visitors passing a defined point on a trail while moving in a specified direction (either "in" or "out" on the trail) during one hour of a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken and the direction of travel.

If I wished to know the number of visitors hiking North on the Westside road between 11:00 and 12:00 on August 13 I would first look at the labels above the first Westside road table to find the two columns of data representing the 13th. I know that the Northward direction on the Westside road moves away from the parking lot and other developed facilities and can therefore conclude that it is defined as the "in" direction. However, if I have any confusion about the direction defined as "in" I can refer to the site maps in Figures 6.1 to 6.9, find the Westside road observation site and observe the arrow showing which direction is defined as "in". In this case, Northward is the "in" direction, so I move down that column to the line labeled "11 to 12" on the left and find that 9 visitors passed the observation site going North during the hour of interest.

If I wished to know the number of those 9 visitors who were backpackers outfitted for overnight camping I would look at the labels above the second Westside road table to find the two columns of data representing the 13th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 2 of the 9 visitors were backpackers.

Finally, if I wished to know the weather at the observation site during the hour when those 9 visitors passed, I could move to the third table, find the column of data under the 13th labeled "weather" and find the weather codes "2" recorded at 11:00 and 12:00. Looking at the code list below the table I conclude that it was sunny and cold during the hour of interest.

Westside Road/101

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	4	4	16	0	6	2	2	0
11 to 12	8	0	9	3	0	0	0	4
12 to 1	3	6	14	9	0	0	3	0
1 to 2	6	6	8	8	3	0	0	0
2 to 3	0	0	11	2	0	3	7	3
3 to 4	0	1	11	13	1	2	0	1

Westside Road/101

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	2	2	6	0	4	0	0	0
11 to 12	5	0	2	0	0	0	0	0
12 to 1	0	0	0	2	0	0	2	0
1 to 2	2	0	2	0	0	0	0	0
2 to 3	0	0	0	0	0	2	0	0
3 to 4	0	0	2	6	0	2	0	1

Westside Road/101

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Beginning of the Trail of Shadows/102

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	45	16	19	18	19	4	14	18
11 to 12	17	21	42	18	27	18	19	8
12 to 1	42	16	41	35	14	16	26	19
1 to 2	42	55	50	35	19	14	20	10
2 to 3	21	9	50	49	38	27	20	16
3 to 4	7	11	24	25	14	10	5	11

Beginning of the Trail of Shadows/102

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	1	0	0	0	0	0
11 to 12	4	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	5	0	2	0
3 to 4	0	0	2	0	0	0	0	2

Beginning of the Trail of Shadows/102

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rampart Ridge Trail at Junction of Trail of Shadows/104

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	21	0	5	0	0	0	4	2
11 to 12	4	2	3	2	10	6	0	0
12 to 1	5	2	5	0	0	1	3	0
1 to 2	5	0	8	10	7	0	0	2
2 to 3	12	0	6	8	5	1	6	4
3 to 4	2	6	2	3	2	4	0	4

Rampart Ridge Trail at Junction of Trail of Shadows/104

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	8	0	1	0	0	0	2	0
11 to 12	4	0	2	1	3	0	0	0
12 to 1	4	1	2	0	0	0	3	0
1 to 2	0	0	0	0	6	0	0	2
2 to 3	6	0	3	1	5	0	2	0
3 to 4	2	0	0	3	0	1	0	0

Rampart Ridge Trail at Junction of Trail of Shadows/104

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rampart Ridge at junction of Wonderland to Paradise/105

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	6	0	19	0	5	0	6	1
11 to 12	0	0	5	2	6	0	10	0
12 to 1	2	6	8	4	4	3	0	0
1 to 2	2	5	2	5	1	3	8	0
2 to 3	1	16	0	5	1	5	2	2
3 to 4	0	11	11	3	0	6	4	0

Rampart Ridge at junction of Wonderland to Paradise/105

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	2	0	9	0	4	0	6	0
11 to 12	0	0	5	2	3	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	2	0
2 to 3	1	0	0	2	0	1	0	0
3 to 4	0	0	2	0	0	3	4	0

Rampart Ridge at junction of Wonderland to Paradise/105

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland Tr. to Paradise at junction of Rampart Ridge/106

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	38	8	12	2	0	2	5	0
11 to 12	12	14	6	0	2	1	3	2
12 to 1	10	2	0	4	2	1	0	0
1 to 2	1	2	1	6	2	2	0	5
2 to 3	12	17	6	4	1	2	0	0
3 to 4	15	2	4	7	4	0	0	1

Wonderland Tr. to Paradise at junction of Rampart Ridge/106

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	2	0	2	0	2	5	0
11 to 12	0	0	2	0	0	0	0	2
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	2
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	1

Wonderland Tr. to Paradise at junction of Rampart Ridge/106

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Eagle Peak Trail/107

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	6	2	2	1	7	0	2	0
11 to 12	8	0	2	0	0	1	2	0
12 to 1	1	1	0	1	0	1	0	0
1 to 2	2	2	2	2	0	2	0	12
2 to 3	0	3	6	0	0	0	0	2
3 to 4	0	13	1	2	4	3	0	1

Eagle Peak Trail/107

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	0	0	0	0	0	0
11 to 12	0	0	0	0	1	1	0	0
12 to 1	1	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Eagle Peak Trail/107

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Comet Falls Trail/108

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	55	5	31	3	21	0	20	2
11 to 12	65	19	31	7	17	2	16	13
12 to 1	13	11	34	7	18	7	2	14
1 to 2	15	19	40	19	29	28	17	8
2 to 3	15	42	26	22	22	31	8	17
3 to 4	15	32	23	50	11	17	4	20

Comet Falls Trail/108

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	10	0	0	0
11 to 12	3	0	0	0
12 to 1	1	0	0	0
1 to 2	2	1	0	0
2 to 3	0	3	0	0
3 to 4	0	1	0	0

Comet Falls Trail/108

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Dead Horse Trail at junction of Nisqually vista/109

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	9	2	42	4	20	7	8	4
11 to 12	23	17	49	27	20	3	36	22
12 to 1	14	6	30	5	29	11	27	2
1 to 2	28	8	74	29	59	21	22	5
2 to 3	8	22	53	52	1	17	18	18
3 to 4	36	21	28	30	5	12	18	11

Dead Horse Trail at junction of Nisqually vista/109

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	6	1
3 to 4	0	0	0	0	0	0	0	0

Dead Horse Trail at junction of Nisqually vista/109

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Nisqually Vista loop at junction of Dead Horse trail/110

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	15	5	35	18	42	21	33	24
11 to 12	33	38	74	32	32	43	40	19
12 to 1	17	11	22	98	51	40	47	40
1 to 2	59	38	68	36	40	51	68	48
2 to 3	100	55	108	112	17	32	39	59
3 to 4	43	101	110	97	19	11	59	42

Nisqually Vista loop at junction of Dead Horse trail/110

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Nisqually Vista loop at junction of Dead Horse trail/110

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Pog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Beginning of Alta Vista Trail/111

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	29	0	16	5	21	14	28	1
11 to 12	26	20	77	24	33	15	17	17
12 to 1	85	19	109	76	47	39	4	22
1 to 2	46	46	103	117	39	65	15	26
2 to 3	95	73	102	150	7	62	34	55
3 to 4	64	75	176	172	16	29	26	36

Beginning of Alta Vista Trail/111

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Beginning of Alta Vista Trail/111

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Skyline at junction of Trail to Dead Horse/112

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	156	12	205	34	169	19	186	11
11 to 12	184	55	181	46	110	12	75	24
12 to 1	140	53	242	70	200	71	117	89
1 to 2	312	130	318	121	156	131	93	78
2 to 3	210	251	415	338	134	207	72	74
3 to 4	107	300	282	333	32	75	82	58

Skyline at junction of Trail to Dead Horse/112

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	54	0	37	8	77	11	67	0
11 to 12	1	5	7	4	17	0	0	2
12 to 1	10	4	5	0	16	2	2	31
1 to 2	1	3	4	2	0	2	0	3
2 to 3	0	13	2	5	0	3	0	2
3 to 4	16	6	4	5	3	43	0	0

Skyline at junction of Trail to Dead Horse/112

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail to Dead Horse at junction of Skyline/113

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	40	2	10	20	12	14	4	4
11 to 12	14	7	65	13	10	17	6	17
12 to 1	3	8	40	31	23	14	13	22
1 to 2	23	41	76	52	40	53	7	18
2 to 3	43	69	88	77	31	53	14	31
3 to 4	15	74	55	78	0	22	10	11

Trail to Dead Horse at junction of Skyline/113

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	6	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	7	0	0
1 to 2	0	0	0	3	0	0	0	0
2 to 3	0	0	0	0	0	6	0	1
3 to 4	0	1	0	0	0	0	0	0

Trail to Dead Horse at junction of Skyline/113

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lakes Trail/114

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	11	1	5	0	3	10	1	0
11 to 12	0	0	13	0	5	6	1	1
12 to 1	14	6	0	8	3	1	1	1
1 to 2	12	10	4	10	14	14	9	3
2 to 3	0	15	24	6	5	2	2	2
3 to 4	3	15	0	6	1	8	13	6

Lakes Trail/114

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	1	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Lakes Trail/114

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail across from parking lot at Grove of Patriarchs/115

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	2	0	0	6	0	6
11 to 12	4	11	3	0	8	2	8	0
12 to 1	13	12	9	6	4	4	2	2
1 to 2	14	6	8	13	4	1	10	3
2 to 3	4	0	14	10	7	14	0	0
3 to 4	7	10	6	7	0	0	0	0

Trail across from parking lot at Grove of Patriarchs/115

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	0	0	0	0	0	0
11 to 12	1	1	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	7	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Trail across from parking lot at Grove of Patriarchs/115

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Grove of the Patriarchs/116

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	105	49	61	24	39	18	57	32
11 to 12	60	87	72	28	74	45	40	43
12 to 1	83	60	75	97	40	53	28	38
1 to 2	40	82	105	90	62	32	22	30
2 to 3	91	73	60	56	60	51	24	13
3 to 4	84	63	102	74	69	63	29	15

Grove of the Patriarchs/116

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	2	0	0	0	0	0	0
11 to 12	1	0	0	0	0	0	0	0
12 to 1	0	0	2	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	7
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Grove of the Patriarchs/116

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rim Trail at Rim/Emmons junction/117

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	4	0	34	12	21	1	6	2
11 to 12	12	2	30	4	10	5	5	7
12 to 1	13	17	33	18	30	20	7	0
1 to 2	13	23	31	18	13	5	4	1
2 to 3	30	81	33	40	19	23	10	4
3 to 4	40	74	38	54	6	52	11	12

Rim Trail at Rim/Emmons junction/117

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	2	0	0	0	1	0	1	0
11 to 12	0	0	6	0	2	0	1	0
12 to 1	0	0	0	0	3	1	0	0
1 to 2	0	4	0	0	2	0	2	0
2 to 3	3	0	0	0	0	0	0	0
3 to 4	0	0	2	0	0	0	2	0

Rim Trail at Rim/Emmons junction/117

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	2	0	4	0	4	0
12:00	4	0	2	0	4	0	4	0
1:00	4	0	1	0	4	0	4	1
2:00	4	0	1	0	4	0	4	1
3:00	4	0	1	0	5	0	4	1
4:00	8	0	1	0	5	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Emmons vista trail at Rim/Emmons junction/118

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	5	2	13	2	6	6	2	2
11 to 12	2	0	18	7	9	8	4	4
12 to 1	4	10	7	6	18	18	4	2
1 to 2	10	6	24	12	7	7	4	4
2 to 3	30	8	41	36	19	24	39	16
3 to 4	7	25	70	44	2	0	10	10

Emmons vista trail at Rim/Emmons junction/118

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	1	2	1	0	0	0
12 to 1	0	0	0	0	2	1	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	2	0
3 to 4	0	0	0	0	0	0	0	0

Emmons vista trail at Rim/Emmons junction/118

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	2	0	4	0	4	0
12:00	4	0	2	0	4	0	4	0
1:00	4	0	1	0	4	0	4	1
2:00	4	0	1	0	4	0	4	1
3:00	4	0	1	0	5	0	4	1
4:00	8	0	1	0	5	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Other end of Rim trail at junction of Pet Loop trail/119

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	15	3	0	2	1	3	0	0
11 to 12	0	6	6	11	0	9	1	4
12 to 1	0	13	11	5	1	2	0	3
1 to 2	17	25	20	28	4	10	0	7
2 to 3	2	31	33	63	5	36	0	8
3 to 4	11	27	10	87	0	34	0	5

Other end of Rim trail at junction of Pet Loop trail/119

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	2	0	2	0	3	0	0
11 to 12	0	0	0	0	0	0	0	2
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	2	0	0	0
2 to 3	0	0	0	0	0	4	0	0
3 to 4	2	0	0	0	0	6	0	0

Other end of Rim trail at junction of Pet Loop trail/119

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	2	0	4	0	4	0
12:00	4	0	2	0	4	0	4	0
1:00	4	0	1	0	4	0	4	1
2:00	4	0	1	0	4	0	4	1
3:00	4	0	1	0	5	0	4	1
4:00	8	0	1	0	5	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Nature Trail at Sunrise/121

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	46	1	106	21	53	12	3	5
11 to 12	107	5	184	21	46	32	6	0
12 to 1	138	27	161	44	90	31	38	5
1 to 2	85	103	193	102	82	38	16	21
2 to 3	88	75	197	155	54	87	37	26
3 to 4	52	117	87	171	30	86	31	39

Nature Trail at Sunrise/121

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	9	0	4	0	3	0	1	5
11 to 12	4	0	2	5	7	0	4	0
12 to 1	0	5	1	0	0	3	0	2
1 to 2	6	1	0	1	2	0	0	2
2 to 3	0	0	0	0	4	2	0	0
3 to 4	0	0	0	2	0	4	0	5

Nature Trail at Sunrise/121

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	11:00	4	0	2	0	4	0	4	0
12:00	4	0	2	0	4	0	4	0
1:00	4	0	1	0	4	0	4	1
2:00	4	0	1	0	4	0	4	1
3:00	4	0	1	0	5	0	4	1
4:00	8	0	1	0	5	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Narada Falls trail/123

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	69	64	71	62	99	69	65	30
11 to 12	213	162	161	159	125	115	84	112
12 to 1	139	151	212	191	158	159	90	98
1 to 2	211	216	252	266	190	172	86	87
2 to 3	175	188	305	267	209	265	93	81
3 to 4	194	190	277	274	98	107	107	87

Narada Falls trail/123

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Narada Falls trail/123

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Kautz Creek Trail/126

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	.	.	24	17	8	0	5	3
11 to 12	.	.	15	5	1	2	7	3
12 to 1	.	.	21	13	7	6	5	5
1 to 2	.	.	17	9	0	0	0	4
2 to 3	.	.	18	21	5	4	3	7
3 to 4	.	.	11	9	6	4	0	0

Kautz Creek Trail/126

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11
11 to 12
12 to 1
1 to 2
2 to 3
3 to 4

Kautz Creek Trail/126

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland trail/Trail to Van Trump Park junction/127

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	5	0	15	0	3	0
11 to 12	4	4	22	0	6	3	9	0
12 to 1	0	4	3	6	2	3	10	0
1 to 2	6	14	4	3	7	6	4	6
2 to 3	1	7	6	0	8	7	2	0
3 to 4	0	8	9	3	1	6	6	0

Wonderland trail/Trail to Van Trump Park junction/127

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	0	1	0	10	0	0	0
11 to 12	2	0	6	0	4	3	3	0
12 to 1	0	0	3	0	2	0	0	0
1 to 2	2	0	2	0	4	4	0	0
2 to 3	1	0	0	0	8	0	0	0
3 to 4	0	0	4	0	0	0	2	0

Wonderland trail/Trail to Van Trump Park junction/127

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail to Van Trump Park/Wonderland Trail junction/128

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	2	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	2	0	0	0	3	0
2 to 3	0	4	0	0	1	2	0	0
3 to 4	0	2	0	0	0	0	0	0

Trail to Van Trump Park/Wonderland Trail junction/128

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Trail to Van Trump Park/Wonderland Trail junction/128

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Van Trump Park: to end of maintained trail/129

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	0	2	0	0	0	1	0
11 to 12	0	2	10	5	7	0	2	0
12 to 1	28	14	11	0	18	6	9	0
1 to 2	28	28	11	16	4	5	8	5
2 to 3	19	19	26	8	5	9	5	2
3 to 4	3	18	15	19	2	5	3	0

Van Trump Park: to end of maintained trail/129

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	1	0	0	0
12 to 1	0	0	0	0	5	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	3	0	0	0	1	0	0
3 to 4	0	0	0	0	0	0	0	0

Van Trump Park: to end of maintained trail/129

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Skyline trail past "Dance floor"/130

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	119	27	201	39	127	19	135	7
11 to 12	136	32	136	29	62	20	60	15
12 to 1	108	44	180	93	122	60	59	102
1 to 2	185	149	212	151	107	112	59	69
2 to 3	103	148	187	248	88	165	45	52
3 to 4	269	108	200	318	8	142	40	48

Skyline trail past "Dance floor"/130

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	63	0	93	13	68	13	68	2
11 to 12	83	11	4	1	19	0	0	3
12 to 1	12	1	5	0	15	0	2	30
1 to 2	5	10	1	8	1	2	0	4
2 to 3	0	6	2	7	1	10	0	3
3 to 4	16	53	1	41	3	68	0	2

Skyline trail past "Dance floor"/130

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Pebble Creek/131

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	47	5	40	2	10	2	17	8
11 to 12	60	3	103	10	56	9	38	31
12 to 1	69	17	32	10	13	2	8	4
1 to 2	23	15	.	.	17	23	6	9
2 to 3	15	26	37	48	16	69	15	15
3 to 4	4	65	9	24	0	0	4	6

Pebble Creek/131

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	28	2	9	0	6	0	11	2
11 to 12	24	0	47	2	39	7	35	31
12 to 1	42	2	4	5	3	0	5	4
1 to 2	12	4	.	.	15	7	0	0
2 to 3	2	5	2	14	12	47	2	5
3 to 4	0	32	4	6	0	0	0	2

Pebble Creek/131

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lakes Trail/Skyline trail junction/132

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	3	1	0	0	0	0
11 to 12	1	0	0	6	2	9	0	0
12 to 1	5	2	11	20	2	0	0	0
1 to 2	0	0	0	0	3	2	5	4
2 to 3	5	5	0	0	7	9	6	0
3 to 4	7	5	0	6	2	2	0	1

Lakes trail/Skyline trail junction/132

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	2	0	0	0

Lakes trail/Skyline trail junction/132

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Skyline Trail/Lakes Trail junction/133

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	8	2	0	2	0	0
11 to 12	8	3	9	4	7	4	6	3
12 to 1	8	9	16	13	4	11	6	7
1 to 2	14	56	27	42	10	50	4	7
2 to 3	11	31	13	73	0	21	0	28
3 to 4	9	47	27	50	0	20	0	33

Skyline Trail/Lakes Trail junction/133

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	1	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Skyline Trail/Lakes Trail junction/133

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Pinnacle Peak Trail/134

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	11	0	20	2	3	1	1	1
11 to 12	12	0	24	1	32	4	2	1
12 to 1	13	9	18	6	8	3	3	0
1 to 2	56	12	22	28	10	12	3	0
2 to 3	18	15	17	20	0	16	2	2
3 to 4	5	44	0	10	0	31	1	5

Pinnacle Peak Trail/134

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	1	2	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	1	0	0	0	0	0	2	0
1 to 2	0	0	0	0	0	0	3	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	2	0

Pinnacle Peak Trail/134

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail in front of Reflection Lakes/135

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	8	2	24	20	16	12	2	2
11 to 12	16	15	16	21	17	13	7	6
12 to 1	3	1	7	11	11	7	7	8
1 to 2	14	14	40	32	10	10	11	11
2 to 3	24	17	41	34	9	9	11	13
3 to 4	8	10	50	40	0	1	11	13

Trail in front of Reflection Lakes/135

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	3	3	0	0	2	0	0	0
11 to 12	0	0	0	0	2	4	0	0
12 to 1	0	0	0	0	0	0	1	1
1 to 2	0	0	0	0	0	0	4	4
2 to 3	1	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Trail in front of Reflection Lakes/135

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Reflection Lakes Trail (West)/Wonderland Trail junction/136

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	6	5	9	0	3
11 to 12	3	1	0	1	0	3	1	0
12 to 1	9	3	6	7	10	6	0	0
1 to 2	7	14	7	5	3	3	8	8
2 to 3	20	8	19	16	7	11	2	0
3 to 4	9	5	13	10	3	3	3	5

Reflection Lakes Trail (West)/Wonderland Trail junction/136

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	1	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Reflection Lakes Trail (West)/Wonderland Trail junction/136

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland Trail/Reflection Lakes (West) junction/137

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	3	0	2	0	0	0	0
11 to 12	0	4	5	0	10	0	0	2
12 to 1	0	0	1	0	7	1	0	0
1 to 2	0	0	3	6	6	6	5	0
2 to 3	0	0	2	0	0	4	0	3
3 to 4	4	4	0	0	1	1	0	3

Wonderland Trail/Reflection Lakes (West) junction/137

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	3	0	0	0	0	0	0
11 to 12	0	0	0	0	4	0	2	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	5	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Wonderland Trail/Reflection Lakes (West) junction/137

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Reflection Lakes (East)/Wonderland Trail junction/138

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	2	2	2	2	0	2	0
11 to 12	0	0	22	3	0	2	0	0
12 to 1	1	0	2	0	8	2	2	0
1 to 2	3	3	2	7	7	4	0	0
2 to 3	2	8	7	0	0	2	0	0
3 to 4	9	9	0	4	4	1	8	0

Reflection Lakes (East)/Wonderland Trail junction/138

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	6	0

Reflection Lakes (East)/Wonderland Trail junction/138

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland Trail/Reflection Lakes (East) junction/139

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	3	0	1	0	8	0	2	2
11 to 12	0	8	0	0	0	4	2	0
12 to 1	1	3	0	2	10	5	1	0
1 to 2	0	0	0	0	5	0	4	0
2 to 3	1	0	0	4	0	0	2	0
3 to 4	9	4	0	0	1	1	0	0

Wonderland Trail/Reflection Lakes (East) junction/139

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	3	0	0	0	4	0	0	0
11 to 12	0	8	0	0	0	0	2	0
12 to 1	2	0	2	0	0	0	1	0
1 to 2	0	0	0	0	0	0	4	0
2 to 3	1	0	4	0	0	0	2	0
3 to 4	0	0	0	0	0	0	0	0

Wonderland Trail/Reflection Lakes (East) junction/139

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Bench Lake trail/140

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	1	3	6	3	16	2	3	0
11 to 12	2	6	15	6	5	3	3	1
12 to 1	16	9	13	5	10	13	7	4
1 to 2	16	4	19	2	1	5	0	3
2 to 3	2	14	17	11	8	8	3	5
3 to 4	8	9	3	23	3	20	0	3

Bench Lake trail/140

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	2	2	0	0	0	0	0
11 to 12	2	0	0	4	0	0	0	0
12 to 1	1	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	2	0	0
2 to 3	2	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Bench Lake trail/140

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Box Canyon Loop Trail/141

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	40	40	.	.	23	20	36	27
11 to 12	37	33	.	.	47	43	29	41
12 to 1	43	45	.	.	57	57	76	69
1 to 2	64	50	94	70	37	27	44	44
2 to 3	55	63	101	68	81	92	24	28
3 to 4	51	63	61	88	62	61	30	26

Box Canyon Loop Trail/141

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	1	2	0	0
1 to 2	0	2	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	2

Box Canyon Loop Trail/141

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Naches Peak Trail (enter from Park)/143

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	10	16	0	5	2	0
11 to 12	0	0	4	17	6	1	6	2
12 to 1	0	11	42	22	4	8	12	26
1 to 2	15	8	17	46	6	6	1	11
2 to 3	13	16	19	61	0	22	2	18
3 to 4	5	11	11	64	0	3	0	0

Naches Peak Trail (enter from Park)/143

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	3	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	2	0	0	0	0	0	0	0

Naches Peak Trail (enter from Park)/143

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	5	1
12:00	5	0	2	0	2	0	5	1
1:00	4	0	1	0	5	1	4	0
2:00	4	0	1	0	5	1	4	0
3:00	8	0	1	0	5	1	4	0
4:00	8	0	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Naches Peak trail (enter from Pacific Crest Trail)/144

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	.	.	55	2	25	6	4	7
11 to 12	.	.	37	8	32	13	24	0
12 to 1	.	.	80	36	16	4	22	0
1 to 2	.	.	76	62	6	13	16	4
2 to 3	.	.	55	37	9	12	7	11
3 to 4	.	.	44	33	5	29	0	3

Naches Peak trail (enter from Pacific Crest Trail)/144

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	.	.	0	0	3	4	0	7
11 to 12	.	.	0	0	7	0	0	0
12 to 1	.	.	0	0	0	0	0	0
1 to 2	.	.	4	0	0	0	6	4
2 to 3	.	.	17	3	0	0	0	2
3 to 4	.	.	1	3	0	0	0	0

Naches Peak trail (enter from Pacific Crest Trail)/144

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	5	1
12:00	5	0	2	0	2	0	5	1
1:00	4	0	1	0	5	1	4	0
2:00	4	0	1	0	5	1	4	0
3:00	8	0	1	0	5	1	4	0
4:00	8	0	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland/Mt. Freemont/Burroughs/Sunrise Camp junction/145

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	7	0	25	4	6	0	3	4
11 to 12	22	4	19	0	6	3	0	4
12 to 1	18	9	20	10	16	7	3	0
1 to 2	10	1	22	2	5	14	2	2
2 to 3	5	6	19	27	8	12	2	5
3 to 4	.	.	0	28	0	19	0	4

Wonderland/Mt. Freemont/Burroughs/Sunrise Camp junction/145

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	3	0	3	9	0	0	2	4
11 to 12	4	4	0	2	0	0	0	4
12 to 1	1	0	0	2	7	3	2	0
1 to 2	4	0	0	0	2	4	0	0
2 to 3	0	0	0	1	0	6	2	5
3 to 4	.	.	0	3	0	15	0	2

Wonderland/Mt. Freemont/Burroughs/Sunrise Camp junction/145

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
11:00	4	1	2	0	4	0	4	0
12:00	4	1	2	0	4	0	4	0
1:00	4	1	1	0	4	0	2	1
2:00	4	1	1	0	4	0	2	1
3:00	8	0	1	0	5	0	2	1
4:00	8	0	1	0	5	0	2	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Mt. Freemont/Wonderland/Burroughs/Sunrise Camp junction/146

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	0	18	3	3	7	1	5
11 to 12	11	0	16	3	5	2	0	0
12 to 1	30	4	17	8	6	5	2	2
1 to 2	6	23	31	14	6	2	3	0
2 to 3	6	25	22	29	14	10	2	3
3 to 4	.	.	9	30	0	13	2	4

Mt. Freemont/Wonderland/Burroughs/Sunrise Camp junction/146

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	2	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	.	.	0	0	0	0	0	0

Mt. Freemont/Wonderland/Burroughs/Sunrise Camp junction/146

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	1	2	0	4	0	4	0
12:00	4	1	2	0	4	0	4	0
1:00	4	1	1	0	4	0	2	1
2:00	4	1	1	0	4	0	2	1
3:00	8	0	1	0	5	0	2	1
4:00	8	0	1	0	5	0	2	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Burroughs/Mt. Freemont/Wonderland/Sunrise Camp junction/147

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	5	0	13	3	3	2	0	0
11 to 12	29	1	66	2	9	3	3	3
12 to 1	18	1	50	12	15	6	0	0
1 to 2	13	13	39	7	10	12	5	3
2 to 3	26	6	56	22	14	13	2	1
3 to 4	.	.	31	38	2	7	3	1

Burroughs/Mt. Freemont/ Wonderland/Sunrise Camp junction/147

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	2	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	.	.	0	0	0	0	0	0

Burroughs/Mt. Freemont/ Wonderland/Sunrise Camp junction/147

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	1	2	0	4	0	4	0
12:00	4	1	2	0	4	0	4	0
1:00	4	1	1	0	4	0	2	1
2:00	4	1	1	0	4	0	2	1
3:00	8	0	1	0	5	0	2	1
4:00	8	0	1	0	5	0	2	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

End Point of Glacier Basin/148

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	13	4	6	4	3	9	2	0
11 to 12	8	0	4	0	8	4	10	3
12 to 1	17	11	9	9	7	4	7	7
1 to 2	41	17	10	8	6	10	0	0
2 to 3	5	27	10	8	13	9	0	0
3 to 4	19	12	26	21	0	3	7	7

End Point of Glacier Basin/148

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	13	2	5	0	0	3	2	0
11 to 12	4	0	4	0	2	0	5	0
12 to 1	10	9	0	9	0	4	0	0
1 to 2	0	13	0	0	0	0	0	0
2 to 3	0	3	2	0	0	0	0	0
3 to 4	0	5	5	0	0	0	0	0

End Point of Glacier Basin/148

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	1	2	0	4	0	4	0
12:00	4	1	2	0	4	0	4	0
1:00	4	1	1	0	5	0	2	1
2:00	4	1	1	0	5	0	2	1
3:00	8	0	1	0	5	0	2	1
4:00	8	0	1	0	5	0	2	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Buckleberry Creek Trail/149

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	6	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	6
1 to 2	0	0	1	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	1	0	0	0	0

Buckleberry Creek Trail/149

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Buckleberry Creek Trail/149

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	.	0	.	0	.	0	.	0
12:00	.	0	.	0	.	0	.	0
1:00	.	0	.	0	.	0	.	0
2:00	.	0	.	0	.	0	.	0
3:00	.	0	.	0	.	0	.	0
4:00	.	0	.	0	.	0	.	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lake Eleanor trail into Forest Service Land/150

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	0	5	5	4	0	0	0
11 to 12	0	0	0	0	6	0	0	0
12 to 1	1	0	2	6	5	0	0	0
1 to 2	0	0	0	6	2	5	0	0
2 to 3	0	1	3	0	3	6	0	0
3 to 4	0	0	5	0	0	3	0	0

Lake Eleanor trail into Forest Service Land/150

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	2	0	5	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	1	0	2	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Lake Eleanor trail into Forest Service Land/150

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	.	0	.	0	.	0	.	0
12:00	.	0	.	0	.	0	.	0
1:00	.	0	.	0	.	0	.	0
2:00	.	0	.	0	.	0	.	0
3:00	.	0	.	0	.	0	.	0
4:00	.	0	.	0	.	0	.	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lake Eleanor trail into Park Service Land/151

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	0	24	5	4	0	0	0
11 to 12	0	0	0	0	6	0	0	0
12 to 1	1	0	6	0	5	0	0	0
1 to 2	0	0	6	2	2	4	0	0
2 to 3	0	1	2	2	3	6	0	0
3 to 4	10	0	2	16	0	3	0	0

Lake Eleanor trail into Park Service Land/151

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	2	0	0	3	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	2	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	3	0	0	0
3 to 4	7	0	0	0	0	0	0	0

Lake Eleanor trail into Park Service Land/151

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	.	0	.	0	.	0	.	0
12:00	.	0	.	0	.	0	.	0
1:00	.	0	.	0	.	0	.	0
2:00	.	0	.	0	.	0	.	0
3:00	.	0	.	0	.	0	.	0
4:00	.	0	.	0	.	0	.	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Upper Tipsoo Lake/154

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	1	1	0	0	.	.
11 to 12	35	5	2	2	1	1	.	.
12 to 1	2	0	2	2	4	4	.	.
1 to 2	3	2	7	7	6	6	.	.
2 to 3	6	0	17	17	5	0	.	.
3 to 4	4	3	15	15	0	0	.	.

Upper Tipsoo Lake/154

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	.	.
11 to 12	0	0	0	0	0	0	.	.
12 to 1	0	0	0	0	0	0	.	.
1 to 2	0	0	0	0	0	0	.	.
2 to 3	0	0	0	0	0	0	.	.
3 to 4	0	0	0	0	0	0	.	.

Upper Tipsoo Lake/154

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	5	0	2	0	2	0	5	1
12:00	5	0	2	0	2	0	5	1
1:00	4	0	1	0	5	1	4	0
2:00	4	0	1	0	5	1	4	0
3:00	8	0	1	0	5	1	4	0
4:00	8	0	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Camp/Mt. Fremont/Wonderland/Burroughs junction/156

Visitors passing observation site.

	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	.	.	3	6	5	0	4	0
11 to 12	.	.	2	1	4	2	5	0
12 to 1	.	.	13	0	10	2	0	0
1 to 2	.	.	24	18	27	0	3	0
2 to 3	.	.	37	3	30	4	2	0
3 to 4	.	.	60	15	4	2	4	0

Sunrise Camp/Mt. Fremont/Wonderland/Burroughs junction/156

Backpackers passing observation site.

	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME								
10 to 11	.	.	0	3	0	0	2	0
11 to 12	.	.	0	0	0	0	2	0
12 to 1	.	.	0	0	0	0	0	0
1 to 2	.	.	0	0	0	0	0	0
2 to 3	.	.	0	0	6	0	0	0
3 to 4	.	.	0	0	3	0	2	0

Sunrise Camp/Mt. Fremont/Wonderland/Burroughs junction/156

Weather and wind conditions at observation site.

	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
TIME								
11:00	4	1	2	0	4	0	4	0
12:00	4	1	2	0	4	0	4	0
1:00	4	1	1	0	4	0	2	1
2:00	4	1	1	0	4	0	2	1
3:00	8	0	1	0	5	0	2	1
4:00	8	0	1	0	5	0	2	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Van Trump Park: to Mildred Point/158

Visitors passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	8	0	0	0
11 to 12	0	2	3	0	0	0	0	0
12 to 1	13	0	0	0	2	6	0	0
1 to 2	8	3	4	5	1	0	0	0
2 to 3	3	0	0	0	0	1	2	0
3 to 4	0	11	7	7	0	0	0	0

Van Trump Park: to Mildred Point/158

Backpackers passing observation site.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Van Trump Park: to Mildred Point/158

Weather and wind conditions at observation site.

TIME	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data collected: Loops and Webs.

Maps of loops and webs. (Survey Period 2 [and 3]).

In survey period 2, the number of observation points was sufficient to allow description of two webs and five loops. These trail systems are shown in Figures 6.10 to 6.13.

Figure 6.10: Sites included in Paradise Upper Web [#109, 111, 112, 113, 133, 125] and Paradise Lower Web [#114, 132, 136, 138] (Survey Periods 2 & 3).

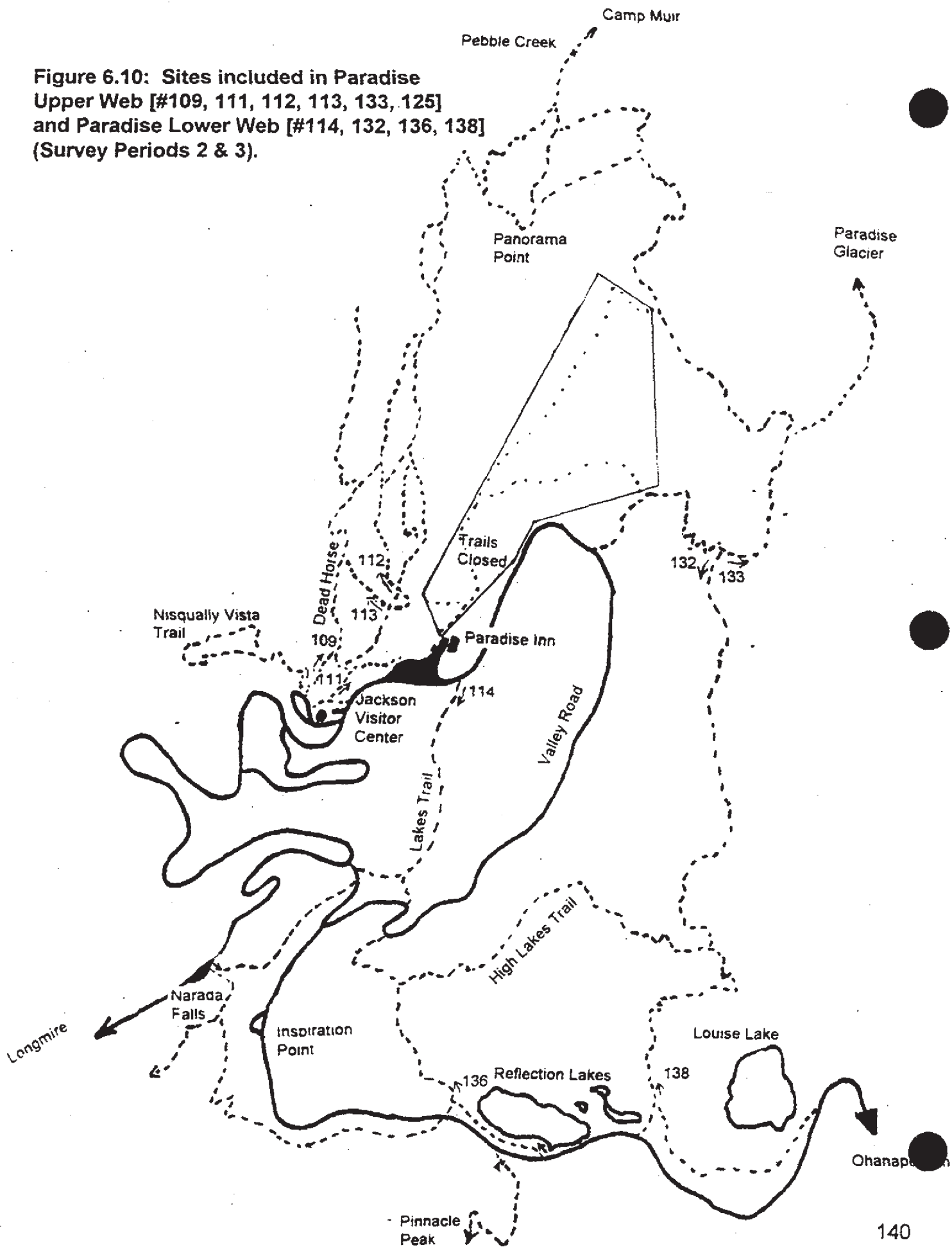


Figure 6.11: Sites included in Trail of the Shadows Loop [#104 out and #102 in], Rampart Ridge Loop [#104 and #105], and Van Trump Park Loop [#108 and 128] (Survey Periods 2 & 3).

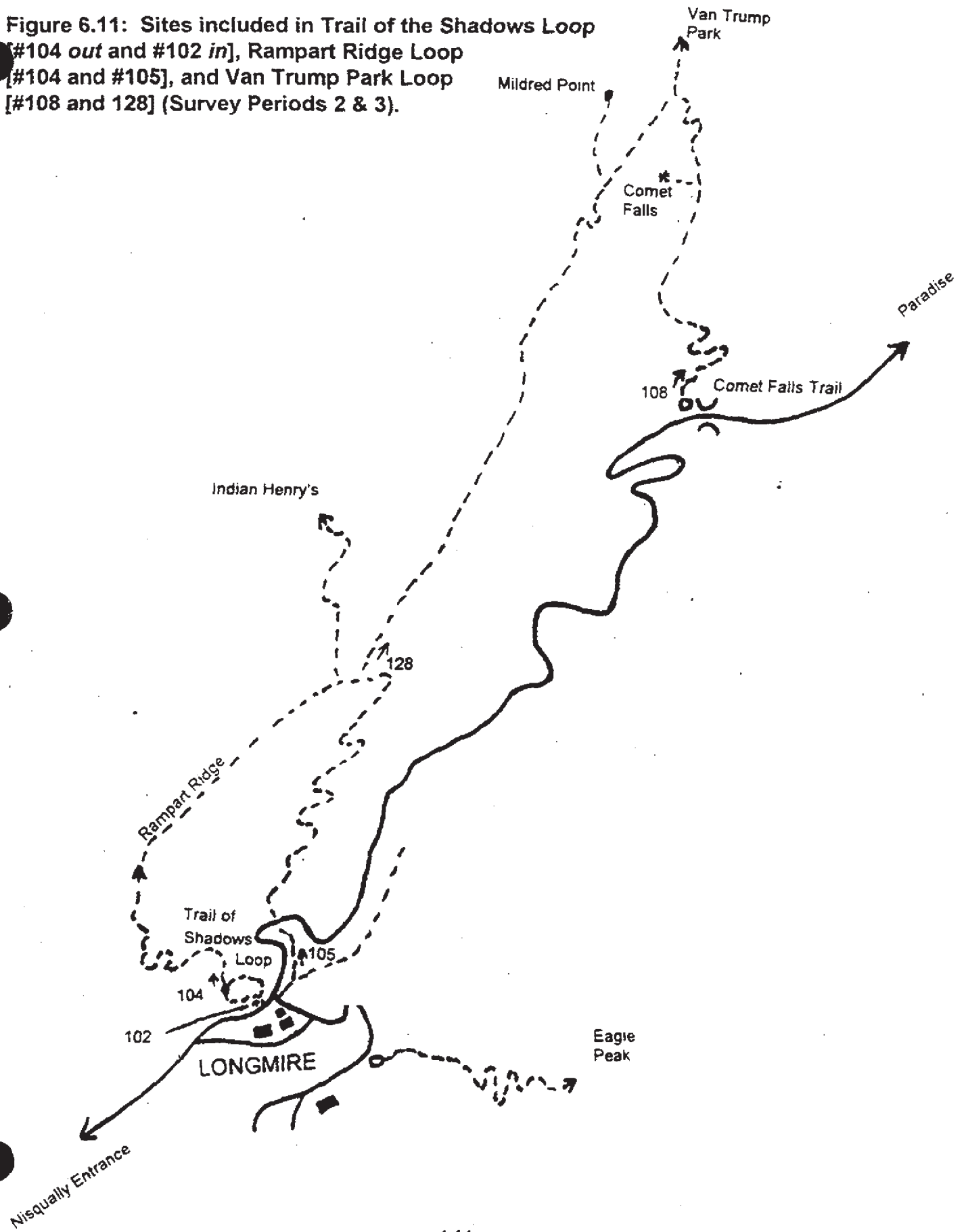
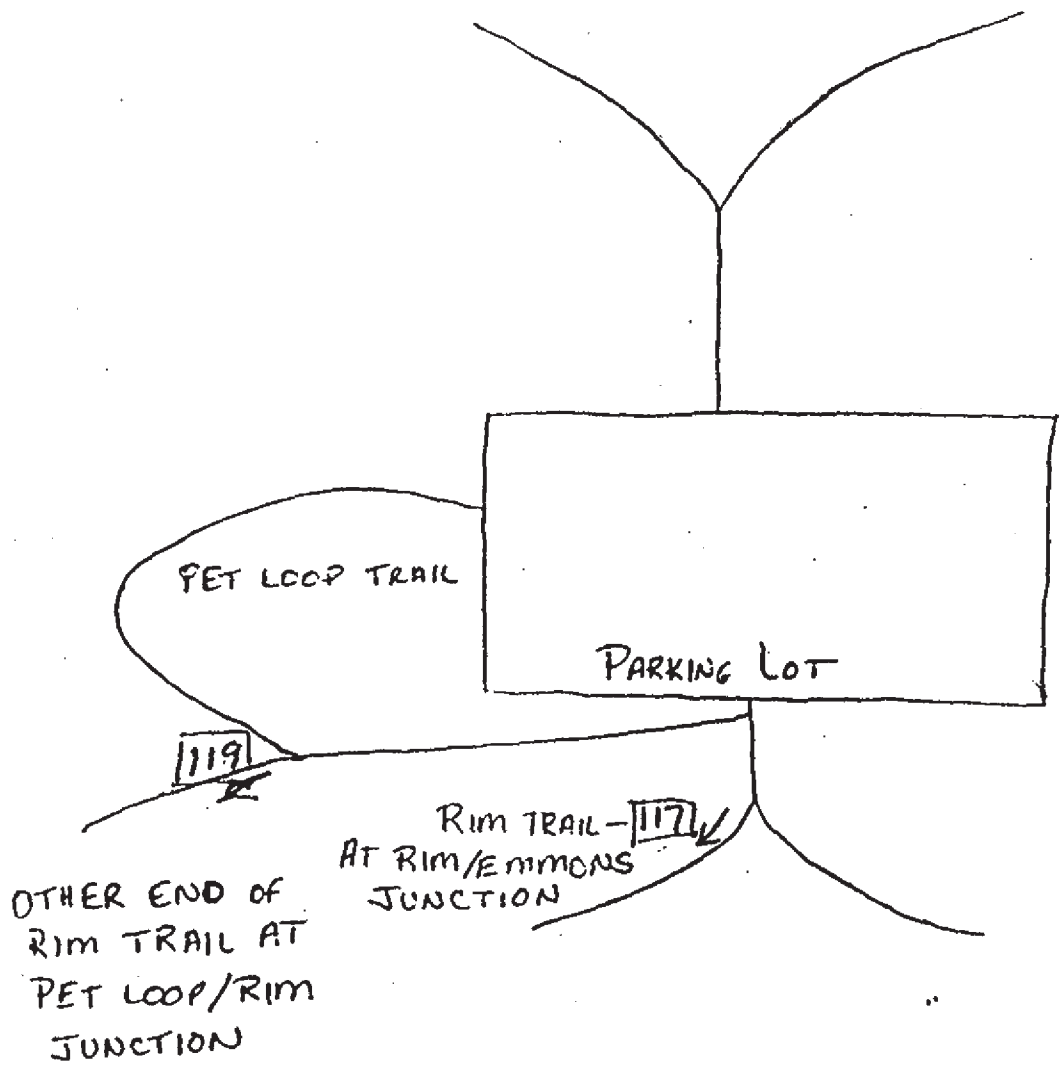
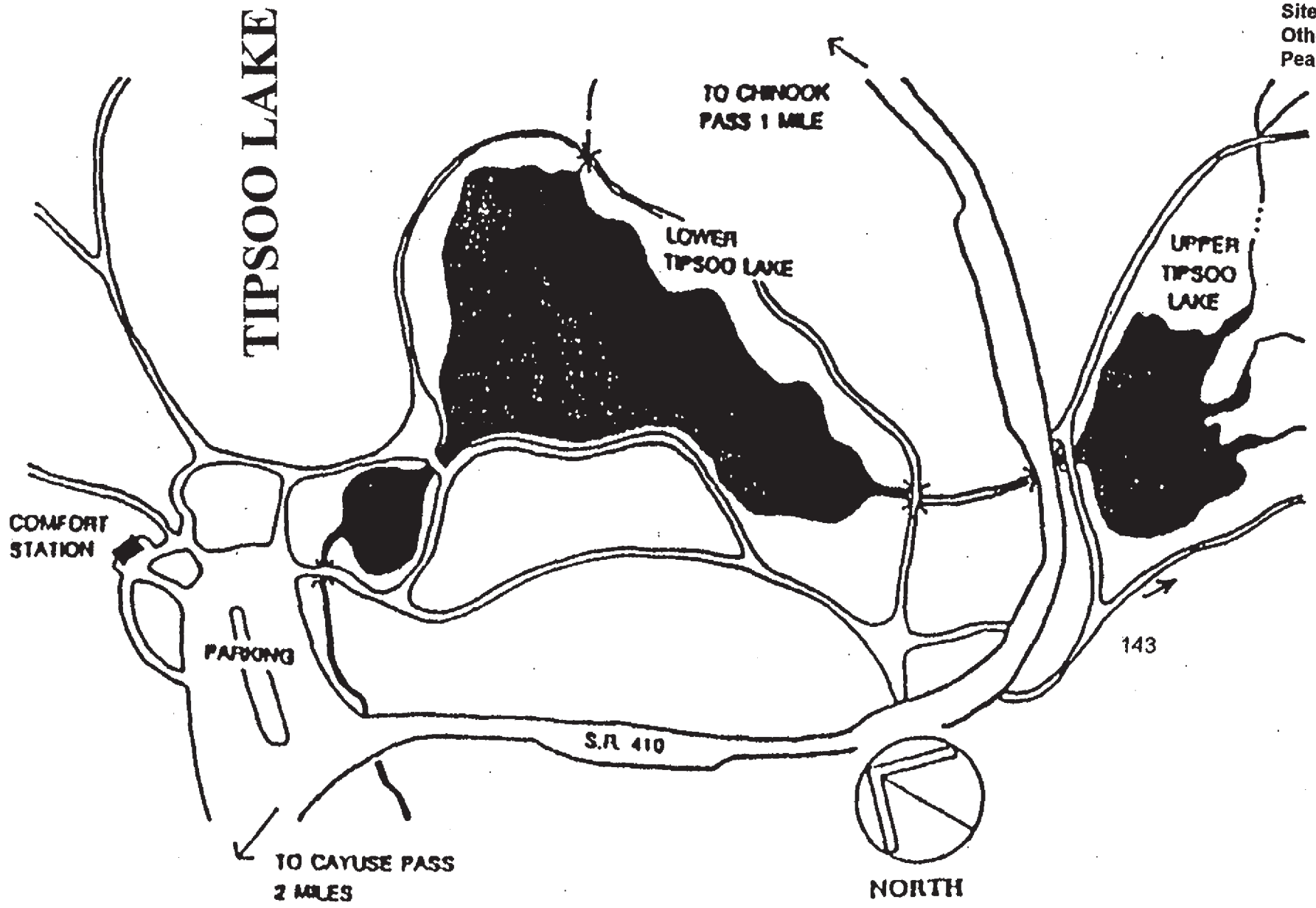


Figure 6.12: Sites included in the Sunrise Rim Trail Loop (Survey Periods 2 & 3).





Site 144 off map.
Other end of Naches
Peak Trail.

Figure 6.13: Sites included in the Naches Peak Loop (Survey Periods 2 & 3).

Visitor use data for loops and webs are presented in pairs of tables below. Data in the upper table represent the total number of visitors entering and leaving each loop or web via the defined access points. The lower table shows similar counts of backpackers.

**Interpreting Data Tables From Survey Period 2:
Loops and Webs**

The pairs of tables below are each laid out in 8 columns of 6 numbers. Each number represents the number of visitors entering or leaving a loop or web during one hour of a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken and the direction of travel.

If I wished to know the number of visitors entering the Paradise Upper Web between 11:00 and 12:00 on August 13 I would first look at the labels above the Paradise Upper Web table to find the two columns of data representing the 13th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 381 visitors entered the web during the hour of interest.

If I wished to know the number of those 381 visitors who were backpackers outfitted for overnight camping I would look at the labels above the second Paradise Upper Web table to find the two columns of data representing the 13th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 7 of the 381 visitors were backpackers.

Recall that all the observation points defining each loop or web are listed above and shown on the maps in Figures 6.10 to 6.13.

Paradise upper web.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	234	16	281	65	222	56	226	20
11 to 12	255	102	381	114	180	51	140	83
12 to 1	250	95	437	195	303	146	167	142
1 to 2	423	281	598	361	304	320	141	134
2 to 3	367	446	671	690	173	360	138	206
3 to 4	231	517	568	663	53	158	136	149

Paradise upper web.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	54	0	37	8	77	17	67	0
11 to 12	1	6	7	4	17	0	0	2
12 to 1	10	4	5	0	16	9	2	31
1 to 2	1	3	4	5	0	2	0	3
2 to 3	0	13	2	5	0	9	6	4
3 to 4	16	7	4	5	3	43	0	0

Paradise lower web.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	11	3	10	9	10	19	3	3
11 to 12	4	1	35	10	7	20	2	1
12 to 1	29	11	19	35	23	9	3	1
1 to 2	22	27	13	22	27	23	22	15
2 to 3	27	36	50	22	19	24	10	2
3 to 4	28	34	13	26	10	14	24	12

Paradise lower web.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	1	0	0	0	0	0	0	0
2 to 3	1	0	0	0	0	0	0	0
3 to 4	0	0	0	0	2	0	6	0

Rampart Ridge Loop and beyond.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	27	0	24	0	5	0	10	3
11 to 12	4	2	8	4	16	6	10	0
12 to 1	7	8	13	4	4	4	3	0
1 to 2	7	5	10	15	8	3	8	2
2 to 3	13	16	6	13	6	6	8	6
3 to 4	2	17	13	6	2	10	4	4

Rampart Ridge Loop and beyond.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	10	0	10	0	4	0	8	0
11 to 12	4	0	7	3	6	0	0	0
12 to 1	4	1	2	0	0	0	3	0
1 to 2	0	0	0	0	6	0	2	2
2 to 3	7	0	3	3	5	1	2	0
3 to 4	2	0	2	3	0	4	4	0

Van Trump Park Loop.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	55	5	31	3	23	0	20	2
11 to 12	65	19	31	7	17	2	16	13
12 to 1	13	11	34	7	18	7	2	14
1 to 2	15	19	42	19	29	28	20	8
2 to 3	15	46	26	22	23	33	8	17
3 to 4	15	34	23	50	11	17	4	20

Van Trump Park Loop.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	10	0	0	0
11 to 12	0	0	0	0	3	0	0	0
12 to 1	0	0	0	0	1	0	0	0
1 to 2	0	0	0	0	2	1	0	0
2 to 3	0	0	0	0	0	3	0	0
3 to 4	0	0	0	0	0	1	0	0

Naches Peak Loop Trail.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	65	18	25	13	6	7
11 to 12	0	0	41	25	38	14	30	2
12 to 1	0	11	122	58	20	12	34	26
1 to 2	15	8	93	108	12	19	17	15
2 to 3	13	16	74	98	9	34	9	29
3 to 4	5	11	55	97	5	32	0	3

Naches Peak Loop Trail.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	3	0	3	4	0	7
11 to 12	0	0	0	0	7	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	4	0	0	0	6	4
2 to 3	0	0	17	3	0	0	0	2
3 to 4	2	0	1	3	0	0	0	0

Sunrise Rim Trail Loop.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	19	3	34	14	22	4	6	2
11 to 12	12	8	36	15	10	14	6	11
12 to 1	13	30	44	23	31	22	7	3
1 to 2	30	48	51	46	17	15	4	8
2 to 3	32	112	66	103	24	59	10	12
3 to 4	51	101	48	141	6	86	11	17

Sunrise Rim Trail Loop.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	4	2	0	2	1	3	1	0
11 to 12	0	0	6	0	2	0	1	2
12 to 1	0	0	0	0	3	1	0	0
1 to 2	0	4	0	0	4	0	2	0
2 to 3	3	0	0	0	0	4	0	0
3 to 4	2	0	2	0	0	6	2	0

Trail of the Shadows Loop.

Visitors entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	45	37	19	23	19	4	16	22
11 to 12	19	25	44	21	33	28	19	8
12 to 1	44	21	41	40	15	16	26	22
1 to 2	42	60	60	43	19	21	22	10
2 to 3	21	21	58	55	39	32	24	22
3 to 4	13	13	27	27	18	12	9	11

Trail of the Shadows Loop.

Backpackers entering loop/web.

TIME	DAY							
	12		13		14		15	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	8	0	2	0	0	0	2	0
11 to 12	8	0	2	1	3	0	0	0
12 to 1	4	1	2	0	0	0	3	0
1 to 2	0	0	0	0	6	0	0	2
2 to 3	6	0	3	1	10	0	4	0
3 to 4	2	0	2	3	0	1	0	2

Data collected: Parking lots.

The visitor use data for parking lots are presented below in sets of three tables. For each parking lot, the first table shows the number of cars present at each time indicated. The second table (consisting of two parts) shows the number of vehicle subtypes present at each time. Finally, the third table shows the weather conditions that were present during data collection.

**Interpreting Data Tables From Survey Period 2:
Parking Lots**

In each set of three tables that follow, the first table is laid out in 4 columns of 7 numbers. Each number represents the number of vehicles parked in a defined parking lot³ at a particular time on a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken.

If I wished to know the number of vehicles in the Kautz Creek parking lot at 11:00 on August 13 I would first look at the labels above the first Kautz Creek table to find the column of data representing the 13th. I would then move down that column to the line labeled "11:00" on the left and find that 18 vehicles were present at the time of interest.

If I wished to know whether any of the 18 vehicles present at that time were RVs I would look at the labels above the second Kautz Creek table to find the 6 columns of data representing the 13th. I would then find the column labeled "RVs", move down that column to the line labeled "11:00" on the left and find that 1 RV was present at the time of interest.

Finally, if I wished to know the weather at the observation site at the time when the RV was present, I could move to the third table, find the column of data under the 13th labeled "weather" and find the weather code "2" recorded at 11:00 indicating that it was sunny and cold at the time when the observation was made.

³ Counts for the following parking lots included vehicles parked in contiguous overflow parking areas: Paradise Inn (along the valley road to turnout at curve), Sunrise Lodge (gravel overflow parking area), and Comet Falls (edges of road).

Kautz Creek Parking Lot/201

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	5	7	7	3
11:00	7	18	12	11
12:00	13	21	12	15
1:00	16	25	16	13
2:00	14	33	7	10
3:00	9	29	8	7
4:00	6	32	7	4

Types of vehicles counted: Site 201

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	5	0	0	0	0	5	7	0	0	0	0	7
11:00	7	0	0	0	0	7	17	1	0	0	0	18
12:00	13	0	0	0	0	13	20	1	0	0	0	21
1:00	16	0	0	0	0	16	25	0	0	0	0	25
2:00	14	0	0	0	0	14	33	0	0	0	0	33
3:00	9	0	0	0	0	9	29	0	0	0	0	29
4:00	6	0	0	0	0	6	32	0	0	0	0	32

(continued)

Types of vehicles counted: Site 201

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	6	1	0	0	0	7	3	0	0	0	0	3
11:00	12	0	0	0	0	12	11	0	0	0	0	11
12:00	12	0	0	0	0	12	15	0	0	0	0	15
1:00	15	1	0	0	0	16	13	0	0	0	0	13
2:00	7	0	0	0	0	7	9	1	0	0	0	10
3:00	7	1	0	0	0	8	7	0	0	0	0	7
4:00	7	0	0	0	0	7	4	0	0	0	0	4

Weather Conditions: Site 201

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	4	0
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Longmire Parking Lot/202

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	27	57	57	60
11:00	66	65	76	59
12:00	70	91	78	71
1:00	91	106	90	75
2:00	96	129	90	78
3:00	77	111	91	75
4:00	70	99	90	63

Types of vehicles counted: Site 202

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	26	0	0	1	0	27	57	0	0	0	0	57
11:00	66	0	0	0	0	66	64	0	0	0	1	65
12:00	70	0	0	0	0	70	86	0	0	0	5	91
1:00	84	3	0	4	0	91	104	0	0	1	1	106
2:00	94	2	0	0	0	96	125	2	0	0	2	129
3:00	75	2	0	0	0	77	110	0	0	0	1	111
4:00	69	1	0	0	0	70	98	1	0	0	0	99

(continued)

Types of vehicles counted: Site 202

Time	DAY											
	14					15						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	55	2	0	0	0	57	59	0	0	1	0	60
11:00	75	1	0	0	0	76	57	1	0	0	1	59
12:00	76	0	0	1	1	78	68	1	1	1	0	71
1:00	88	1	0	0	1	90	73	1	1	0	0	75
2:00	88	1	0	0	1	90	76	1	0	1	0	78
3:00	89	2	0	0	0	91	73	1	0	1	0	75
4:00	89	0	0	1	0	90	62	1	0	0	0	63

Weather Conditions: Site 202

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	4	0
11:00	5	0	2	0	2	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Narada Falls Parking Lot/203

Total vehicles in lot

Time	DAY			
	12	13	14	15
10:00	11	12	10	6
11:00	19	17	17	16
12:00	24	24	29	15
1:00	36	35	31	19
2:00	46	54	58	25
3:00	33	62	33	25
4:00	48	55	15	19

Types of vehicles counted: Site 203

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	10	1	0	0	0	11	8	1	0	0	3	12
11:00	17	1	0	1	0	19	14	1	0	0	2	17
12:00	22	1	1	0	0	24	22	1	1	0	0	24
1:00	36	0	0	0	0	36	34	1	0	0	0	35
2:00	45	0	0	0	1	46	51	3	0	0	0	54
3:00	32	0	1	0	0	33	59	1	0	0	2	62
4:00	48	0	0	0	0	48	55	0	0	0	0	55

(continued)

Types of vehicles counted: Site 203

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	10	0	0	0	0	10	5	1	0	0	0	6
11:00	15	1	1	0	0	17	14	1	1	0	0	16
12:00	27	2	0	0	0	29	15	0	0	0	0	15
1:00	29	1	0	1	0	31	13	2	0	0	4	19
2:00	56	2	0	0	0	58	24	1	0	0	0	25
3:00	32	1	0	0	0	33	22	3	0	0	0	25
4:00	15	0	0	0	0	15	18	1	0	0	0	19

Weather Conditions: Site 203

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Parking Lot/204

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	64	102	77	82
11:00	114	135	126	91
12:00	139	143	144	122
1:00	154	150	149	138
2:00	177	151	145	138
3:00	186	150	129	131
4:00	166	154	139	111

Types of vehicles counted: Site 204

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	63	0	0	1	0	64	101	1	0	0	0	102
11:00	112	1	0	1	0	114	133	1	0	0	1	135
12:00	135	2	1	0	1	139	143	0	0	0	0	143
1:00	151	1	0	1	1	154	145	0	0	0	5	150
2:00	176	0	0	1	0	177	148	0	0	0	3	151
3:00	185	0	0	1	0	186	144	2	0	0	4	150
4:00	166	0	0	0	0	166	151	2	0	0	1	154

(continued)

Types of vehicles counted: Site 204

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	73	2	0	2	0	77	77	2	1	1	1	82
11:00	124	2	0	0	0	126	87	1	1	1	1	91
12:00	140	2	0	2	0	144	118	2	0	1	1	122
1:00	145	2	0	1	1	149	133	3	0	1	1	138
2:00	143	1	0	1	0	145	132	3	0	1	2	138
3:00	126	1	0	2	0	129	127	3	0	1	0	131
4:00	138	0	0	0	1	139	108	1	1	1	0	111

Weather Conditions: Site 204

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Paradise Inn Parking Lot/205

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	256	302	191	184
11:00	290	384	240	211
12:00	352	525	318	243
1:00	450	577	389	304
2:00	477	613	399	311
3:00	490	611	386	297
4:00	403	639	264	258

Types of vehicles counted: Site 205

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	251	4	0	1	0	256	296	3	0	0	3	302
11:00	283	4	1	0	2	290	377	2	1	0	4	384
12:00	340	7	5	0	0	352	507	4	2	3	9	525
1:00	435	8	7	0	0	450	563	4	8	0	2	577
2:00	462	8	6	0	1	477	601	3	6	0	3	613
3:00	480	6	3	0	1	490	602	3	2	1	3	611
4:00	396	5	2	0	0	403	629	4	2	0	4	639

(continued)

Types of vehicles counted: Site 205

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	185	4	1	1	0	191	178	4	2	0	0	184
11:00	230	5	1	4	0	240	202	6	1	2	0	211
12:00	303	10	2	3	0	318	233	7	1	2	0	243
1:00	370	13	5	1	0	389	293	6	2	3	0	304
2:00	384	12	2	1	0	399	301	7	1	1	1	311
3:00	374	9	1	2	0	386	290	6	0	1	0	297
4:00	256	5	1	2	0	264	253	4	0	1	0	258

Weather Conditions: Site 205

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Grove of the Patriarchs Parking Lot/206

Total vehicles in lot

Time	DAY			
	12	13	14	15
10:00	15	17	13	13
11:00	24	26	17	20
12:00	20	28	22	21
1:00	29	32	20	15
2:00	22	32	24	13
3:00	23	28	24	14
4:00	24	30	26	21

Types of vehicles counted: Site 206

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	13	0	0	2	0	15	15	1	0	1	0	17
11:00	22	0	0	2	0	24	25	1	0	0	0	26
12:00	20	0	0	0	0	20	27	1	0	0	0	28
1:00	29	0	0	0	0	29	31	1	0	0	0	32
2:00	22	0	0	0	0	22	31	0	0	1	0	32
3:00	22	0	0	1	0	23	28	0	0	0	0	28
4:00	23	0	0	1	0	24	29	0	0	0	1	30

(continued)

Types of vehicles counted: Site 206

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	10	2	0	1	0	13	11	1	0	1	0	13
11:00	17	0	0	0	0	17	18	0	0	2	0	20
12:00	19	3	0	0	0	22	17	2	0	2	0	21
1:00	20	0	0	0	0	20	13	0	0	2	0	15
2:00	21	3	0	0	0	24	12	0	1	0	0	13
3:00	24	0	0	0	0	24	13	1	0	0	0	14
4:00	26	0	0	0	0	26	21	0	0	0	0	21

Weather Conditions: Site 206

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	2	0	5	1
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Parking Lot/207

Total vehicles in lot

Time	DAY			
	12	13	14	15
10:00	58	110	71	41
11:00	97	194	106	52
12:00	165	292	162	76
1:00	220	404	201	84
2:00	262	443	216	95
3:00	224	436	182	84
4:00	195	382	132	68

Types of vehicles counted: Site 207

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	55	0	0	3	0	58	106	1	0	3	0	110
11:00	94	0	0	3	0	97	189	1	0	2	2	194
12:00	162	1	0	2	0	165	283	1	1	2	5	292
1:00	217	1	0	2	0	220	397	1	0	1	5	404
2:00	257	1	0	3	1	262	438	1	0	1	3	443
3:00	219	2	0	2	1	224	426	0	0	1	9	436
4:00	192	1	1	1	0	195	379	0	0	2	1	382

(continued)

Types of vehicles counted: Site 207

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	68	0	0	3	0	71	35	0	0	5	1	41
11:00	101	1	0	4	0	106	47	1	0	3	1	52
12:00	158	2	0	2	0	162	73	2	1	0	0	76
1:00	192	3	0	6	0	201	81	2	0	1	0	84
2:00	205	3	0	8	0	216	93	1	0	1	0	95
3:00	172	2	0	8	0	182	82	1	0	1	0	84
4:00	123	1	0	8	0	132	65	2	0	1	0	68

Weather Conditions: Site 207

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	4	0	4	0
11:00	4	0	2	0	4	0	4	0
12:00	4	0	2	0	4	0	4	0
1:00	4	0	1	0	4	0	4	1
2:00	4	0	1	0	4	0	4	1
3:00	4	0	1	0	5	0	4	1
4:00	8	0	1	0	5	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Comet Falls Parking Lot/208

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	23	11	15	15
11:00	26	21	23	18
12:00	34	28	29	17
1:00	32	33	29	16
2:00	29	37	32	17
3:00	27	34	25	15
4:00	27	33	21	12

Types of vehicles counted: Site 208

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	23	0	0	0	0	23	11	0	0	0	0	11
11:00	26	0	0	0	0	26	21	0	0	0	0	21
12:00	34	0	0	0	0	34	27	0	0	0	1	28
1:00	32	0	0	0	0	32	32	0	0	0	1	33
2:00	29	0	0	0	0	29	37	0	0	0	0	37
3:00	27	0	0	0	0	27	34	0	0	0	0	34
4:00	27	0	0	0	0	27	33	0	0	0	0	33

(continued)

Types of vehicles counted: Site 208

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	15	0	0	0	0	15	14	0	0	1	0	15
11:00	23	0	0	0	0	23	17	0	0	1	0	18
12:00	29	0	0	0	0	29	16	0	0	1	0	17
1:00	29	0	0	0	0	29	15	0	0	1	0	16
2:00	32	0	0	0	0	32	17	0	0	0	0	17
3:00	25	0	0	0	0	25	15	0	0	0	0	15
4:00	21	0	0	0	0	21	12	0	0	0	0	12

Weather Conditions: Site 208

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	4	0
11:00	5	0	2	0	5	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Westside Road Parking Lot/209

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	8	10	6
11:00	8	16	7	2
12:00	10	22	8	3
1:00	9	21	8	3
2:00	12	24	8	3
3:00	10	25	7	3
4:00	10	19	5	1

Types of vehicles counted: Site 209

Time	DAY											
	12					13						
	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	8	0	0	0	0	8	10	0	0	0	0	10
11:00	7	0	0	1	0	8	16	0	0	0	0	16
12:00	10	0	0	0	0	10	22	0	0	0	0	22
1:00	9	0	0	0	0	9	21	0	0	0	0	21
2:00	12	0	0	0	0	12	24	0	0	0	0	24
3:00	10	0	0	0	0	10	25	0	0	0	0	25
4:00	10	0	0	0	0	10	19	0	0	0	0	19

(continued)

Types of vehicles counted: Site 209

Time	DAY											
	14					15						
	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	6	0	0	0	0	6	1	0	0	0	0	1
11:00	7	0	0	0	0	7	2	0	0	0	0	2
12:00	8	0	0	0	0	8	3	0	0	0	0	3
1:00	8	0	0	0	0	8	3	0	0	0	0	3
2:00	8	0	0	0	0	8	3	0	0	0	0	3
3:00	7	0	0	0	0	7	3	0	0	0	0	3
4:00	5	0	0	0	0	5	1	0	0	0	0	1

Weather Conditions: Site 209

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	4	0
11:00	5	0	2	0	5	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Reflection Lakes Parking Lot/210

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	5	12	13	0
11:00	9	29	13	2
12:00	15	42	20	6
1:00	17	47	23	10
2:00	33	51	21	10
3:00	36	51	14	9
4:00	24	42	1	11

Types of vehicles counted: Site 210

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	5	0	0	0	0	5	12	0	0	0	0	12
11:00	9	0	0	0	0	9	28	1	0	0	0	29
12:00	13	2	0	0	0	15	41	1	0	0	0	42
1:00	16	1	0	0	0	17	47	0	0	0	0	47
2:00	32	1	0	0	0	33	49	1	1	0	0	51
3:00	35	1	0	0	0	36	48	3	0	0	0	51
4:00	23	1	0	0	0	24	41	1	0	0	0	42

(continued)

Types of vehicles counted: Site 210

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	13	0	0	0	0	13	0	0	0	0	0	0
11:00	13	0	0	0	0	13	2	0	0	0	0	2
12:00	20	0	0	0	0	20	6	0	0	0	0	6
1:00	23	0	0	0	0	23	10	0	0	0	0	10
2:00	19	2	0	0	0	21	9	0	1	0	0	10
3:00	14	0	0	0	0	14	9	0	0	0	0	9
4:00	1	0	0	0	0	1	9	2	0	0	0	11

Weather Conditions: Site 210

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Box Canyon Parking Lot/211

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	19	19	11
11:00	21	33	14	15
12:00	26	27	19	14
1:00	19	24	18	20
2:00	32	28	25	14
3:00	25	28	26	11
4:00	28	24	21	10

Types of vehicles counted: Site 211

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	18	0	0	1	0	19	19	0	0	0	0	19
11:00	20	1	0	0	0	21	33	0	0	0	0	33
12:00	26	0	0	0	0	26	25	0	2	0	0	27
1:00	19	0	0	0	0	19	23	1	0	0	0	24
2:00	32	0	0	0	0	32	25	1	0	0	2	28
3:00	25	0	0	0	0	25	27	1	0	0	0	28
4:00	26	2	0	0	0	28	24	0	0	0	0	24

(continued)

Types of vehicles counted: Site 211

Time	DAY											
	14					15						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	9	0	0	2	0	11	10	0	0	1	0	11
11:00	12	2	0	0	0	14	13	2	0	0	0	15
12:00	19	0	0	0	0	19	13	0	1	0	0	14
1:00	18	0	0	0	0	18	20	0	0	0	0	20
2:00	23	2	0	0	0	25	14	0	0	0	0	14
3:00	25	0	1	0	0	26	11	0	0	0	0	11
4:00	21	0	0	0	0	21	10	0	0	0	0	10

Weather Conditions: Site 211

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	2	0	5	1
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Ohanapecosh Parking Lot/212

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	7	3	2	6
11:00	11	9	4	6
12:00	6	5	7	8
1:00	6	9	6	4
2:00	6	5	2	4
3:00	3	12	10	3
4:00	8	4	6	3

Types of vehicles counted: Site 212

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	7	0	0	0	0	7	3	0	0	0	0	3
11:00	11	0	0	0	0	11	7	2	0	0	0	9
12:00	6	0	0	0	0	6	5	0	0	0	0	5
1:00	6	0	0	0	0	6	9	0	0	0	0	9
2:00	5	1	0	0	0	6	4	1	0	0	0	5
3:00	3	0	0	0	0	3	11	1	0	0	0	12
4:00	6	0	0	1	1	8	3	1	0	0	0	4

(continued)

Types of vehicles counted: Site 212

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	2	0	0	0	0	2	6	0	0	0	0	6
11:00	3	1	0	0	0	4	6	0	0	0	0	6
12:00	7	0	0	0	0	7	7	0	0	1	0	8
1:00	5	0	0	1	0	6	4	0	0	0	0	4
2:00	1	1	0	0	0	2	3	1	0	0	0	4
3:00	10	0	0	0	0	10	3	0	0	0	0	3
4:00	6	0	0	0	0	6	3	0	0	0	0	3

Weather Conditions: Site 212

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	2	0	5	1
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Tipsoo Lake Parking Lot/213

Total vehicles in lot

Time	DAY			
	12	13	14	15
10:00	4	7	7	0
11:00	11	26	12	7
12:00	15	48	20	13
1:00	16	51	18	11
2:00	30	76	12	11
3:00	24	59	11	7
4:00	19	48	5	8

Types of vehicles counted: Site 213

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	3	0	0	1	0	4	5	0	0	1	1	7
11:00	6	0	0	1	4	11	24	1	0	1	0	26
12:00	14	0	0	1	0	15	45	2	0	1	0	48
1:00	12	0	0	1	3	16	50	0	0	1	0	51
2:00	26	2	0	2	0	30	75	0	0	1	0	76
3:00	22	1	0	1	0	24	57	1	0	1	0	59
4:00	16	1	0	2	0	19	47	0	0	0	1	48

(continued)

Types of vehicles counted: Site 213

Time	DAY											
	14						15					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	7	0	0	0	0	7	0	0	0	0	0	0
11:00	12	0	0	0	0	12	7	0	0	0	0	7
12:00	20	0	0	0	0	20	13	0	0	0	0	13
1:00	18	0	0	0	0	18	11	0	0	0	0	11
2:00	12	0	0	0	0	12	10	0	0	1	0	11
3:00	11	0	0	0	0	11	6	1	0	0	0	7
4:00	5	0	0	0	0	5	8	0	0	0	0	8

Weather Conditions: Site 213

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	5	1
11:00	5	0	2	0	2	0	5	1
12:00	5	0	2	0	2	0	5	1
1:00	4	0	1	0	5	1	4	0
2:00	4	0	1	0	5	1	4	0
3:00	8	0	1	0	5	1	4	0
4:00	8	0	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Tipsoo Lake Pull-Offs/214

Total vehicles in lot

Time	DAY			
	12	13	14	15
	10:00	6	7	4	0
11:00	7	2	3	1
12:00	0	5	8	1
1:00	1	13	4	3
2:00	2	17	6	4
3:00	4	18	0	1
4:00	2	16	0	1

Types of vehicles counted: Site 214

Time	DAY											
	12						13					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	6	0	0	0	0	6	7	0	0	0	0	7
11:00	7	0	0	0	0	7	1	0	0	1	0	2
12:00	0	0	0	0	0	0	4	0	0	1	0	5
1:00	1	0	0	0	0	1	12	0	0	1	0	13
2:00	2	0	0	0	0	2	16	0	0	1	0	17
3:00	4	0	0	0	0	4	17	0	0	1	0	18
4:00	2	0	0	0	0	2	14	1	0	1	0	16

(continued)

Types of vehicles counted: Site 214

Time	DAY											
	14					15						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	4	0	0	0	0	4	0	0	0	0	0	0
11:00	2	0	0	0	1	3	1	0	0	0	0	1
12:00	8	0	0	0	0	8	1	0	0	0	0	1
1:00	4	0	0	0	0	4	3	0	0	0	0	3
2:00	6	0	0	0	0	6	4	0	0	0	0	4
3:00	0	0	0	0	0	0	1	0	0	0	0	1
4:00	0	0	0	0	0	0	1	0	0	0	0	1

Weather Conditions: Site 214

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	5	1
11:00	5	0	2	0	2	0	5	1
12:00	5	0	2	0	2	0	5	1
1:00	4	0	1	0	5	1	4	0
2:00	4	0	1	0	5	1	4	0
3:00	8	0	1	0	5	1	4	0
4:00	8	0	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data collected: Facilities.

The visitor use data for facilities are presented below in pairs of tables. For each facility, the upper table shows the number of visitors present at each time indicated and the lower shows the weather conditions that were present during data collection.

**Interpreting Data Tables From Survey Period 2:
Facilities**

In each pair of tables that follow, the first table is laid out in 4 columns of 7 numbers. Each number represents the number of visitors present in a facility or specified sub-section of a facility at a particular time on a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken.

If I wished to know the number of visitors in the Longmire Museum at 11:00 on August 13 I would first look at the labels above the first Longmire Museum table to find the column of data representing the 13th. I would then move down that column to the line labeled "11:00" on the left and find that 13 visitors were present at the time of interest.

If I wished to know the weather at the observation site at the time when those 13 visitors were present, I could move to the second table, find the column of data under the 13th labeled "weather" and find the weather code "2" recorded at 11:00 indicating that it was sunny and cold at the time when the observation was made.

Longmire Museum/301

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
10:00	13	9	0	6
11:00	11	13	3	4
12:00	10	14	6	8
1:00	8	18	11	6
2:00	12	5	14	14
3:00	10	18	14	3
4:00	6	23	8	2

Longmire Museum/301

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	4	0
11:00	5	0	2	0	5	0	4	0
12:00	5	0	2	0	5	0	4	0
1:00	5	0	1	0	5	0	4	0
2:00	5	0	1	0	5	0	4	0
3:00	5	0	1	0	5	0	5	0
4:00	5	0	1	0	5	0	5	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Lobby/302

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
	10:00	19	14	14
11:00	30	19	33	11
12:00	76	65	64	38
1:00	72	52	32	41
2:00	51	66	45	24
3:00	89	66	64	35
4:00	96	81	64	31

Jackson Visitor Center Lobby/302

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Slide Show/304

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
10:00	2	10	8	23
11:00	26	23	17	12
12:00	31	9	14	31
1:00	28	44	.	24
2:00	84	34	51	36
3:00	74	37	90	48
4:00	64	47	43	15

Jackson Visitor Center Slide Show/304

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

On August 14th, data are missing because there was no showing at 1:00.

Sunrise Visitor Center/306

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
	10:00	6	18	18	9
11:00	19	28	10	18
12:00	24	57	21	19
1:00	26	82	13	38
2:00	22	85	18	28
3:00	48	79	11	28
4:00	57	100	.	14

Sunrise Visitor Center/306

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	4	0	4	0
11:00	4	0	2	0	4	0	4	0
12:00	4	0	2	0	4	0	4	0
1:00	4	0	1	0	4	0	4	1
2:00	4	0	1	0	4	0	4	1
3:00	4	0	1	0	5	0	4	1
4:00	8	0	1	0	5	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

People who were on the observation deck outside are included in the count that was entered into the SPSS file. The data collection sheets show the number of people inside the visitor vs. outside.

On August 14, the visitor center was closed after the 12:00 count due to a function concerning the death of two climbing rangers. The 1:00 through 4:00 counts are for the outside observation deck only.

"Dance Floor" past Alta Vista loop/307

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
10:00	1	5	1	2
11:00	4	1	6	4
12:00	14	5	3	6
1:00	8	24	11	9
2:00	7	30	11	15
3:00	24	22	6	2
4:00	11	12	0	0

"Dance Floor" past Alta Vista loop/307

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Exhibit Rooms/308

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
	10:00	7	8	4	15
11:00	42	28	16	13
12:00	40	19	39	31
1:00	56	51	36	38
2:00	68	60	72	47
3:00	62	41	47	37
4:00	50	46	47	20

Jackson Visitor Center Exhibit Rooms/308

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	1	0	4	0
11:00	7	0	2	0	1	0	4	0
12:00	7	0	2	0	1	0	4	0
1:00	3	0	1	1	5	0	3	0
2:00	3	0	1	1	5	0	3	0
3:00	3	0	1	1	5	0	3	0
4:00	3	0	1	1	5	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Ohanapecosh Visitor Center/309

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
10:00	22	7	0	11
11:00	23	19	10	6
12:00	24	17	6	5
1:00	18	5	10	5
2:00	19	7	11	8
3:00	9	17	7	6
4:00	18	6	6	12

Ohanapecosh Visitor Center/309

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	2	0	5	1
11:00	4	0	2	0	2	0	5	1
12:00	4	0	2	0	2	0	5	1
1:00	2	1	1	0	5	1	4	0
2:00	2	1	1	0	5	1	4	0
3:00	2	1	1	0	5	1	4	0
4:00	2	1	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Tipsoo Lake Trail/190

PEOPLE IN FACILITIES

Time	DAY			
	12	13	14	15
	10:00	14	11	2	0
11:00	16	9	6	0
12:00	26	35	15	9
1:00	12	28	7	0
2:00	28	34	0	13
3:00	16	34	3	3
4:00	9	32	8	10

Tipsoo Lake Trail/190

Weather and wind conditions outside observed facility.

Time	DAY							
	12		13		14		15	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	5	0	2	0	2	0	5	1
11:00	5	0	2	0	2	0	5	1
12:00	5	0	2	0	2	0	5	1
1:00	4	0	1	0	5	1	4	0
2:00	4	0	1	0	5	1	4	0
3:00	8	0	1	0	5	1	4	0
4:00	8	0	1	0	5	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

VII. SURVEY PERIOD 3: AUGUST 26 - 29

Survey work-force.

During the third survey period a crew of 43 observers collected data at 73 sites. Observers were organized into four groups. The first (and largest) group camped at Cougar Rock Campground and collected data at sites located primarily between Cougar Rock and Reflection Lakes. The second group camped at White River Campground and collected data at sites located in the Northeast quadrant of the park, primarily in the Sunrise area. The third group of five survey workers consisted primarily of friends or relatives of park employees. These workers did not camp at the park. They collected data at sites between the Nisqually entrance and Longmire with most sites in the Longmire area. Finally, the fourth group camped at Ohanapecosh Campground and collected data at sites located in the Southeast quadrant of the park.

Surveyed sites.

The 73 survey sites included 48 trail sites, 14 parking lots, and 11 facilities. Table 7.1 shows the site names as well as the codes used to identify them in the database. It also serves as a table of contents useful in finding specific tables of visitor use data.

Table 7.1: Survey sites and page numbers of corresponding data tables (Survey Period 3).

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Refer to Figures 6.1 to 6.9 in the previous section describing survey period 2 to see the location of the trail sites with arrows indicating the direction that was defined as "entering" the trail.

Limitations of the data collected during the third survey period.

In addition to the general survey limitations discussed in the *General Survey Design* section there were several factors that limit the generalizability of the data collected in survey period 3. As in survey period 2, the Jackson Visitor Center was undergoing repairs to the roof. The observation deck inside the visitor center was closed and some visitors stated that the scaffolding and presence of construction workers had led them to believe that the entire center was closed.

In addition, on August 26th, no visitor admission was charged. Instead, volunteers collected donations for the Mount Rainier NOCA OLA fund.

Data collected: Trail sites.

The visitor use data for trail sites are presented below in sets of three tables. For each trail site, the first table shows the cumulative counts of all visitors entering and leaving during each observed hour. The second table shows similar counts for backpackers. Finally, the third table shows the weather conditions that were present during data collection.¹

¹ For "snapshot" counts of visitors present at the Tipsoo Lake Trail, the "Dance Floor" on the Skyline Trail North of Alta Vista, and the Glacier Basin and Lake Eleanor campgrounds, see the section below entitled Data Collected: Facilities. "Snapshot" counts were collected in those areas because they were well defined areas in which management might wish to know the number of people who were present at one time.

Interpreting Data Tables From Survey Period 3: Trail Sites

In the sets of three tables that follow, the first table is laid out in 8 columns of 6 numbers. Each number represents the number of visitors passing a defined point on a trail while moving in a specified direction (either "in" or "out" on the trail) during one hour of a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken and the direction of travel.

If I wished to know the number of visitors hiking North on the Westside road between 11:00 and 12:00 on August 27 I would first look at the labels above the first Westside road table to find the two columns of data representing the 27th. I know that the Northward direction on the Westside road moves away from the parking lot and other developed facilities and can therefore conclude that it is defined as the "in" direction. However, if I have any confusion about the direction defined as "in" I can refer to the site maps in Figures 6.1 to 6.9, find the Westside road observation site and observe the arrow showing which direction is defined as "in". In this case, Northward is the "in" direction, so I move down that column to the line labeled "11 to 12" on the left and find that 9 visitors passed the observation site going North during the hour of interest.

If I wished to know the number of those 9 visitors who were backpackers outfitted for overnight camping I would look at the labels above the second Westside road table to find the two columns of data representing the 27th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 2 of the 9 visitors were backpackers.

Finally, if I wished to know the weather at the observation site during the hour when those 9 visitors passed, I could move to the third table, find the column of data under the 27th labeled "weather" and find the weather codes "1" recorded at 11:00 and 12:00. Looking at the code list below the table I conclude that it was sunny and warm during the hour of interest.

Westside Road/101

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	8	1	14	5	2	2	1	1
11 to 12	8	3	9	0	2	2	6	2
12 to 1	4	3	8	2	0	1	0	0
1 to 2	3	1	6	4	0	0	1	0
2 to 3	0	2	1	8	0	0	0	3
3 to 4	0	0	2	4	0	3	0	0

Westside Road/101

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	6	1	6	0	1	2	0	1
11 to 12	8	1	2	0	2	2	6	1
12 to 1	1	2	6	2	0	1	0	0
1 to 2	0	0	2	3	0	0	0	0
2 to 3	0	2	1	4	0	0	0	0
3 to 4	0	0	0	2	0	3	0	0

Westside Road/101

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	1	0	5	0
11:00	1	0	1	0	2	0	5	0
12:00	1	0	1	0	2	0	5	0
1:00	1	0	1	0	1	0	4	0
2:00	1	0	1	0	1	0	3	0
3:00	9	0	1	0	1	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Beginning of the Trail of Shadows/102

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	27	3	30	18	10	3	11	9
11 to 12	34	24	35	15	4	6	18	8
12 to 1	48	44	58	50	9	5	16	13
1 to 2	33	31	46	21	15	7	19	12
2 to 3	30	20	56	55	10	10	26	18
3 to 4	59	53	15	27	16	2	12	16

Beginning of the Trail of Shadows/102

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	8	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	2	2	0	0	0	0	1	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	4	0	0	0	0	0	0	0
3 to 4	0	0	2	2	0	0	0	0

Beginning of the Trail of Shadows/102

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	1	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	3	0
12:00	1	0	1	0	1	0	4	0
1:00	1	0	1	0	1	0	4	0
2:00	1	0	1	0	1	0	4	0
3:00	1	0	9	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rampart Ridge Trail at Junction of Trail of Shadows/104

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	9	0	3	1	0	0	3	0
11 to 12	2	2	12	0	2	0	2	0
12 to 1	12	0	14	0	0	0	7	2
1 to 2	13	4	7	4	0	1	2	1
2 to 3	2	1	14	10	0	0	2	3
3 to 4	0	0	4	7	1	0	0	0

Rampart Ridge Trail at Junction of Trail of Shadows/104

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	1	0
11 to 12	0	0	2	0	2	0	0	0
12 to 1	0	0	1	0	0	0	1	0
1 to 2	4	0	1	0	0	1	0	0
2 to 3	1	0	2	0	0	0	0	1
3 to 4	0	0	3	1	0	0	0	0

Rampart Ridge Trail at Junction of Trail of Shadows/104

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	2	0	5	0
11:00	2	0	1	0	2	0	4	0
12:00	2	0	1	0	2	0	4	0
1:00	2	0	1	0	1	0	4	0
2:00	4	0	1	0	1	0	4	0
3:00	4	0	1	0	1	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rampart Ridge at junction of Wonderland to Paradise/105

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	7	1	4	2	1	7	0	1
11 to 12	10	3	1	2	0	0	0	0
12 to 1	1	1	0	0	0	0	1	2
1 to 2	1	0	0	4	0	3	0	2
2 to 3	4	2	2	14	0	6	0	2
3 to 4	0	2	1	9	1	2	4	8

Rampart Ridge at junction of Wonderland to Paradise/105

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	4	0	2	2	0	0	0	0
11 to 12	6	2	1	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	1
1 to 2	0	0	4	0	0	0	0	0
2 to 3	2	2	1	0	5	0	0	0
3 to 4	0	0	0	0	0	0	0	4

Rampart Ridge at junction of Wonderland to Paradise/105

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	2	0	4	0
11:00	2	0	1	0	2	0	4	0
12:00	2	0	1	0	2	0	4	0
1:00	2	0	1	0	1	0	4	0
2:00	3	0	1	0	1	0	3	0
3:00	3	0	1	0	1	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland Tr. to Paradise at junction of Rampart Ridge/106
 Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	2	2	0	8	0	1	0
11 to 12	0	0	5	0	0	0	0	1
12 to 1	11	10	0	7	0	2	1	3
1 to 2	9	0	2	2	2	0	2	0
2 to 3	8	19	2	5	0	5	4	4
3 to 4	2	9	6	5	2	0	2	6

Wonderland Tr. to Paradise at junction of Rampart Ridge/106
 Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	2	0	0	0	1	0
11 to 12	0	0	1	0	0	0	0	0
12 to 1	2	0	0	1	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	3	0	0	0	0	0	3
3 to 4	0	0	0	0	0	0	1	0

Wonderland Tr. to Paradise at junction of Rampart Ridge/106
 Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	2	0	4	0
11:00	2	0	1	0	2	0	4	0
12:00	2	0	1	0	2	0	4	0
1:00	2	0	1	0	1	0	4	0
2:00	2	0	1	0	1	0	3	0
3:00	2	0	1	0	1	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Eagle Peak Trail/107

Visitors passing observation site.

	DAY			
	27		28	
	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum
TIME				
10 to 11	0	0	0	0
11 to 12	5	0	0	0
12 to 1	3	1	0	0
1 to 2	0	0	0	0
2 to 3	0	2	0	0
3 to 4	0	3	.	.

Eagle Peak Trail/107

Backpackers passing observation site.

	DAY			
	27		28	
	IN	OUT	IN	OUT
TIME				
10 to 11
11 to 12
12 to 1
1 to 2
2 to 3
3 to 4

Eagle Peak Trail/107

Weather and wind conditions at observation site.

	DAY			
	27		28	
	WEATHER	WIND	WEATHER	WIND
TIME				
10:00	2	.	3	.
11:00	3	.	3	.
12:00	3	.	3	.
1:00	2	.	1	.
2:00	3	.	1	.
3:00	3	.	.	.

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Comet Falls Trail/108

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	27	0	13	3	5	0	11	0
11 to 12	23	5	26	2	8	2	11	2
12 to 1	23	12	24	11	23	0	13	14
1 to 2	31	10	39	13	23	10	10	7
2 to 3	15	21	37	20	22	18	13	16
3 to 4	22	40	10	16	0	27	8	19

Comet Falls Trail/108

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Comet Falls Trail/108

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	4	0	1	0	3	0	5	0
11:00	2	0	1	0	3	0	4	0
12:00	1	0	3	0	3	0	4	0
1:00	1	0	1	0	3	0	4	0
2:00	3	0	1	0	3	0	4	0
3:00	3	0	3	0	3	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Dead Horse Trail at junction of Nisqually vista/109

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	51	4	24	3	38	3	1	2
11 to 12	32	31	20	0	10	2	12	0
12 to 1	46	19	32	14	12	4	4	3
1 to 2	49	14	63	27	23	5	46	16
2 to 3	38	39	30	57	7	17	16	21
3 to 4	35	22	18	41	6	8	9	15

Dead Horse Trail at junction of Nisqually vista/109

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	1	0	0	0	0	0	0	0
1 to 2	0	0	0	0	1	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Dead Horse Trail at junction of Nisqually vista/109

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	4	0	2	0	4	0	5	0
11:00	2	0	2	0	4	0	5	0
12:00	2	0	2	0	4	0	7	0
1:00	2	0	2	0	4	0	7	0
2:00	2	0	1	0	4	0	7	0
3:00	4	0	1	0	4	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Nisqually Vista loop at junction of Dead Horse trail/110

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	23	16	31	16	36	44	2	1
11 to 12	39	24	45	28	33	16	0	0
12 to 1	28	38	51	35	40	41	5	2
1 to 2	43	25	44	49	39	14	20	10
2 to 3	85	94	46	63	25	51	36	31
3 to 4	42	62	70	44	44	29	50	38

Nisqually Vista loop at junction of Dead Horse trail/110

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Nisqually Vista loop at junction of Dead Horse trail/110

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	4	0	5	0
11:00	2	0	2	0	4	0	5	0
12:00	2	0	2	0	4	0	7	0
1:00	2	0	2	0	4	0	7	0
2:00	2	1	1	0	4	0	7	0
3:00	4	1	1	0	4	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Beginning of Alta Vista Trail/111

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	4	7	8	7	19	5	5	2
11 to 12	43	18	35	22	8	3	0	0
12 to 1	59	25	61	47	17	13	10	4
1 to 2	55	41	115	56	36	50	13	14
2 to 3	55	82	115	135	56	41	17	27
3 to 4	154	163	103	89	43	68	33	48

Beginning of Alta Vista Trail/111

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	2	0	0	0	0	0	0	0
1 to 2	2	0	0	0	0	0	0	0
2 to 3	0	0	0	2	0	0	0	0
3 to 4	0	1	0	0	0	0	0	0

Beginning of Alta Vista Trail/111

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	1	0	2	0	5	1
11:00	2	0	1	0	1	0	5	0
12:00	2	0	1	0	3	0	4	1
1:00	1	0	1	0	3	0	4	1
2:00	3	0	1	0	3	0	4	1
3:00	4	0	1	0	4	0	4	1

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Skyline at junction of Trail to Dead Horse/112

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	175	13	170	18	101	7	72	0
11 to 12	133	34	169	34	76	8	22	6
12 to 1	214	51	76	190	54	24	9	1
1 to 2	218	125	120	253	127	48	48	24
2 to 3	177	146	259	246	120	70	66	25
3 to 4	204	235	254	265	115	161	26	61

Skyline at junction of Trail to Dead Horse/112

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	57	0	46	2	37	0	42	0
11 to 12	12	3	4	0	13	2	0	0
12 to 1	1	0	0	0	11	5	0	0
1 to 2	5	0	0	3	0	4	0	2
2 to 3	0	2	0	2	0	0	0	3
3 to 4	2	15	0	0	0	9	0	0

Skyline at junction of Trail to Dead Horse/112

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	10:00	7	1	1	0	1	0	5	0
11:00	1	0	1	0	3	0	5	0
12:00	1	0	1	0	3	0	7	0
1:00	1	0	1	0	3	0	7	1
2:00	3	0	1	0	3	0	7	0
3:00	4	0	1	0	4	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail to Dead Horse at junction of Skyline/113

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	11	0	10	20	20	0	2	0
11 to 12	29	9	32	7	17	7	2	0
12 to 1	43	22	49	19	9	11	12	4
1 to 2	10	35	98	50	19	8	8	10
2 to 3	63	53	51	76	26	36	21	8
3 to 4	40	60	98	81	21	25	12	5

Trail to Dead Horse at junction of Skyline/113

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	2	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	5	0	0	0	0	0	0

Trail to Dead Horse at junction of Skyline/113

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	7	0	1	0	1	0	5	0
11:00	1	0	1	0	3	0	5	0
12:00	1	0	1	0	3	0	7	0
1:00	1	0	1	0	3	0	7	1
2:00	3	0	1	0	3	0	7	0
3:00	4	0	1	0	4	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lakes Trail/114

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	1	0	2	0	0	0
11 to 12	3	1	0	3	1	0	7	1
12 to 1	3	1	2	2	0	4	0	2
1 to 2	6	1	6	0	2	1	3	1
2 to 3	4	19	8	1	1	10	1	0
3 to 4	8	13	2	5	4	0	6	1

Lakes Trail/114

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	1	1	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	1	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	2	0	0	0	0	0	0

Lakes Trail/114

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	1	0	5	0
11:00	1	0	1	0	3	0	7	0
12:00	1	0	1	0	3	0	7	0
1:00	1	0	1	0	1	0	4	0
2:00	1	0	1	0	1	0	4	0
3:00	3	0	1	0	4	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail across from parking lot at Grove of Patriarchs/115

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	15	2	2	0	1	0	3
11 to 12	0	15	4	8	3	0	3	0
12 to 1	10	2	0	0	3	16	1	3
1 to 2	16	20	9	4	8	4	7	6
2 to 3	16	5	8	9	2	4	8	1
3 to 4	6	10	8	2	2	3	0	4

Trail across from parking lot at Grove of Patriarchs/115

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	1	1	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Trail across from parking lot at Grove of Patriarchs/115

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	1	0	1	0	1	0	4	0
11:00	1	0	1	0	1	0	4	0
12:00	1	0	1	0	1	0	4	0
1:00	1	0	1	0	3	0	4	0
2:00	1	0	1	0	1	0	4	0
3:00	1	0	1	0	3	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Grove of the Patriarchs/116

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	36	15	46	23	12	11	56	21
11 to 12	78	47	28	42	50	24	30	43
12 to 1	40	59	74	41	34	46	26	47
1 to 2	89	49	68	73	34	34	35	24
2 to 3	43	75	59	44	39	27	39	34
3 to 4	79	72	46	59	52	51	26	48

Grove of the Patriarchs/116

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	1	0	0	0	0	1	0	0
12 to 1	2	0	0	0	0	0	0	3
1 to 2	0	3	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Grove of the Patriarchs/116

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	2	0	4	0
11:00	2	0	1	0	2	0	4	0
12:00	2	0	1	0	2	0	4	0
1:00	2	0	1	0	2	0	4	0
2:00	2	0	1	0	2	0	4	0
3:00	2	0	1	0	2	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Rim Trail at Rim/Emmons junction/117

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	17	1	6	2	5	3	5	2
11 to 12	11	15	38	14	7	5	6	1
12 to 1	48	14	18	4	3	0	1	3
1 to 2	34	29	37	40	25	14	4	11
2 to 3	51	40	35	47	12	9	11	5
3 to 4	12	28	13	51	18	19	13	19

Rim Trail at Rim/Emmons junction/117

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	3	1	0	0	0	1	2	0
11 to 12	0	5	3	2	0	0	0	0
12 to 1	4	0	0	0	0	0	0	0
1 to 2	0	0	0	3	1	0	0	0
2 to 3	2	0	0	0	0	0	0	0
3 to 4	0	0	3	0	2	1	2	0

Rim Trail at Rim/Emmons junction/117

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	10:00	7	0	1	0	4	0	3	0
11:00	7	0	1	0	4	0	3	0
12:00	3	0	1	0	3	0	4	0
1:00	3	0	1	0	3	0	4	0
2:00	3	0	1	0	3	0	4	0
3:00	3	0	1	0	3	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Emmons vista trail at Rim/Emmons junction/118

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	15	13	8	4	10	5	0	0
11 to 12	12	4	30	24	10	11	1	1
12 to 1	9	11	9	10	17	14	2	2
1 to 2	14	14	30	19	10	10	1	1
2 to 3	17	24	36	29	5	12	2	2
3 to 4	17	15	24	36	16	11	19	14

Emmons vista trail at Rim/Emmons junction/118

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Emmons vista trail at Rim/Emmons junction/118

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	1	0	4	0	3	0
11:00	7	0	1	0	4	0	3	0
12:00	3	0	1	0	3	0	4	0
1:00	3	0	1	0	3	0	4	0
2:00	3	0	1	0	3	0	4	0
3:00	3	0	1	0	3	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Other end of Rim trail at junction of Pet Loop trail/119
 Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	5	0	1	0	2	1	4
11 to 12	8	5	8	2	2	3	0	3
12 to 1	8	17	7	21	0	2	0	8
1 to 2	6	7	12	20	0	17	7	3
2 to 3	12	91	5	35	2	9	1	8
3 to 4	6	54	29	61	6	9	0	9

Other end of Rim trail at junction of Pet Loop trail/119
 Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	2	0	0	0	0	0	0
11 to 12	0	3	0	0	0	0	0	0
12 to 1	0	0	0	4	0	0	0	0
1 to 2	0	2	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Other end of Rim trail at junction of Pet Loop trail/119
 Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	4	0	1	0	4	0	7	0
11:00	4	0	1	0	4	0	7	0
12:00	2	0	4	0	4	0	5	0
1:00	2	0	1	0	2	0	4	0
2:00	4	0	1	0	2	0	4	0
3:00	4	0	1	0	2	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Nature Trail at Sunrise/121

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	74	4	72	13	8	3	8	3
11 to 12	109	6	127	12	32	6	21	4
12 to 1	136	22	86	23	58	8	13	8
1 to 2	114	38	139	51	45	28	36	12
2 to 3	104	82	158	110	58	43	27	10
3 to 4	121	102	75	117	28	47	30	24

Nature Trail at Sunrise/121

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	3	0	0	0	2
11 to 12	2	0	2	4	0	5	0	0
12 to 1	0	0	0	4	0	2	0	0
1 to 2	2	0	0	8	3	2	0	1
2 to 3	5	2	0	0	0	2	0	0
3 to 4	2	0	1	4	0	0	0	0

Nature Trail at Sunrise/121

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	1	0	4	0	7	0
11:00	3	0	2	0	4	0	7	0
12:00	3	0	1	0	1	0	5	0
1:00	3	0	1	0	4	1	4	0
2:00	3	0	1	0	4	1	4	0
3:00	3	0	1	0	4	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Narada Falls trail/123

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	83	65	83	56	54	57	20	13
11 to 12	182	149	141	123	76	67	29	35
12 to 1	214	225	151	140	104	106	67	56
1 to 2	222	210	157	187	126	102	63	85
2 to 3	198	211	205	175	53	49	61	62
3 to 4	135	188	205	208	110	112	44	53

Narada Falls trail/123

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	0	0	0	0	1	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	1	0	0	0	1	0
3 to 4	0	0	0	0	0	0	0	0

Narada Falls trail/123

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	10:00	2	0	1	0	2	0	5	0
11:00	1	0	2	0	2	0	5	0
12:00	1	0	2	0	2	0	5	0
1:00	1	0	1	0	2	0	5	0
2:00	3	0	1	0	2	0	4	0
3:00	3	0	1	0	2	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Kautz Creek Trail/126

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	10	2	4	11	1	0
11 to 12	20	2	17	5	9	6	8	0
12 to 1	3	12	12	13	0	4	0	5
1 to 2	2	0	12	10	0	4	2	0
2 to 3	12	9	14	5	2	3	4	7
3 to 4	3	9	2	17	0	0	5	5

Kautz Creek Trail/126

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11
11 to 12
12 to 1
1 to 2
2 to 3
3 to 4

Kautz Creek Trail/126

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	2	0	2	0	5	0
11:00	2	0	2	0	2	0	3	0
12:00	1	0	3	0	3	0	3	0
1:00	1	0	3	0	3	0	3	0
2:00	3	0	1	0	3	0	3	0
3:00	3	0	1	0	3	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland trail/Trail to Van Trump Park junction/127

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	3	2	0	0	7	0	1
11 to 12	10	9	6	0	1	5	5	0
12 to 1	7	4	0	4	2	4	0	5
1 to 2	2	2	0	2	2	7	0	0
2 to 3	1	6	2	6	2	0	2	12
3 to 4	2	15	1	10	1	4	0	2

Wonderland trail/Trail to Van Trump Park junction/127

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	10 to 11	0	2	0	0	0	5	1	0
11 to 12	4	0	2	0	0	5	2	0
12 to 1	2	0	0	3	0	0	2	0
1 to 2	2	2	0	2	0	7	0	0
2 to 3	0	0	0	0	0	0	0	2
3 to 4	0	0	0	0	1	0	0	0

Wonderland trail/Trail to Van Trump Park junction/127

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	5	0
12:00	1	0	1	0	3	0	5	0
1:00	3	0	3	0	3	0	5	0
2:00	3	0	3	0	1	0	4	0
3:00	3	0	3	0	1	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail to Van Trump Park/Wonderland Trail junction/128

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	8	0	0	0	2	0	0	0
12 to 1	6	0	0	0	0	0	3	0
1 to 2	1	0	0	3	0	0	0	0
2 to 3	0	0	0	2	0	0	0	0
3 to 4	0	0	2	0	0	0	0	0

Trail to Van Trump Park/Wonderland Trail junction/128

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	2	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Trail to Van Trump Park/Wonderland Trail junction/128

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	9	0	5	0
11:00	1	0	1	0	9	0	5	0
12:00	1	0	1	0	9	0	5	0
1:00	3	0	3	0	9	0	5	0
2:00	3	0	3	0	9	0	4	0
3:00	3	0	3	0	9	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Van Trump Park: to end of maintained trail/129

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	1	0	0	0
11 to 12	10	0	15	0	0	0	6	0
12 to 1	4	3	1	8	2	1	0	6
1 to 2	19	4	7	8	2	2	2	0
2 to 3	6	15	9	4	0	2	7	7
3 to 4	9	10	22	7	0	0	1	0

Van Trump Park: to end of maintained trail/129

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	2	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Van Trump Park: to end of maintained trail/129

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	3	0	1	0	5	0
11:00	4	0	3	0	1	0	5	0
12:00	1	0	1	0	3	0	7	0
1:00	1	0	1	0	1	0	7	0
2:00	4	0	1	0	1	0	7	0
3:00	4	0	1	0	1	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Skyline trail past "Dance floor"/130

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	116	0	109	8	87	8	62	0
11 to 12	152	8	88	19	56	17	29	5
12 to 1	115	32	134	65	57	26	16	5
1 to 2	157	58	152	80	93	51	38	14
2 to 3	100	85	145	154	93	38	42	24
3 to 4	94	136	132	165	63	106	37	72

Skyline trail past "Dance floor"/130

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	67	0	82	0	35	0	29	0
11 to 12	53	0	4	2	1	2	10	1
12 to 1	16	0	4	0	9	4	0	3
1 to 2	15	1	1	6	11	0	0	0
2 to 3	0	3	0	6	0	0	0	0
3 to 4	2	14	0	25	0	35	0	0

Skyline trail past "Dance floor"/130

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	1	0	1	0	7	0
11:00	4	0	1	0	1	0	7	0
12:00	2	0	3	0	1	0	5	0
1:00	2	0	1	0	1	0	7	0
2:00	3	0	1	0	1	0	7	0
3:00	4	0	3	0	3	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Pebble Creek/131

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	19	3	32	3	12	5	4	5
11 to 12	43	5	35	7	22	8	9	1
12 to 1	77	5	55	11	46	9	37	31
1 to 2	51	33	23	23	15	4	.	.
2 to 3	29	53	17	21	19	7	.	.
3 to 4	15	3	0	39	21	32	.	.

Pebble Creek/131

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	10	3	6	2	7	2	0	1
11 to 12	17	0	12	2	5	8	9	1
12 to 1	48	1	33	2	35	0	23	5
1 to 2	12	2	4	2	12	0	.	.
2 to 3	6	18	1	2	11	2	.	.
3 to 4	7	2	0	5	0	22	.	.

Pebble Creek/131

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	1	1	0	4	0	9	0
11:00	7	0	1	0	4	0	9	0
12:00	2	1	1	0	4	0	9	0
1:00	2	1	1	0	9	0	9	0
2:00	2	1	1	0	9	0	9	0
3:00	4	1	1	0	9	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lakes trail/Skyline trail junction/132

Visitors passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	0	0	0	0	0	4	0	0
11 to 12	4	0	0	1	0	0	0	2
12 to 1	0	2	4	0	2	2	0	2
1 to 2	10	0	2	4	0	0	0	0
2 to 3	6	5	7	5	0	2	2	9
3 to 4	7	6	0	8	4	0	0	3

Lakes trail/Skyline trail junction/132

Backpackers passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME								
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Lakes trail/Skyline trail junction/132

Weather and wind conditions at observation site.

	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
TIME								
10:00	4	0	2	0	3	1	7	0
11:00	4	0	2	0	3	1	7	0
12:00	2	1	3	0	3	0	7	0
1:00	2	1	1	0	1	0	7	0
2:00	4	1	1	0	3	1	7	0
3:00	4	1	1	0	4	1	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Skyline Trail/Lakes Trail junction/133

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	6	0	5	0	2	3	0	0
11 to 12	9	3	7	6	2	0	2	0
12 to 1	7	17	2	11	10	6	0	0
1 to 2	16	42	6	38	7	20	3	2
2 to 3	19	56	11	27	4	30	0	8
3 to 4	1	74	1	49	0	12	0	4

Skyline Trail/Lakes Trail junction/133

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Skyline Trail/Lakes Trail junction/133

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	3	1	7	0
11:00	4	0	1	0	3	0	7	0
12:00	2	1	3	0	3	0	7	0
1:00	2	1	1	0	1	0	7	0
2:00	4	1	1	0	3	1	7	0
3:00	4	1	1	0	4	1	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Pinnacle Peak Trail/134

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	9	0	28	10	4	0	0	0
11 to 12	16	10	22	7	2	2	0	0
12 to 1	8	1	17	8	5	3	8	1
1 to 2	16	3	25	10	3	0	0	0
2 to 3	8	23	5	21	11	8	8	9
3 to 4	2	26	7	25	3	6	2	1

Pinnacle Peak Trail/134

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	3	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	1	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Pinnacle Peak Trail/134

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	2	0	5	0
11:00	1	0	1	0	2	0	5	0
12:00	1	0	1	0	2	0	5	0
1:00	1	0	1	0	3	0	5	0
2:00	3	0	1	0	3	0	4	0
3:00	4	0	2	0	4	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Trail in front of Reflection Lakes/135

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	4	5	44	40	6	2	0	2
11 to 12	20	19	13	12	0	0	7	2
12 to 1	26	24	9	8	8	7	2	0
1 to 2	14	12	17	13	10	13	5	5
2 to 3	13	12	15	12	24	22	6	6
3 to 4	11	17	29	28	4	5	0	0

Trail in front of Reflection Lakes/135

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	1	0	0	0	0
11 to 12	0	3	0	0	0	0	0	0
12 to 1	2	2	0	3	0	0	0	0
1 to 2	0	0	0	2	0	0	0	0
2 to 3	2	2	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Trail in front of Reflection Lakes/135

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	2	0	5	0
11:00	1	0	2	0	2	0	5	0
12:00	1	0	2	0	2	0	5	0
1:00	1	0	1	0	3	0	5	0
2:00	3	0	1	0	3	0	4	0
3:00	4	0	2	0	4	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Reflection Lakes Trail (West)/Wonderland Trail junction/136

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	1	1	3	3	2	4	0	0
11 to 12	14	2	12	3	4	2	7	0
12 to 1	5	17	0	0	3	0	2	0
1 to 2	10	5	11	6	0	0	4	6
2 to 3	28	13	7	3	2	0	0	0
3 to 4	11	2	12	19	0	2	5	3

Reflection Lakes Trail (West)/Wonderland Trail junction/136

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	1	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	2	0	0	0	0	0
1 to 2	0	0	0	2	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Reflection Lakes Trail (West)/Wonderland Trail junction/136

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	3	0	1	0	5	0
11:00	1	0	3	0	3	0	5	0
12:00	3	0	1	0	3	0	4	0
1:00	3	0	1	0	3	0	4	0
2:00	3	0	1	0	4	0	4	0
3:00	4	0	1	0	4	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland Trail/Reflection Lakes (West) junction/137

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	2	1	0	0
11 to 12	0	2	0	11	0	2	0	0
12 to 1	0	5	2	5	0	3	0	0
1 to 2	3	8	1	0	0	2	2	4
2 to 3	5	0	2	0	0	0	2	2
3 to 4	0	0	0	0	1	0	1	0

Wonderland Trail/Reflection Lakes (West) junction/137

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	2	0	0	2
11 to 12	0	0	0	0	1	0	0	0
12 to 1	3	0	0	1	1	4	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	2	0	0	0	0	0	0	0
3 to 4	0	0	0	0	1	0	0	0

Wonderland Trail/Reflection Lakes (West) junction/137

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	4	0	3	0	1	0	5	0
11:00	1	0	3	0	3	0	5	0
12:00	3	0	1	0	3	0	4	0
1:00	3	0	1	0	3	0	4	0
2:00	2	0	9	0	4	0	4	0
3:00	4	0	9	0	4	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Reflection Lakes (East)/Wonderland Trail junction/138

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	4	0	0	0	0	2	0
11 to 12	2	0	3	3	2	0	0	0
12 to 1	3	2	6	0	3	4	4	5
1 to 2	0	4	2	3	1	1	0	4
2 to 3	13	4	9	5	0	0	0	2
3 to 4	0	10	0	11	0	2	4	0

Reflection Lakes (East)/Wonderland Trail junction/138

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	1	0	0	0
1 to 2	0	0	0	0	0	1	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Reflection Lakes (East)/Wonderland Trail junction/138

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	4	0
12:00	1	0	1	0	3	0	5	0
1:00	1	0	1	0	1	0	3	0
2:00	1	0	1	0	1	0	4	0
3:00	2	0	1	0	4	0	2	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland Trail/Reflection Lakes (East) junction/139

Visitors passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	0	0	0	1	0	0	2	0
11 to 12	2	3	0	0	0	1	0	0
12 to 1	0	3	3	4	0	1	0	2
1 to 2	6	2	1	3	4	0	0	0
2 to 3	0	3	8	5	0	0	2	0
3 to 4	0	0	0	0	0	1	0	0

Wonderland Trail/Reflection Lakes (East) junction/139

Backpackers passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	0	0	0	1	0	0	2	0
11 to 12	2	3	0	0	0	1	0	0
12 to 1	0	3	0	4	0	1	0	0
1 to 2	0	2	1	0	4	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	1	0	0

Wonderland Trail/Reflection Lakes (East) junction/139

Weather and wind conditions at observation site.

	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10:00	1	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	4	0
12:00	1	0	1	0	3	0	5	0
1:00	1	0	1	0	1	0	3	0
2:00	1	0	1	0	1	0	4	1
3:00	1	0	1	0	4	0	2	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Bench Lake trail/140

Visitors passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	5	0	0	0	0	0	0	0
11 to 12	11	2	16	3	10	1	11	0
12 to 1	17	0	8	6	6	2	8	0
1 to 2	34	7	16	6	5	9	0	0
2 to 3	2	29	4	14	0	3	3	18
3 to 4	7	19	4	17	0	3	4	6

Bench Lake trail/140

Backpackers passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME								
10 to 11	0	0	0	0	0	0	0	0
11 to 12	6	0	0	2	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	4	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	2	0	0	5	0	0	2	0

Bench Lake trail/140

Weather and wind conditions at observation site.

	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
TIME								
10:00	4	0	1	0	3	0	5	0
11:00	1	0	3	0	3	0	4	0
12:00	1	0	3	0	3	0	5	0
1:00	2	0	3	0	4	0	4	0
2:00	3	0	1	0	3	0	4	0
3:00	4	0	3	0	4	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Box Canyon Loop Trail/141

Visitors passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	40	31	16	14	15	10	21	18
11 to 12	40	52	124	102	26	22	60	54
12 to 1	67	56	63	86	14	17	35	42
1 to 2	53	61	57	57	42	34	43	45
2 to 3	55	28	68	56	23	19	18	26
3 to 4	102	108	75	74	42	45	34	34

Box Canyon Loop Trail/141

Backpackers passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME								
10 to 11	0	0	3	0	1	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Box Canyon Loop Trail/141

Weather and wind conditions at observation site.

	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
TIME								
10:00	1	0	1	0	3	0	7	0
11:00	1	0	1	0	1	0	4	0
12:00	1	0	1	0	3	0	4	0
1:00	1	0	1	0	3	0	4	0
2:00	1	0	1	0	3	0	3	0
3:00	3	0	1	0	1	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Naches Peak Trail (enter from Park)/143

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	4	4	6	11	2	0	0	0
11 to 12	2	2	7	11	6	0	0	0
12 to 1	9	11	10	11	18	16	0	2
1 to 2	28	35	20	19	8	15	0	0
2 to 3	10	34	28	75	4	9	0	0
3 to 4	1	25	2	21	0	15	0	5

Naches Peak Trail (enter from Park)/143

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	5	2	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	2	0	0	0	2
1 to 2	0	0	0	3	0	0	0	0
2 to 3	0	0	0	5	0	0	0	0
3 to 4	0	0	0	2	0	0	0	0

Naches Peak Trail (enter from Park)/143

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	5	0
12:00	1	0	1	0	3	0	5	0
1:00	1	0	1	0	1	0	5	0
2:00	3	0	1	0	1	0	3	0
3:00	3	0	1	0	1	0	1	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Naches Peak trail (enter from Pacific Crest Trail)/144

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	23	0	29	2	8	0	0	0
11 to 12	49	2	38	12	38	0	3	9
12 to 1	45	3	81	24	15	4	5	0
1 to 2	42	5	47	16	21	3	0	0
2 to 3	50	37	43	26	10	3	0	0
3 to 4	25	20	40	24	0	4	5	5

Naches Peak trail (enter from Pacific Crest Trail)/144

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	2	2	0	0	0
11 to 12	7	0	6	1	0	0	0	6
12 to 1	0	0	0	6	0	2	0	0
1 to 2	3	0	0	0	0	3	0	0
2 to 3	6	2	0	2	3	0	0	0
3 to 4	0	0	0	2	0	0	0	0

Naches Peak trail (enter from Pacific Crest Trail)/144

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	1	0	5	0
11:00	2	0	1	0	1	0	5	1
12:00	2	0	1	0	3	0	5	1
1:00	2	0	1	0	1	0	5	0
2:00	2	0	1	0	1	1	5	0
3:00	4	0	1	0	1	1	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Wonderland/Mt. Freemont/Burroughs/Sunrise Camp junction/145

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	10	4	11	2	2	1	1	2
11 to 12	10	3	15	9	0	3	2	0
12 to 1	4	2	7	18	5	5	0	0
1 to 2	0	9	23	7	3	6	.	.
2 to 3	11	13	4	28	5	4	.	.
3 to 4	8	12	7	13	0	6	.	.

Wonderland/Mt. Freemont/Burroughs/Sunrise Camp junction/145

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	4	4	0	2	0	1	0	2
11 to 12	0	0	2	9	0	3	2	0
12 to 1	2	0	5	3	0	0	0	0
1 to 2	0	5	4	5	0	4	.	.
2 to 3	5	0	0	4	0	0	.	.
3 to 4	0	0	0	5	0	0	.	.

Wonderland/Mt. Freemont/Burroughs/Sunrise Camp junction/145

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	3	0	1	1	4	0	4	0
11:00	3	0	2	1	4	0	7	0
12:00	1	0	3	0	1	0	5	0
1:00	4	1	1	1	2	1	6	0
2:00	4	1	1	1	2	1	6	0
3:00	4	0	2	1	4	0	6	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Mt. Freemont/Wonderland/Burroughs/Sunrise Camp junction/146

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	1	1	4	4	0	0	0	1
11 to 12	21	1	35	0	0	0	1	1
12 to 1	21	3	24	5	5	0	2	0
1 to 2	27	9	20	21	9	0	.	.
2 to 3	8	30	17	37	5	12	.	.
3 to 4	6	25	2	14	0	3	.	.

Mt. Freemont/Wonderland/Burroughs/Sunrise Camp junction/146

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	2	0	0	.	.
2 to 3	0	0	0	0	0	0	.	.
3 to 4	0	0	0	0	0	0	.	.

Mt. Freemont/Wonderland/Burroughs/Sunrise Camp junction/146

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	3	0	1	1	4	0	4	0
11:00	3	0	2	1	4	0	7	0
12:00	1	0	3	0	1	0	5	0
1:00	4	0	1	1	2	1	6	0
2:00	4	0	1	0	2	1	6	0
3:00	4	0	1	0	4	0	6	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Burroughs/Mt. Freemont/Wonderland/Sunrise Camp junction/147

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	14	4	5	3	1	0	3	1
11 to 12	33	2	24	2	10	0	0	2
12 to 1	21	4	48	13	9	2	4	0
1 to 2	29	0	13	8	7	0	.	.
2 to 3	49	42	33	16	14	11	.	.
3 to 4	3	16	40	12	12	10	.	.

Burroughs/Mt. Freemont/ Wonderland/Sunrise Camp junction/147

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	4	4	0	2	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	.
1 to 2	0	0	1	4	0	0	.	.
2 to 3	0	0	0	3	0	2	.	.
3 to 4	0	0	0	0	0	0	.	.

Burroughs/Mt. Freemont/ Wonderland/Sunrise Camp junction/147

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	3	0	1	1	4	0	4	0
11:00	4	0	2	1	4	0	7	0
12:00	1	0	3	0	1	0	5	0
1:00	4	1	1	1	2	1	6	0
2:00	4	1	1	0	2	1	6	0
3:00	4	1	2	0	4	0	6	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

End Point of Glacier Basin/148

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	10	7	3	12	3	8	0	0
11 to 12	21	4	11	5	2	3	6	8
12 to 1	9	4	15	15	9	4	0	0
1 to 2	12	19	12	30	1	1	2	2
2 to 3	14	14	17	11	3	8	4	0
3 to 4	19	15	2	3	4	0	0	0

End Point of Glacier Basin/148

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	6	4	0	0	8	0	0	0
11 to 12	11	5	0	0	0	0	0	0
12 to 1	0	0	6	6	0	0	0	0
1 to 2	0	0	2	2	0	0	0	0
2 to 3	0	0	3	3	0	2	0	0
3 to 4	0	0	0	0	4	0	0	0

End Point of Glacier Basin/148

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10:00	7	0	2	0	3	0	4	0
11:00	1	0	1	0	1	0	4	0
12:00	1	0	3	0	1	0	4	0
1:00	1	0	1	0	1	0	4	0
2:00	3	0	3	0	1	0	4	0
3:00	3	0	1	0	1	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lake Eleanor trail into Forest Service Land/150

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	3	2	16	0	4	0	0
11 to 12	0	0	0	0	0	3	0	0
12 to 1	4	6	0	2	0	0	0	0
1 to 2	0	0	12	0	2	0	0	0
2 to 3	2	2	0	0	3	0	0	0
3 to 4	5	3	0	0	6	4	0	0

Lake Eleanor trail into Forest Service Land/150

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	3	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	3	3	0	0	0	0	0	0

Lake Eleanor trail into Forest Service Land/150

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	9	0	9	0	9	0	9	0
11:00	9	0	9	0	9	0	9	0
12:00	9	0	9	0	9	0	9	0
1:00	9	0	9	0	9	0	9	0
2:00	9	0	9	0	9	0	9	0
3:00	9	0	9	0	9	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Lake Eleanor trail into Park Service Land/151

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	7	0	16	0	0	0	0	0
11 to 12	0	0	0	0	3	0	0	0
12 to 1	2	0	0	0	0	0	0	0
1 to 2	0	0	0	12	0	0	0	0
2 to 3	0	0	0	0	0	3	0	0
3 to 4	3	3	0	0	0	0	0	0

Lake Eleanor trail into Park Service Land/151

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	5	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	3	3	0	0	0	0	0	0

Lake Eleanor trail into Park Service Land/151

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	9	0	9	0	9	0	9	0
11:00	9	0	9	0	9	0	9	0
12:00	9	0	9	0	9	0	9	0
1:00	9	0	9	0	9	0	9	0
2:00	9	0	9	0	9	0	9	0
3:00	9	0	9	0	9	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Curtis Way Trail/Wonderland Trail Junction/152

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	1	0	0	0	0	0	0	0
11 to 12	3	0	0	0	0	0	0	0
12 to 1	2	2	0	2	0	0	0	0
1 to 2	0	2	0	0	0	0	.	.
2 to 3	2	1	0	0	0	0	.	.
3 to 4	4	2	0	0	0	0	.	.

Curtis Way Trail/Wonderland Trail Junction/152

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	2	0	0	0	0
1 to 2	0	0	0	0	0	0	.	.
2 to 3	2	0	0	0	0	0	.	.
3 to 4	2	0	0	0	0	0	.	.

Curtis Way Trail/Wonderland Trail Junction/152

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	3	0	1	0	3	0	7	0
11:00	4	0	1	0	3	0	7	0
12:00	1	0	1	0	1	0	7	0
1:00	1	0	1	0	3	0	9	0
2:00	1	0	1	0	7	0	9	0
3:00	1	0	1	0	7	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Upper Tipsoo Lake/154

Visitors passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	2	2	13	2	2	2	0	0
11 to 12	0	0	3	3	4	4	0	0
12 to 1	1	0	9	9	8	8	0	0
1 to 2	2	5	8	2	4	7	0	0
2 to 3	10	11	21	16	9	5	0	0
3 to 4	7	1	10	8	6	8	0	0

Upper Tipsoo Lake/154

Backpackers passing observation site.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME								
10 to 11	0	0	4	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	2	0	0	0	0	0
2 to 3	0	0	7	6	0	0	0	0
3 to 4	0	0	2	0	0	0	0	0

Upper Tipsoo Lake/154

Weather and wind conditions at observation site.

	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
TIME								
10:00	4	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	5	0
12:00	1	0	1	0	1	0	5	0
1:00	1	0	1	0	1	0	5	0
2:00	1	0	1	0	1	0	3	0
3:00	1	0	1	0	1	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Camp/Mt. Freemont/Wonderland/Burroughs junction/156

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	4	0	0	3	0	0	0	0
11 to 12	2	3	6	0	1	0	1	1
12 to 1	17	2	9	1	19	0	4	0
1 to 2	21	6	10	4	0	0	.	.
2 to 3	65	5	27	9	10	7	.	.
3 to 4	30	10	19	0	6	13	.	.

Sunrise Camp/Mt. Freemont/Wonderland/Burroughs junction/156

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	4	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	1
12 to 1	0	0	0	0	0	0	0	0
1 to 2	1	0	0	0	0	0	.	.
2 to 3	0	0	3	0	0	0	.	.
3 to 4	0	0	1	0	0	0	.	.

Sunrise Camp/Mt. Freemont/Wonderland/Burroughs junction/156

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	3	0	1	0	4	0	4	0
11:00	1	0	2	1	4	0	7	0
12:00	1	0	3	0	1	0	5	0
1:00	4	1	1	1	2	1	7	0
2:00	4	1	1	0	2	1	6	0
3:00	4	0	2	0	4	0	6	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Van Trump Park: to Mildred Point/158

Visitors passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	2	0	0	0	0	0	0	0
11 to 12	5	0	0	0	0	0	0	0
12 to 1	3	0	6	0	0	0	0	0
1 to 2	7	10	13	5	0	2	0	0
2 to 3	3	0	1	3	0	0	0	3
3 to 4	5	3	3	0	2	0	1	1

Van Trump Park: to Mildred Point/158

Backpackers passing observation site.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	1	0	0	0	0	0
1 to 2	0	0	2	0	0	0	0	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Van Trump Park: to Mildred Point/158

Weather and wind conditions at observation site.

TIME	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	3	0	1	0	5	0
11:00	4	0	3	0	1	0	5	0
12:00	1	0	1	0	3	0	7	0
1:00	1	0	1	0	1	0	7	0
2:00	4	0	1	0	1	0	7	0
3:00	4	0	1	0	1	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data collected: Loops and Webs.

In survey period 3, the number of observation points was sufficient to allow description of two webs and five loops. Refer to Figures 10 to 13 in the previous section describing survey period 2 to see the location of these trail systems.

Visitor use data for loops and webs are presented in pairs of tables below. Data in the upper table represent the total number of visitors entering and leaving each loop or web via the defined access points. The lower table shows similar counts of backpackers.

**Interpreting Data Tables From Survey Period 3:
Loops and Webs**

The pairs of tables below are each laid out in 8 columns of 6 numbers. Each number represents the number of visitors entering or leaving a loop or web during one hour of a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken and the direction of travel.

If I wished to know the number of visitors entering the Paradise Upper Web between 11:00 and 12:00 on August 27 I would first look at the labels above the Paradise Upper Web table to find the two columns of data representing the 27th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 263 visitors entered the web during the hour of interest.

If I wished to know the number of those 263 visitors who were backpackers outfitted for overnight camping I would look at the labels above the second Paradise Upper Web table to find the two columns of data representing the 27th. I would then move down the "in" column to the line labeled "11 to 12" on the left and find that 4 of the 263 visitors were backpackers.

Recall that all the observation points defining each loop or web are listed above and shown on the maps in Figures 6.10 to 6.13.

Paradise upper web.

Visitors entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	247	24	217	48	180	18	80	4
11 to 12	246	95	263	69	113	20	38	6
12 to 1	369	134	220	281	102	58	35	12
1 to 2	348	257	402	424	212	131	118	66
2 to 3	352	376	466	541	213	194	120	89
3 to 4	434	554	474	525	185	274	80	133

Paradise upper web.

Backpackers entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	57	0	46	4	37	0	42	0
11 to 12	12	3	4	0	13	2	0	0
12 to 1	4	0	0	0	11	5	0	0
1 to 2	7	0	0	3	1	4	0	2
2 to 3	0	2	0	4	0	0	0	3
3 to 4	2	21	0	0	0	9	0	0

Paradise lower web.

Visitors entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	1	5	4	3	4	8	2	0
11 to 12	23	3	15	10	7	2	14	3
12 to 1	11	22	12	2	8	10	6	9
1 to 2	26	10	21	13	3	2	7	11
2 to 3	51	41	31	14	3	12	3	11
3 to 4	26	31	14	43	8	4	15	7

Paradise lower web.

Backpackers entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	1	0	0	0	0	0
11 to 12	0	0	0	1	1	0	0	0
12 to 1	0	0	2	0	1	0	0	0
1 to 2	0	0	0	2	0	1	1	0
2 to 3	0	0	0	0	0	0	0	0
3 to 4	0	2	0	0	0	0	0	0

Rampart Ridge Loop and beyond.

Visitors entering loop/web.

		DAY							
		26		27		28		29	
		IN	OUT	IN	OUT	IN	OUT	IN	OUT
		Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME									
10 to 11	16	1	7	3	1	7	3	1	
11 to 12	12	5	13	2	2	0	2	0	
12 to 1	13	1	14	0	0	0	8	4	
1 to 2	14	4	7	8	0	4	2	3	
2 to 3	6	3	16	24	0	6	2	5	
3 to 4	0	2	5	16	2	2	4	8	

Rampart Ridge Loop and beyond.

Backpackers entering loop/web.

		DAY							
		26		27		28		29	
		IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME									
10 to 11	4	0	2	2	0	0	1	0	
11 to 12	6	2	3	0	2	0	0	0	
12 to 1	0	0	1	0	0	0	1	1	
1 to 2	4	0	5	0	0	1	0	0	
2 to 3	3	2	3	0	5	0	0	1	
3 to 4	0	0	3	1	0	0	0	4	

Van Trump Park Loop.

Visitors entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	27	0	13	3	5	0	11	0
11 to 12	31	5	26	2	10	2	11	2
12 to 1	29	12	24	11	23	0	16	14
1 to 2	32	10	39	16	23	10	10	7
2 to 3	15	21	37	22	22	18	13	16
3 to 4	22	40	12	16	0	27	8	19

Van Trump Park Loop.

Backpackers entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	0	0	0	0	0
11 to 12	0	0	0	0	0	0	0	0
12 to 1	0	0	0	0	0	0	0	0
1 to 2	0	0	0	0	0	0	0	0
2 to 3	0	0	0	2	0	0	0	0
3 to 4	0	0	0	0	0	0	0	0

Naches Peak Loop Trail.

Visitors entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	27	4	35	13	10	0	0	0
11 to 12	51	4	45	23	44	0	3	9
12 to 1	54	14	91	35	33	20	5	2
1 to 2	70	40	67	35	29	18	0	0
2 to 3	60	71	71	101	14	12	0	0
3 to 4	26	45	42	45	0	19	5	10

Naches Peak Loop Trail.

Backpackers entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	0	0	0	7	4	0	0	0
11 to 12	7	0	6	1	0	0	0	6
12 to 1	0	0	0	8	0	2	0	2
1 to 2	3	0	0	3	0	3	0	0
2 to 3	6	2	0	7	3	0	0	0
3 to 4	0	0	0	4	0	0	0	0

Sunrise Rim Trail Loop.

Visitors entering loop/web.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
TIME								
10 to 11	17	6	6	3	5	5	6	6
11 to 12	19	20	46	16	9	8	6	4
12 to 1	56	31	25	25	3	2	1	11
1 to 2	40	36	49	60	25	31	11	14
2 to 3	63	131	40	82	14	18	12	13
3 to 4	18	82	42	112	24	28	13	28

Sunrise Rim Trail Loop.

Backpackers entering loop/web.

	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
TIME								
10 to 11	3	3	0	0	0	1	2	0
11 to 12	0	8	3	2	0	0	0	0
12 to 1	4	0	0	4	0	0	0	0
1 to 2	0	2	0	3	1	0	0	0
2 to 3	2	0	0	0	0	0	0	0
3 to 4	0	0	3	0	2	1	2	0

Trail of the Shadows Loop.

Visitors entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	Sum
10 to 11	27	12	31	21	10	3	11	12
11 to 12	36	26	35	27	4	8	18	10
12 to 1	48	56	58	64	9	5	18	20
1 to 2	37	44	50	28	16	7	20	14
2 to 3	31	22	66	69	10	10	29	20
3 to 4	59	53	22	31	16	3	12	16

Trail of the Shadows Loop.

Backpackers entering loop/web.

TIME	DAY							
	26		27		28		29	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
	IN	OUT	IN	OUT	IN	OUT	IN	OUT
10 to 11	8	0	0	0	0	0	1	0
11 to 12	0	0	2	0	2	0	0	0
12 to 1	2	2	1	0	0	0	2	0
1 to 2	4	0	1	0	0	1	0	0
2 to 3	5	0	2	0	0	0	0	1
3 to 4	0	0	5	3	0	0	0	0

Data collected: Parking lots.

The visitor use data for parking lots are presented below in sets of three tables. For each parking lot, the first table shows the number of cars present at each time indicated. The second table (consisting of two parts) shows the number of vehicle subtypes present at each time. Finally, the third table shows the weather conditions that were present during data collection.

**Interpreting Data Tables From Survey Period 3:
Parking Lots**

In each set of three tables that follow, the first table is laid out in 4 columns of 7 numbers. Each number represents the number of vehicles parked in a defined parking lot² at a particular time on a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken.

If I wished to know the number of vehicles in the Kautz Creek parking lot at 12:00 on August 27 I would first look at the labels above the first Kautz Creek table to find the column of data representing the 27th. I would then move down that column to the line labeled "12:00" on the left and find that 27 vehicles were present at the time of interest.

If I wished to know whether any of the 27 vehicles present at that time were RVs I would look at the labels above the second Kautz Creek table to find the 6 columns of data representing the 27th. I would then find the column labeled "RVs", move down that column to the line labeled "12:00" on the left and find that 2 RVs were present at the time of interest.

Finally, if I wished to know the weather at the observation site at the time when the RVs were present, I could move to the third table, find the column of data under the 27th labeled "weather" and find the weather code "3" recorded at 12:00 indicating that it was cloudy and warm at the time when the observation was made.

² Counts for the following parking lots included vehicles parked in contiguous overflow parking areas: Paradise Inn (along the valley road to turnout at curve), Sunrise Lodge (gravel overflow parking area), and Comet Falls (edges of road).

Kautz Creek Parking Lot/201

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	4	21	10	3
11:00	15	20	11	9
12:00	18	27	11	10
1:00	15	30	9	7
2:00	14	34	7	9
3:00	14	25	9	6
4:00	12	29	4	6

Types of vehicles counted: Site 201

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	4	0	0	0	0	4	21	0	0	0	0	21
11:00	15	0	0	0	0	15	20	0	0	0	0	20
12:00	18	0	0	0	0	18	25	2	0	0	0	27
1:00	15	0	0	0	0	15	29	1	0	0	0	30
2:00	13	1	0	0	0	14	34	0	0	0	0	34
3:00	14	0	0	0	0	14	25	0	0	0	0	25
4:00	12	0	0	0	0	12	29	0	0	0	0	29

(continued)

Types of vehicles counted: Site 201

Time	DAY											
	28						29					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	10	0	0	0	0	10	3	0	0	0	0	3
11:00	11	0	0	0	0	11	9	0	0	0	0	9
12:00	10	1	0	0	0	11	10	0	0	0	0	10
1:00	9	0	0	0	0	9	7	0	0	0	0	7
2:00	7	0	0	0	0	7	8	1	0	0	0	9
3:00	9	0	0	0	0	9	6	0	0	0	0	6
4:00	4	0	0	0	0	4	6	0	0	0	0	6

Weather Conditions: Site 201

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	2	0	2	0	5	0
11:00	2	0	2	0	2	0	3	0
12:00	1	0	3	0	3	0	3	0
1:00	1	0	3	0	3	0	3	0
2:00	3	0	1	0	3	0	3	0
3:00	3	0	1	0	3	0	3	0
4:00	3	0	3	0	3	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Longmire Parking Lot/202

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	59	68	41	32
11:00	56	69	15	27
12:00	49	76	20	42
1:00	67	68	26	30
2:00	50	62	33	28
3:00	47	47	11	36
4:00	.	31	13	24

Types of vehicles counted: Site 202

Time	DAY											
	26					27						
	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	59	0	0	0	0	59	63	3	1	0	1	68
11:00	48	1	0	0	7	56	62	2	0	0	5	69
12:00	46	0	1	0	2	49	72	1	0	0	3	76
1:00	62	0	0	0	5	67	67	0	0	0	1	68
2:00	44	0	0	0	6	50	58	2	0	0	2	62
3:00	43	3	0	0	1	47	47	0	0	0	0	47
4:00	.	.	.	.	.	.	30	1	0	0	0	31

(continued)

Types of vehicles counted: Site 202

Time	DAY											
	28					29						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	39	2	0	0	0	41	32	0	0	0	0	32
11:00	15	0	0	0	0	15	26	0	0	1	0	27
12:00	20	0	0	0	0	20	41	0	0	1	0	42
1:00	25	1	0	0	0	26	29	1	0	0	0	30
2:00	32	1	0	0	0	33	28	0	0	0	0	28
3:00	11	0	0	0	0	11	33	2	1	0	0	36
4:00	12	0	0	1	0	13	23	0	0	1	0	24

Weather Conditions: Site 202

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	1	0	5	0
11:00	1	0	1	0	2	0	4	0
12:00	1	0	1	0	1	0	4	0
1:00	2	0	1	0	2	0	4	0
2:00	2	0	1	0	1	1	4	0
3:00	3	0	1	0	1	1	3	0
4:00	9	0	1	0	2	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Narada Falls Parking Lot/203

Total vehicles in lot

Time	DAY			
	26	27	28	29
10:00	6	6	10	5
11:00	25	27	17	5
12:00	30	24	23	15
1:00	49	42	21	19
2:00	49	56	18	17
3:00	39	54	19	13
4:00	34	46	13	13

Types of vehicles counted: Site 203

Time	DAY											
	26					27						
	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	6	0	0	0	0	6	6	0	0	0	0	6
11:00	19	1	0	0	5	25	27	0	0	0	0	27
12:00	29	1	0	0	0	30	24	0	0	0	0	24
1:00	49	0	0	0	0	49	42	0	0	0	0	42
2:00	49	0	0	0	0	49	53	1	0	1	1	56
3:00	39	0	0	0	0	39	53	0	0	0	1	54
4:00	33	1	0	0	0	34	44	2	0	0	0	46

(continued)

Types of vehicles counted: Site 203

Time	DAY											
	28					29						
	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	8	0	0	0	2	10	5	0	0	0	0	5
11:00	16	0	1	0	0	17	5	0	0	0	0	5
12:00	22	1	0	0	0	23	15	0	0	0	0	15
1:00	21	0	0	0	0	21	19	0	0	0	0	19
2:00	17	1	0	0	0	18	16	1	0	0	0	17
3:00	19	0	0	0	0	19	12	1	0	0	0	13
4:00	13	0	0	0	0	13	13	0	0	0	0	13

Weather Conditions: Site 203

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	2	0	5	0
11:00	1	0	2	0	2	0	5	0
12:00	1	0	2	0	2	0	4	0
1:00	1	0	1	0	2	0	5	0
2:00	3	0	1	0	2	0	4	0
3:00	3	0	1	0	2	0	4	0
4:00	3	0	1	0	2	0	2	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Parking Lot/204

Total vehicles in lot

Time	DAY			
	26	27	28	29
10:00	67	86	76	72
11:00	113	108	87	86
12:00	141	144	117	104
1:00	150	150	139	132
2:00	155	153	137	131
3:00	141	152	130	133
4:00	141	151	.	122

Types of vehicles counted: Site 204

Time	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	63	1	0	3	0	67	82	0	0	4	0	86
11:00	107	4	0	2	0	113	106	1	0	1	0	108
12:00	137	2	0	2	0	141	141	1	0	2	0	144
1:00	145	1	0	4	0	150	146	0	0	2	2	150
2:00	149	2	0	3	1	155	149	0	1	3	0	153
3:00	138	1	0	2	0	141	149	0	0	2	1	152
4:00	135	1	0	3	2	141	148	0	0	3	0	151

(continued)

Types of vehicles counted: Site 204

Time	28						29					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	71	0	0	5	0	76	66	1	0	5	0	72
11:00	82	0	0	5	0	87	80	1	0	5	0	86
12:00	109	1	1	6	0	117	98	0	0	6	0	104
1:00	133	1	0	5	0	139	127	0	0	5	0	132
2:00	132	1	0	4	0	137	124	2	0	5	0	131
3:00	127	0	0	3	0	130	127	1	0	5	0	133
4:00	.	.	.	.	.	.	116	1	0	4	1	122

Weather Conditions: Site 204

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	2	0	7	0
11:00	2	0	2	0	3	0	7	0
12:00	2	0	1	0	3	0	7	0
1:00	2	0	1	0	3	0	7	0
2:00	2	0	1	0	3	0	7	0
3:00	4	0	1	0	3	0	7	0
4:00	4	0	2	0	9	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Paradise Inn Parking Lot/205

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	256	252	156	155
11:00	295	319	174	152
12:00	429	401	207	177
1:00	479	515	243	189
2:00	494	544	299	227
3:00	527	539	298	202
4:00	484	524	305	211

Types of vehicles counted: Site 205

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	251	3	1	0	1	256	245	5	0	0	2	252
11:00	291	3	1	0	0	295	309	6	1	0	3	319
12:00	419	6	3	1	0	429	384	11	1	2	3	401
1:00	464	10	5	0	0	479	493	12	5	1	4	515
2:00	479	8	4	2	1	494	518	12	4	1	9	544
3:00	502	4	2	1	18	527	524	10	2	1	2	539
4:00	481	2	1	0	0	484	504	10	0	1	9	524

(continued)

Types of vehicles counted: Site 205

Time	DAY											
	28					29						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	154	2	0	0	0	156	152	1	0	2	0	155
11:00	170	2	0	2	0	174	147	2	0	3	0	152
12:00	202	2	2	1	0	207	170	4	1	2	0	177
1:00	238	1	3	1	0	243	179	5	2	3	0	189
2:00	294	3	2	0	0	299	219	4	1	3	0	227
3:00	288	8	1	1	0	298	195	5	0	2	0	202
4:00	296	7	1	1	0	305	205	5	0	1	0	211

Weather Conditions: Site 205

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	3	0	2	0	3	0	5	0
11:00	1	1	1	0	3	1	5	0
12:00	1	0	1	0	3	0	7	0
1:00	1	0	1	0	3	0	7	0
2:00	3	0	1	0	3	0	7	0
3:00	3	0	1	1	3	0	4	0
4:00	3	0	1	0	3	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Grove of the Patriarchs Parking Lot/206

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	5	10	4	14
11:00	16	19	5	23
12:00	19	24	18	22
1:00	22	31	14	18
2:00	25	31	15	20
3:00	21	26	18	22
4:00	28	23	21	9

Types of vehicles counted: Site 206

DAY												
26						27						
Time	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	4	1	0	0	0	5	9	0	0	1	0	10
11:00	15	1	0	0	0	16	18	0	0	1	0	19
12:00	18	0	0	1	0	19	23	0	0	1	0	24
1:00	22	0	0	0	0	22	29	0	0	0	2	31
2:00	25	0	0	0	0	25	28	1	0	0	2	31
3:00	20	0	1	0	0	21	25	1	0	0	0	26
4:00	28	0	0	0	0	28	23	0	0	0	0	23

(continued)

Types of vehicles counted: Site 206

DAY												
28						29						
Time	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	4	0	0	0	0	4	11	1	0	2	0	14
11:00	5	0	0	0	0	5	21	0	0	2	0	23
12:00	17	0	0	1	0	18	19	0	0	3	0	22
1:00	14	0	0	0	0	14	17	0	0	1	0	18
2:00	15	0	0	0	0	15	19	0	0	1	0	20
3:00	17	1	0	0	0	18	21	0	0	1	0	22
4:00	19	2	0	0	0	21	8	0	0	1	0	9

Weather Conditions: Site 206

DAY									
26		27		28		29			
Time	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	
10:00	1	0	1	0	1	0	4	0	
11:00	1	0	1	0	1	0	4	0	
12:00	1	0	1	0	1	0	4	0	
1:00	1	0	1	0	1	0	4	0	
2:00	1	0	1	0	1	0	4	0	
3:00	1	0	1	0	3	0	3	0	
4:00	1	0	1	0	3	0	3	0	

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Parking Lot/207

Total vehicles in lot

Time	DAY			
	26	27	28	29
10:00	78	84	44	37
11:00	133	142	45	50
12:00	207	220	89	72
1:00	254	289	108	100
2:00	283	338	135	97
3:00	258	340	97	89
4:00	226	264	108	91

Types of vehicles counted: Site 207

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	75	0	0	3	0	78	83	1	0	0	0	84
11:00	130	0	0	3	0	133	137	1	0	2	2	142
12:00	182	4	0	3	18	207	217	1	0	2	0	220
1:00	227	4	0	5	18	254	280	1	0	4	4	289
2:00	270	6	0	5	2	283	330	2	0	4	2	338
3:00	247	5	0	4	2	258	333	2	0	4	1	340
4:00	218	3	0	4	1	226	258	1	0	4	1	264

(continued)

Types of vehicles counted: Site 207

Time	DAY											
	28						29					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	41	1	0	2	0	44	32	0	0	5	0	37
11:00	41	0	1	2	1	45	46	1	0	3	0	50
12:00	82	3	1	2	1	89	67	2	0	3	0	72
1:00	100	3	1	2	2	108	91	4	0	5	0	100
2:00	133	2	0	0	0	135	93	4	0	0	0	97
3:00	94	1	0	1	1	97	85	1	0	3	0	89
4:00	104	1	0	2	1	108	86	1	0	4	0	91

Weather Conditions: Site 207

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	4	0	4	0
11:00	4	0	2	0	4	0	4	0
12:00	3	0	4	0	4	0	5	0
1:00	2	0	1	0	3	1	5	0
2:00	4	0	1	0	3	1	4	0
3:00	3	0	1	0	1	0	4	0
4:00	4	0	4	0	3	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Comet Falls Parking Lot/208

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	9	14	4	7
11:00	19	17	7	12
12:00	26	24	9	17
1:00	28	28	14	17
2:00	27	29	19	16
3:00	26	35	20	14
4:00	23	32	14	9

Types of vehicles counted: Site 208

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	9	0	0	0	0	9	14	0	0	0	0	14
11:00	19	0	0	0	0	19	17	0	0	0	0	17
12:00	26	0	0	0	0	26	23	1	0	0	0	24
1:00	28	0	0	0	0	28	27	1	0	0	0	28
2:00	27	0	0	0	0	27	28	1	0	0	0	29
3:00	26	0	0	0	0	26	34	0	0	0	1	35
4:00	23	0	0	0	0	23	31	0	0	0	1	32

(continued)

Types of vehicles counted: Site 208

Time	DAY											
	28					29						
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	4	0	0	0	0	4	6	0	0	1	0	7
11:00	7	0	0	0	0	7	11	0	0	1	0	12
12:00	9	0	0	0	0	9	16	0	0	1	0	17
1:00	14	0	0	0	0	14	17	0	0	0	0	17
2:00	19	0	0	0	0	19	16	0	0	0	0	16
3:00	20	0	0	0	0	20	14	0	0	0	0	14
4:00	14	0	0	0	0	14	9	0	0	0	0	9

Weather Conditions: Site 208

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	1	0	3	0	5	0
11:00	2	0	1	0	3	0	4	0
12:00	1	0	3	0	3	0	4	0
1:00	1	0	1	0	3	0	4	0
2:00	3	0	1	0	3	0	4	0
3:00	3	0	1	0	3	0	3	0
4:00	3	0	3	0	3	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Westside Road Parking Lot/209

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	15	9	6
11:00	21	19	6	2
12:00	20	20	6	4
1:00	21	17	6	4
2:00	21	16	5	5
3:00	20	19	5	5
4:00	19	15	4	5

Types of vehicles counted: Site 209

DAY											
26						27					
Time	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total	
10:00	15	0	0	0	0	15	9	0	0	0	9
11:00	21	0	0	0	0	21	19	0	0	0	19
12:00	20	0	0	0	0	20	20	0	0	0	20
1:00	21	0	0	0	0	21	17	0	0	0	17
2:00	21	0	0	0	0	21	16	0	0	0	16
3:00	20	0	0	0	0	20	19	0	0	0	19
4:00	19	0	0	0	0	19	15	0	0	0	15

(continued)

Types of vehicles counted: Site 209

DAY											
28						29					
Time	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total	
10:00	6	0	0	0	0	6	1	0	0	0	1
11:00	6	0	0	0	0	6	2	0	0	0	2
12:00	6	0	0	0	0	6	4	0	0	0	4
1:00	6	0	0	0	0	6	4	0	0	0	4
2:00	5	0	0	0	0	5	5	0	0	0	5
3:00	4	0	0	1	0	5	5	0	0	0	5
4:00	4	0	0	0	0	4	5	0	0	0	5

Weather Conditions: Site 209

DAY								
Time	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	.	0	.	0	.	0	.	0
11:00	1	0	1	0	1	0	5	0
12:00	1	0	1	0	2	0	5	0
1:00	1	0	1	0	2	0	5	0
2:00	1	0	1	0	1	0	4	0
3:00	1	0	1	0	1	0	3	0
4:00	.	0	1	0	1	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Reflection Lakes Parking Lot/210

Total vehicles in lot

Time	DAY			
	26	27	28	29
10:00	11	11	7	3
11:00	15	31	6	4
12:00	24	35	6	5
1:00	28	45	9	5
2:00	35	48	12	4
3:00	33	49	7	5
4:00	20	37	8	5

Types of vehicles counted: Site 210

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	11	0	0	0	0	11	10	1	0	0	0	11
11:00	15	0	0	0	0	15	31	0	0	0	0	31
12:00	24	0	0	0	0	24	35	0	0	0	0	35
1:00	28	0	0	0	0	28	44	1	0	0	0	45
2:00	35	0	0	0	0	35	47	1	0	0	0	48
3:00	32	1	0	0	0	33	48	1	0	0	0	49
4:00	20	0	0	0	0	20	37	0	0	0	0	37

(continued)

Types of vehicles counted: Site 210

Time	DAY											
	28						29					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	5	0	0	0	2	7	3	0	0	0	0	3
11:00	6	0	0	0	0	6	4	0	0	0	0	4
12:00	6	0	0	0	0	6	5	0	0	0	0	5
1:00	9	0	0	0	0	9	5	0	0	0	0	5
2:00	11	1	0	0	0	12	4	0	0	0	0	4
3:00	7	0	0	0	0	7	5	0	0	0	0	5
4:00	8	0	0	0	0	8	5	0	0	0	0	5

Weather Conditions: Site 210

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	1	1	0	2	0	5	1
11:00	1	1	1	0	2	0	5	0
12:00	1	0	1	0	2	0	5	0
1:00	1	0	1	0	3	0	5	0
2:00	3	1	1	0	3	0	4	1
3:00	3	1	1	0	4	0	3	0
4:00	4	1	1	0	4	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Box Canyon Parking Lot/211

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	6	7	8	3
11:00	20	16	8	12
12:00	12	22	8	8
1:00	18	24	9	8
2:00	26	20	12	8
3:00	17	25	14	7
4:00	25	21	12	12

Types of vehicles counted: Site 211

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	5	0	0	1	0	6	7	0	0	0	0	7
11:00	19	1	0	0	0	20	16	0	0	0	0	16
12:00	10	1	1	0	0	12	19	0	3	0	0	22
1:00	17	1	0	0	0	18	23	1	0	0	0	24
2:00	26	0	0	0	0	26	19	1	0	0	0	20
3:00	17	0	0	0	0	17	25	0	0	0	0	25
4:00	25	0	0	0	0	25	21	0	0	0	0	21

(continued)

Types of vehicles counted: Site 211

Time	DAY											
	28					29						
	Cars	RVs	Buses	Govt.	MCycle Total	Cars	RVs	Buses	Govt.	MCycle Total		
10:00	6	0	0	2	0	8	3	0	0	0	0	3
11:00	6	0	0	2	0	8	11	1	0	0	0	12
12:00	7	0	0	1	0	8	7	0	1	0	0	8
1:00	8	0	0	1	0	9	8	0	0	0	0	8
2:00	11	0	0	1	0	12	8	0	0	0	0	8
3:00	12	1	0	1	0	14	7	0	0	0	0	7
4:00	11	0	0	1	0	12	12	0	0	0	0	12

Weather Conditions: Site 211

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	1	0	1	0	3	0	7	0
11:00	1	0	1	0	1	0	4	0
12:00	1	0	1	0	3	0	4	0
1:00	1	0	1	0	3	0	4	0
2:00	1	0	1	0	3	0	3	0
3:00	3	0	1	0	1	0	3	0
4:00	9	0	9	0	9	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Ohanapecosh Parking Lot/212

Total vehicles in lot

Time	DAY			
	26	27	28	29
10:00	4	2	6	7
11:00	11	1	1	10
12:00	3	7	4	6
1:00	5	8	5	7
2:00	7	4	4	6
3:00	9	5	7	7
4:00	6	9	3	1

Types of vehicles counted: Site 212

DAY												
26						27						
Time	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	3	1	0	0	0	4	1	0	0	0	1	2
11:00	9	2	0	0	0	11	1	0	0	0	0	1
12:00	2	1	0	0	0	3	5	0	0	0	2	7
1:00	4	1	0	0	0	5	5	1	0	1	1	8
2:00	7	0	0	0	0	7	4	0	0	0	0	4
3:00	8	1	0	0	0	9	5	0	0	0	0	5
4:00	6	0	0	0	0	6	9	0	0	0	0	9

(continued)

Types of vehicles counted: Site 212

DAY												
28						29						
Time	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	6	0	0	0	0	6	6	0	0	1	0	7
11:00	1	0	0	0	0	1	7	3	0	0	0	10
12:00	1	2	0	1	0	4	6	0	0	0	0	6
1:00	4	0	0	0	1	5	6	0	0	1	0	7
2:00	3	1	0	0	0	4	6	0	0	0	0	6
3:00	7	0	0	0	0	7	5	1	0	1	0	7
4:00	3	0	0	0	0	3	0	0	0	1	0	1

Weather Conditions: Site 212

DAY									
26		27		28		29			
Time	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	
10:00	2	0	2	0	1	0	5	0	
11:00	1	0	1	0	3	0	5	0	
12:00	1	0	3	0	1	0	4	0	
1:00	1	0	3	0	3	0	4	0	
2:00	1	0	1	0	1	0	4	0	
3:00	3	0	1	0	1	0	4	0	
4:00	3	0	3	0	1	0	3	0	

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Tipsoo Lake Parking Lot/213

Total vehicles in lot

Time	DAY			
	26	27	28	29
10:00	11	13	3	1
11:00	22	22	8	3
12:00	22	46	18	6
1:00	41	49	18	5
2:00	41	50	18	2
3:00	25	51	14	5
4:00	28	32	12	1

Types of vehicles counted: Site 213

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	11	0	0	0	0	11	12	1	0	0	0	13
11:00	21	1	0	0	0	22	19	3	0	0	0	22
12:00	22	0	0	0	0	22	45	1	0	0	0	46
1:00	41	0	0	0	0	41	49	0	0	0	0	49
2:00	41	0	0	0	0	41	48	2	0	0	0	50
3:00	24	0	0	0	1	25	48	3	0	0	0	51
4:00	27	0	0	0	1	28	31	1	0	0	0	32

(continued)

Types of vehicles counted: Site 213

Time	DAY											
	28						29					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	1	1	0	1	0	3	1	0	0	0	0	1
11:00	8	0	0	0	0	8	3	0	0	0	0	3
12:00	17	0	0	1	0	18	3	1	0	2	0	6
1:00	17	0	0	1	0	18	3	0	0	2	0	5
2:00	17	0	0	1	0	18	1	1	0	0	0	2
3:00	14	0	0	0	0	14	5	0	0	0	0	5
4:00	12	0	0	0	0	12	1	0	0	0	0	1

Weather Conditions: Site 213

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	5	0
12:00	1	0	1	0	1	0	5	0
1:00	1	0	1	0	1	0	5	0
2:00	3	0	1	0	1	0	5	0
3:00	3	0	1	0	1	0	5	0
4:00	9	0	1	0	1	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Tipsoo Lake Pull-Offs/214

Total vehicles in lot

Time	DAY			
	26	27	28	29
	10:00	1	4	2	0
11:00	1	8	3	0
12:00	2	8	3	0
1:00	0	10	4	0
2:00	3	14	3	0
3:00	5	14	6	0
4:00	9	7	2	0

Types of vehicles counted: Site 214

Time	DAY											
	26						27					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	1	0	0	0	0	1	4	0	0	0	0	4
11:00	1	0	0	0	0	1	8	0	0	0	0	8
12:00	2	0	0	0	0	2	8	0	0	0	0	8
1:00	0	0	0	0	0	0	10	0	0	0	0	10
2:00	3	0	0	0	0	3	14	0	0	0	0	14
3:00	5	0	0	0	0	5	14	0	0	0	0	14
4:00	9	0	0	0	0	9	7	0	0	0	0	7

(continued)

Types of vehicles counted: Site 214

Time	DAY											
	28						29					
	Cars	RVs	Buses	Govt.	MCycle	Total	Cars	RVs	Buses	Govt.	MCycle	Total
10:00	2	0	0	0	0	2	0	0	0	0	0	0
11:00	3	0	0	0	0	3	0	0	0	0	0	0
12:00	2	1	0	0	0	3	0	0	0	0	0	0
1:00	3	1	0	0	0	4	0	0	0	0	0	0
2:00	2	1	0	0	0	3	0	0	0	0	0	0
3:00	6	0	0	0	0	6	0	0	0	0	0	0
4:00	2	0	0	0	0	2	0	0	0	0	0	0

Weather Conditions: Site 214

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	1	0	1	0	5	0
11:00	1	0	1	0	1	0	5	0
12:00	1	0	1	0	1	0	5	0
1:00	1	0	1	0	1	0	5	0
2:00	1	0	1	0	1	0	5	0
3:00	3	0	1	0	1	0	3	0
4:00	3	0	1	0	1	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Data collected: Facilities.

The visitor use data for facilities are presented below in pairs of tables. For each facility, the upper table shows the number of visitors present at each time indicated and the lower shows the weather conditions that were present during data collection.

**Interpreting Data Tables From Survey Period 3:
Facilities**

In each pair of tables that follow, the first table is laid out in 4 columns of 7 numbers. Each number represents the number of visitors present in a facility or specified sub-section of a facility at a particular time on a specified day. Labels are provided above and to the left of the data to define exactly when each count was taken.

If I wished to know the number of visitors in the Longmire Museum at 11:00 on August 27 I would first look at the labels above the first Longmire Museum table to find the column of data representing the 27th. I would then move down that column to the line labeled "11:00" on the left and find that 33 visitors were present at the time of interest.

If I wished to know the weather at the observation site at the time when those 33 visitors were present, I could move to the second table, find the column of data under the 27th labeled "weather" and find the weather code "1" recorded at 11:00 indicating that it was sunny and warm at the time when the observation was made.

Longmire Museum/301

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
10:00	2	12	3	4
11:00	19	33	10	19
12:00	7	42	10	10
1:00	17	22	21	11
2:00	9	14	12	9
3:00	0	20	8	6
4:00	18	20	2	4

Longmire Museum/301

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	1	0	1	0	5	0
11:00	1	0	1	0	2	0	4	0
12:00	1	0	1	0	1	0	4	0
1:00	1	0	1	0	2	0	4	0
2:00	2	1	9	0	1	1	4	0
3:00	3	1	9	0	1	1	3	0
4:00	3	0	9	0	2	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

On August 27, the 3:00 and 4:00 count are estimates due to observer error.

Jackson Visitor Center Lobby/302

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
10:00	11	22	7	21
11:00	23	29	11	7
12:00	23	13	12	25
1:00	26	31	14	25
2:00	24	23	14	16
3:00	35	20	21	16
4:00	28	47	15	28

Jackson Visitor Center Lobby/302

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	2	0	5	0
11:00	2	0	2	0	2	0	7	0
12:00	2	0	2	0	4	0	7	0
1:00	2	0	2	0	2	0	7	0
2:00	2	0	2	0	4	0	4	0
3:00	4	0	2	0	4	0	4	0
4:00	4	0	2	0	2	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Slide Show/304

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
10:00	27	9	12	5
11:00	16	24	2	13
12:00	18	17	16	0
1:00	56	31	9	.
2:00	22	29	10	28
3:00	79	47	23	26
4:00	50	30	2	9

Jackson Visitor Center Slide Show/304

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	3	0	5	0
11:00	2	0	2	0	3	0	7	0
12:00	2	0	2	0	3	0	7	0
1:00	2	0	1	0	3	0	7	0
2:00	4	0	1	0	3	0	7	0
3:00	4	0	1	0	4	0	7	0
4:00	4	0	2	0	4	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Sunrise Visitor Center/306

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
10:00	11	13	7	3
11:00	23	30	6	6
12:00	31	22	13	15
1:00	34	32	24	24
2:00	26	47	29	6
3:00	41	59	24	13
4:00	39	37	23	12

Sunrise Visitor Center/306

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	7	0	2	0	4	0	7	0
11:00	7	0	2	0	4	0	7	0
12:00	3	0	4	0	4	0	5	0
1:00	1	0	3	0	4	0	5	0
2:00	4	0	1	0	4	0	4	0
3:00	3	0	1	0	4	0	4	0
4:00	3	0	4	0	3	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

People who were on the observation deck outside are included in the count that was entered into the SPSS file. The data collection sheets show the number of people inside the visitor vs. outside.

"Dance Floor" past Alta Vista loop/307

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
10:00	0	7	0	0
11:00	6	5	0	0
12:00	6	12	0	1
1:00	8	10	10	0
2:00	32	32	8	7
3:00	4	15	2	0
4:00	.	.	20	6

"Dance Floor" past Alta Vista loop/307

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	9	0	1	0	.	0	7	0
11:00	9	0	1	0	1	0	7	0
12:00	9	0	3	0	1	0	7	0
1:00	9	0	1	0	1	0	7	0
2:00	9	0	1	0	1	0	7	0
3:00	9	0	3	0	1	0	7	0
4:00	9	0	3	0	3	0	9	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Jackson Visitor Center Exhibit Rooms/308

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
10:00	36	7	3	26
11:00	21	18	11	15
12:00	14	13	7	34
1:00	36	21	8	26
2:00	46	56	9	13
3:00	25	23	29	12
4:00	28	38	20	19

Jackson Visitor Center Exhibit Rooms/308

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	4	0	2	0	3	0	5	0
11:00	2	0	2	0	3	0	7	0
12:00	2	0	2	0	3	0	7	0
1:00	2	0	1	0	3	0	7	0
2:00	4	0	1	0	3	0	7	0
3:00	4	0	1	0	4	0	7	0
4:00	4	0	2	0	4	0	7	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Ohanapecosh Visitor Center/309

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
	10:00	10	2	10	4
11:00	29	14	2	20
12:00	20	13	4	13
1:00	8	5	3	7
2:00	7	9	9	2
3:00	5	9	9	13
4:00	3	9	10	5

Ohanapecosh Visitor Center/309

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
10:00	2	0	2	0	1	0	5	0
11:00	1	0	1	0	3	0	5	0
12:00	1	0	3	0	1	0	4	0
1:00	1	0	3	0	3	0	4	0
2:00	1	0	1	0	1	0	4	0
3:00	3	0	1	0	1	0	4	0
4:00	3	0	3	0	1	0	3	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain; 7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

Tipsoo Lake Trail/190

PEOPLE IN FACILITIES

Time	DAY			
	26	27	28	29
	10:00	0	7	4	0
11:00	10	7	2	0
12:00	4	20	4	2
1:00	13	16	7	0
2:00	22	45	10	0
3:00	12	35	7	8
4:00	19	24	3	4

Tipsoo Lake Trail/190

Weather and wind conditions outside observed facility.

Time	DAY							
	26		27		28		29	
	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND	WEATHER	WIND
11:00	4	0	1	0	3	0	5	0
12:00	1	0	3	0	3	0	4	0
1:00	1	0	3	0	3	0	5	0
2:00	2	0	3	0	4	0	4	0
3:00	3	0	1	0	3	0	4	0
4:00	4	0	3	0	4	0	4	0

1=Sunny/Warm; 2=Sunny/Cold; 3=Cloudy/Warm; 4=Cloudy/Cold; 5=Light rain; 6=Heavy rain;
7=Fog; 8=Snow/Sleet/Hail. Wind - 0=No wind; 1=Windy.

VIII. SUMMARY DATA ACROSS ALL SURVEY PERIODS

In this section data are summarized across all survey periods in order to show visitation patterns for weekdays and weekends. This aggregation could create a misleading picture of visitation if July visitation patterns differ substantially from those observed in August. It has been pointed out earlier that many trails in the Paradise and Sunrise areas remain snow-covered in July. In addition, warm stretches of dry weather are more common in August. Both these factors could conceivably make visitation patterns in July both quantitatively and qualitatively different than that in August. Examination of the data showed that although visitation was generally lower during the July survey period (a difference most likely due to the less pleasant weather present during that survey period), the pattern of visitor distribution was similar across the majority of sites. The exception was that in the July data, sites in the Sunrise area had lower visitation rates in relation to the rest of MORA. One possible reason for this discrepancy might be the previously noted highway sign that incorrectly indicated that Sunrise was closed during the July survey period. Because most observed sites showed similar visitation patterns in the July and August survey periods, a decision was made to present the data below as an aggregation of all survey periods. However, because of the differences in July visitation at Sunrise, the figures below describing sites in that area should be interpreted with caution, particularly in relation to sites in other areas of MORA. In such comparisons, the data from the July survey period will slightly decrease the magnitude of visitor density for sites in the Sunrise area.

Data collected: Trail sites.

The visitor use data for trail sites combined across all survey periods are presented in the figures below. Each site is described by two figures, one showing the average pattern of weekday use and one showing weekend use. Each figure shows the average number of visitors that were observed entering and leaving the trail at each observation point for each hourly observation period.

Table 8.1 shows the site names as well as the codes used to identify them in the database. It also serves as a table of contents useful in finding specific figures presenting summarized visitor use data.

Interpreting Summary Data Figures for Trail Use

In each of the following figures, data are represented by 6 groups of 2 bars. Each bar represents the average number of visitors passing a defined point on a trail while moving in a specified direction (either "in" or "out" on the trail) during the specified hour. Labels are provided in the title, on the axes, and in the legend to define exactly the type of day, the hour, and the direction of travel that is represented.

If I wished to know the average number of visitors entering the Comet Falls trail between 11:00 and 12:00 on weekends I would first use Table 8.1 to find the page where the Comet Falls charts are displayed (in this case, page 317). I would then turn to page 317 and read the titles of the two Comet Falls charts to find the chart for weekends. I know that because the Comet Falls trail leaves the parking lot and leads away from the road that entering the trail and moving toward Comet Falls is clearly the "in" direction. However, if I have any confusion about the direction defined as "in" I can refer to the site maps in Figures 6.1 to 6.9, find the Comet Falls observation site and observe the arrow showing which direction is defined as "in". Because I am interested in the number of visitors entering the trail I can tell from the legend that I should refer to the darker gray bars. I move across the X-axis to the set of bars labeled "11:00-12:00", look at the dark gray bar, and find that on weekends an average of 32 hikers entered the Comet Falls trail during the hour of interest.

Before making any further conclusions, I should note the number of observations upon which the average is based. The more observations made, the greater degree of confidence I should have in the observed number. For the Comet Falls weekend averages, the legend indicates that the $N=6$. This means that observations from 6 days were used to compute the average number of hikers charted. This is the maximum number of observations possible given our research design. Averages based on 4 or 2 days are more likely to be inaccurate.

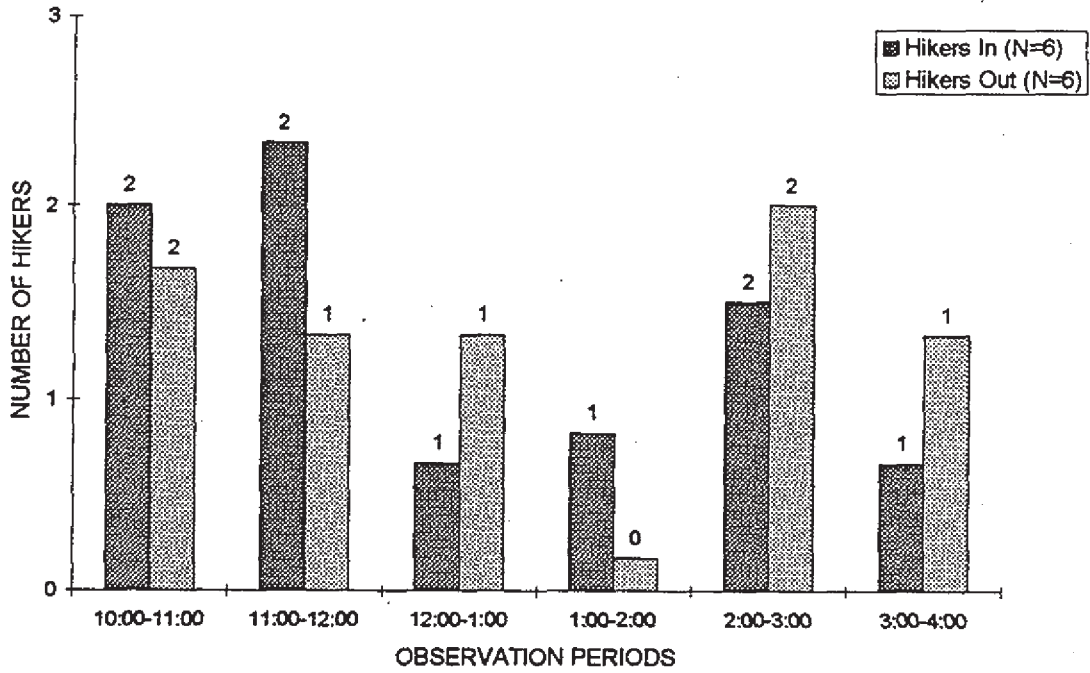
Table 8.1: Surveyed trail sites and page numbers of corresponding figures summarizing use.

101. Westside Road	280
102. Beginning Of The Trail Of The Shadows	281
104. Rampart Ridge Trail At Junction Of Trail Of Shadows.....	282
105. Rampart Ridge At Junction Of Wonderland To Paradise	283
106. Wonderland Trail To Paradise At Junction Of Rampart Ridge	284
107. Eagle Peak Trail.....	285
108. Comet Falls Trail.....	286
109. Dead Horse Trail At Junction Of Nisqually Vista	287
110. Nisqually Vista Loop At Junction Of Dead Horse Trail	288
111. Trail To Alta Vista From Parking Lot And Road	289
112. Skyline Trail At Trail To Dead Horse Trail	290
113. Trail To Dead Horse At Junction Of Skyline	291
114. Lakes Trail	292
115. Trail Across From Parking Lot At Grove Of Patriarchs	293
116. Grove Of The Patriarchs	294
117. Rim Trail At Rim/Emmons Junction.....	295
118. Emmons Vista Trail At Rim/Emmons Junction	296
119. Other End Of Rim Trail At Junction Of Pet Loop Trail	297
120. Pet Loop Trail.....	298
121. Nature Trail At Sunrise.....	299
123. Narada Falls Trail	300
124. Pet Loop Trail At Junction With Rim Trail.....	301
125. Trail Close To Paradise Inn	302
126. Kautz Creek Trail	303
127. Wonderland Trail/Trail To Van Trump Park Junction	304
128. Trail To Van Trump Park/Wonderland Trail Junction	305
129. Van Trump Park: To End Of Maintained Trail.....	306
130. Skyline Trail Past Dance Floor	307
131. Pebble Creek	308
132. Lakes Trail/Skyline Trail Junction.....	309
133. Skyline Trail/Lakes Trail Junction.....	310
134. Pinnacle Peak Trail.....	311
135. Trail In Front Of Reflection Lakes	312
136. Reflection Lakes Trail (West)/Wonderland Trail Junct.	313
137. Wonderland Trail/Reflection Lakes (West) Junction	314
138. Reflection Lakes (East)/Wonderland Trail Junction.....	315
139. Wonderland Trail/Reflection Lakes (East) Junction.....	316
140. Bench Lake Trail.....	317
141. Box Canyon Loop Trail	318
143. Naches Peak Trail (Enter From Park).....	319
144. Naches Peak Trail (Enter From Pacific Crest Trail).....	320

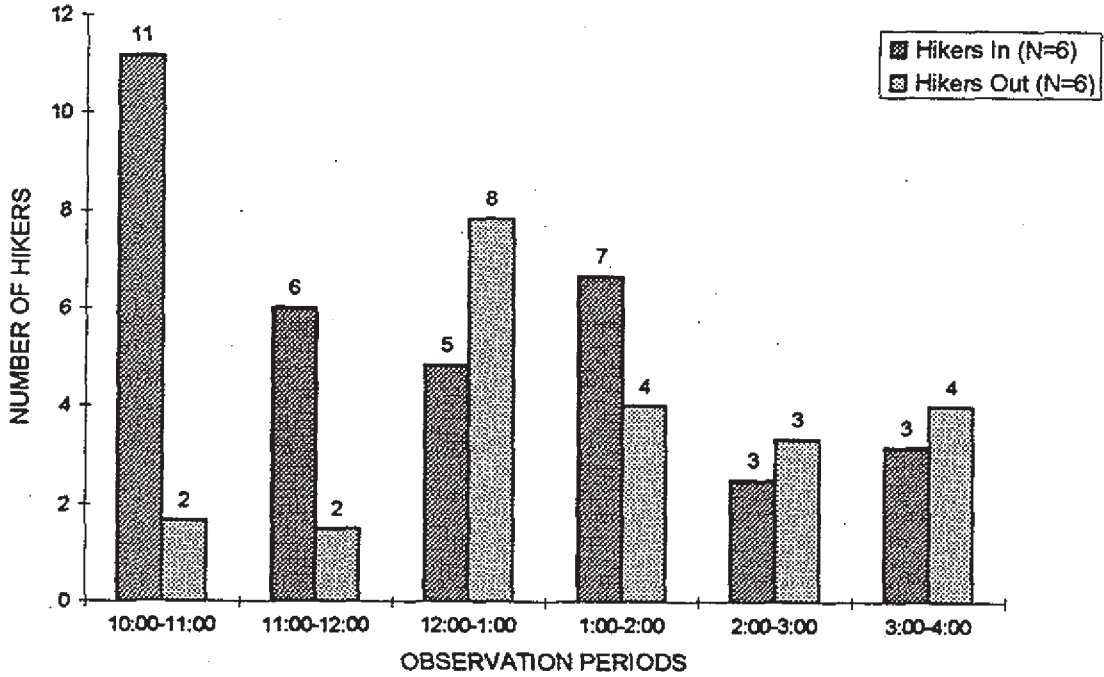
145. Wonderland/Mt. Freemont/Burroughs/Sunrise Camp Junction.....	321
146. Mt. Freemont/Wonderland/Burroughs/Sunrise Camp Junction.....	322
147. Burroughs/Mt. Freemont/Wonderland/Sunrise Camp Junction.....	323
148. End Point Of Glacier Basin	324
149. Huckleberry Creek Trail	325
150. Lake Eleanor Trail Into Forest Service Land	326
151. Lake Eleanor Trail Into Park	327
152. Curtis Way Trail/Wonderland Trail Junction.....	328
154. Upper Tipsoo Lake.....	329
156. Sunrise Camp/Mt. Freemont/Wonderland/Burroughs Junction.....	330
158. Van Trump Park: To Mildred Point.....	331

For figures representing the "snapshot" counts of visitors present at the Tipsoo Lake Trail, the "Dance Floor" on the Skyline Trail North of Alta Vista, and the Glacier Basin, Lake Eleanor, and Mystic Lake campgrounds, see the section below entitled Data Collected: Facilities. "Snapshot" counts were collected in those areas because they were well defined areas in which management might wish to know the number of people that were present at one time.

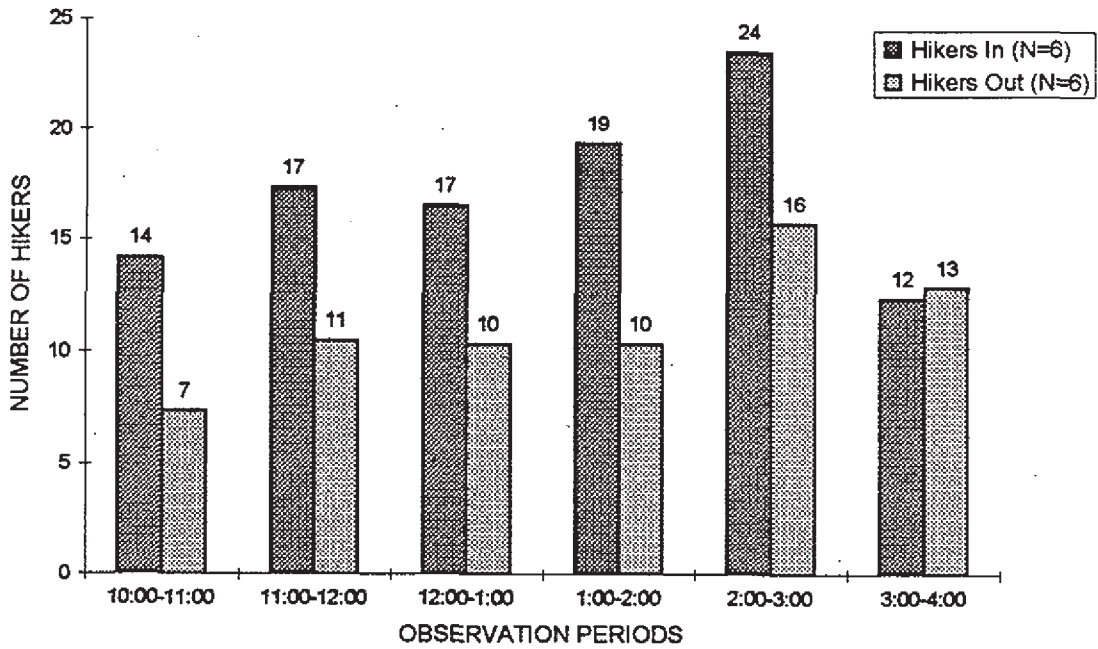
HIKERS ENTERING AND LEAVING WESTSIDE ROAD (SITE 101) ON OBSERVED WEEKDAYS



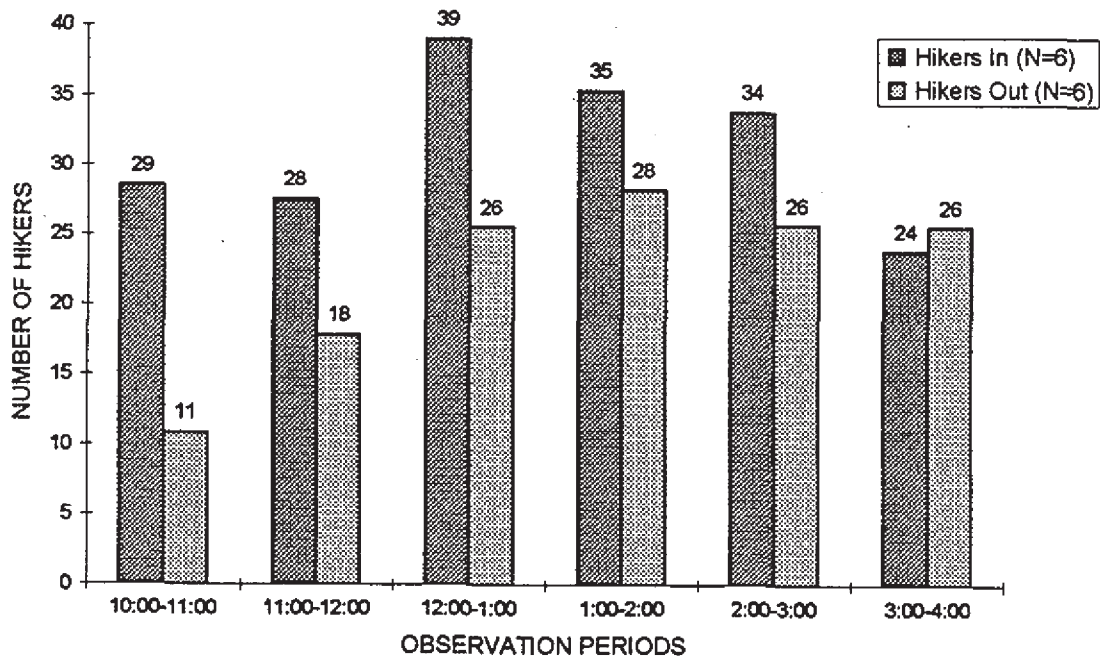
HIKERS ENTERING AND LEAVING WESTSIDE ROAD (SITE 101) ON OBSERVED WEEKENDS



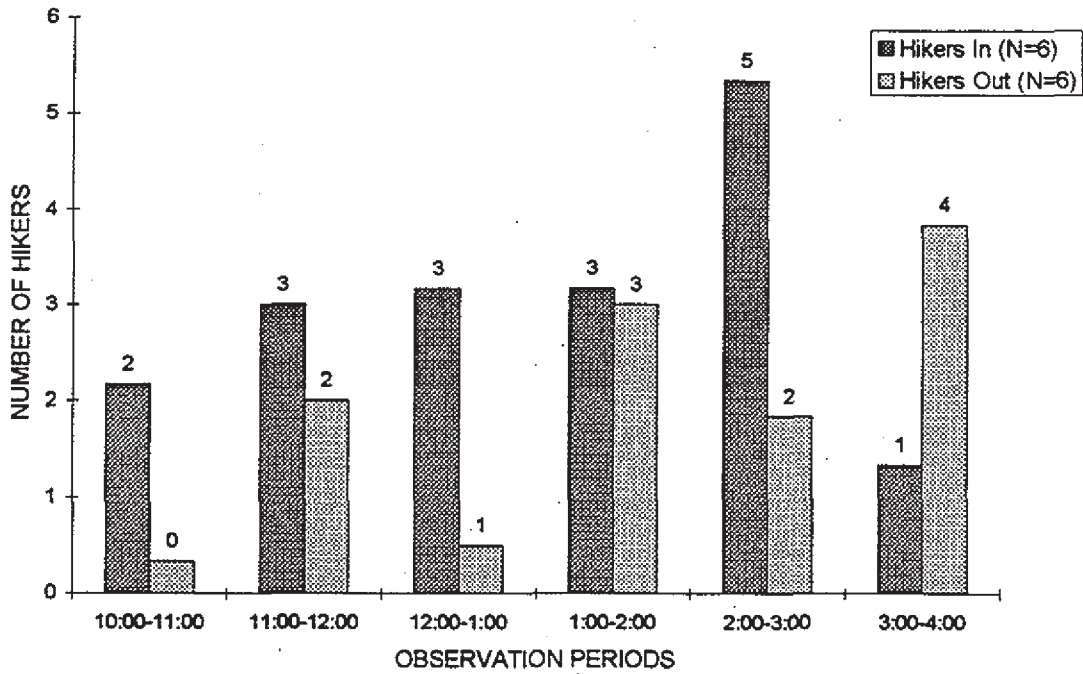
**HIKERS ENTERING AND LEAVING TRAIL OF SHADOWS (SITE 102)
ON OBSERVED WEEKDAYS**



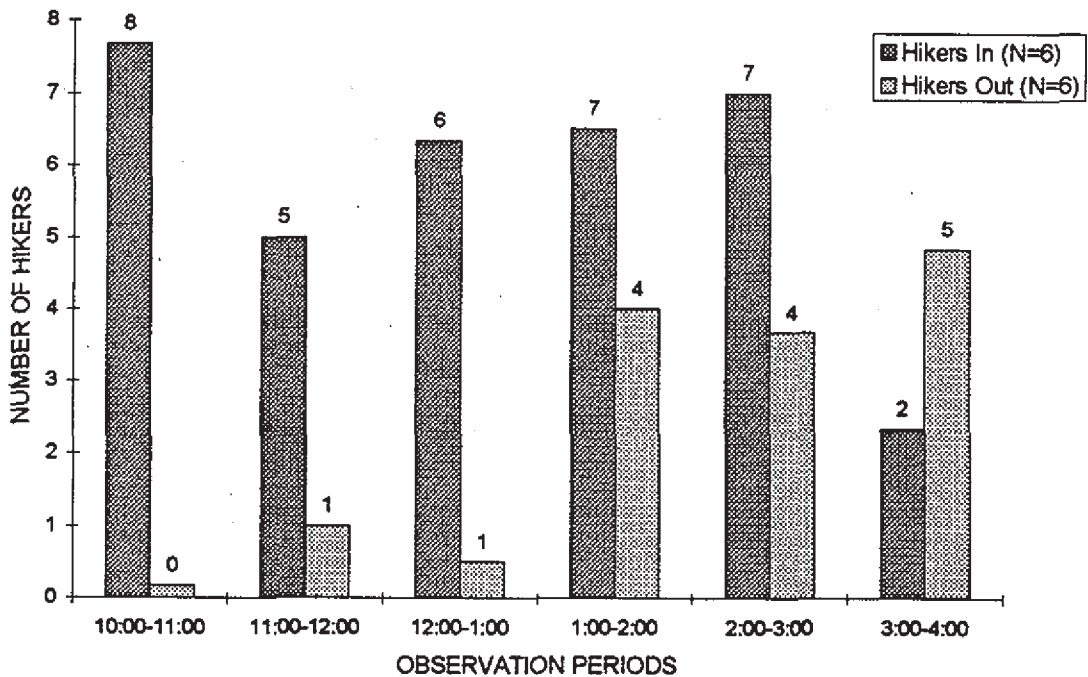
**HIKERS ENTERING AND LEAVING TRAIL OF SHADOWS (SITE 102)
ON OBSERVED WEEKENDS**



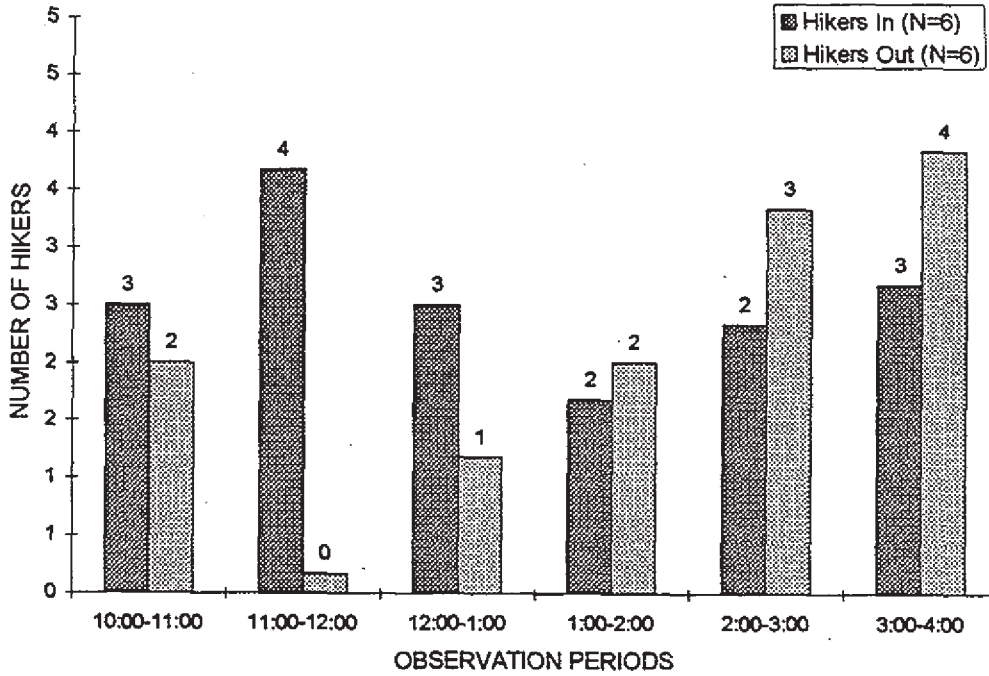
**HIKERS ENTERING AND LEAVING RAMPART/SHADOWS JUNCTION
(SITE 104) ON OBSERVED WEEKDAYS**



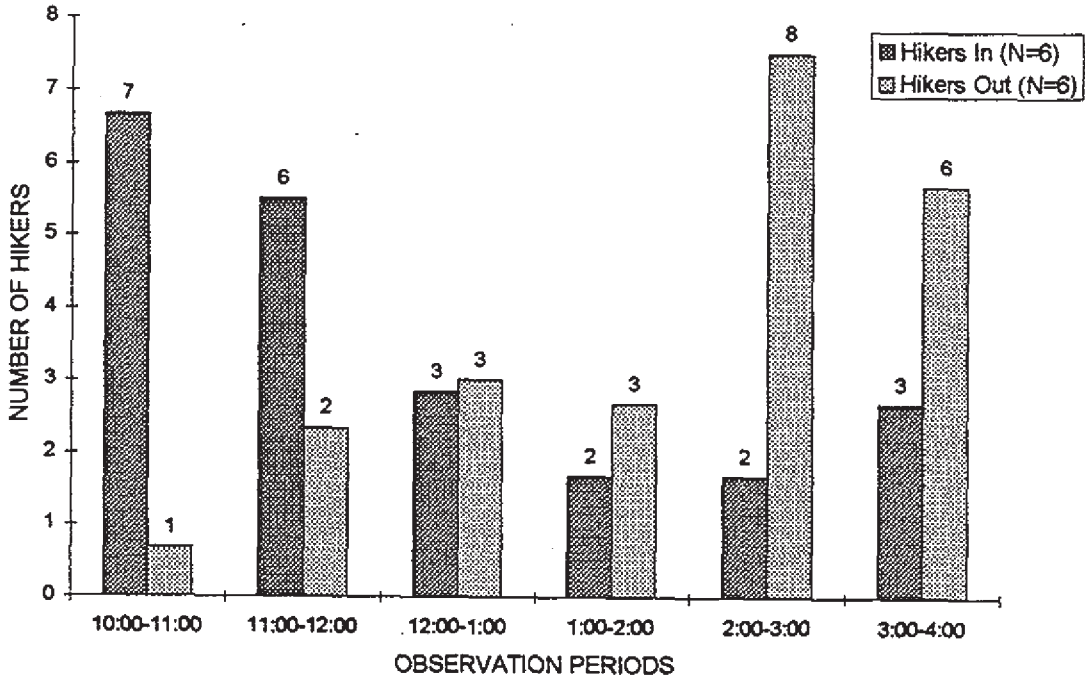
**HIKERS ENTERING AND LEAVING RAMPART/SHADOWS JUNCTION
(SITE 104) ON OBSERVED WEEKENDS**



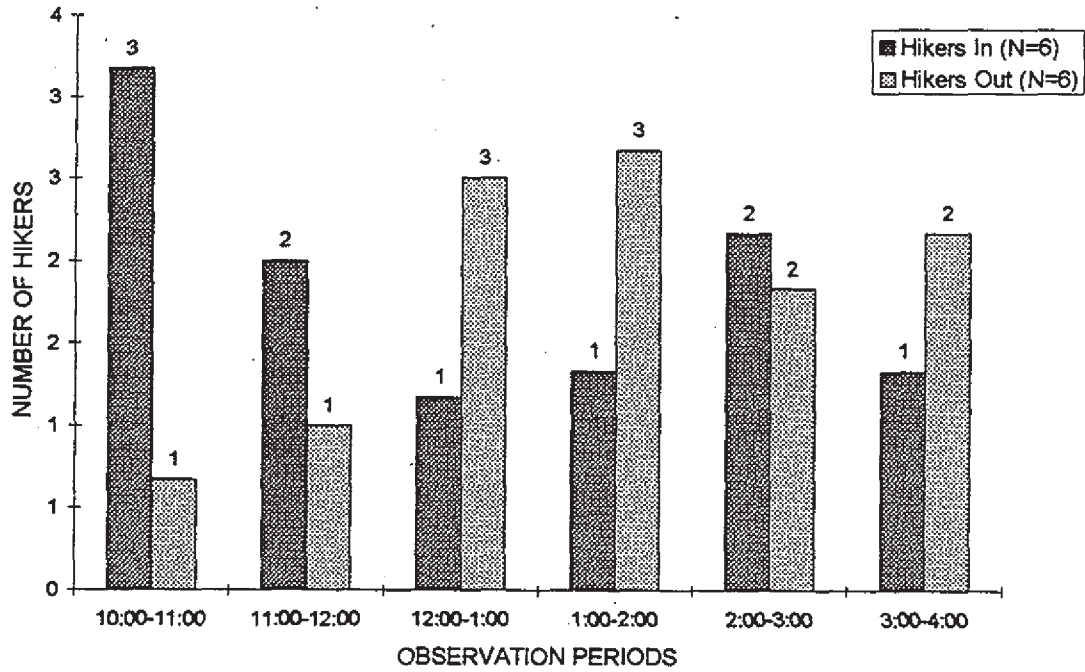
HIKERS ENTERING AND LEAVING RAMPART/WONDERLAND JUNCTION (SITE 105) ON OBSERVED WEEKDAYS



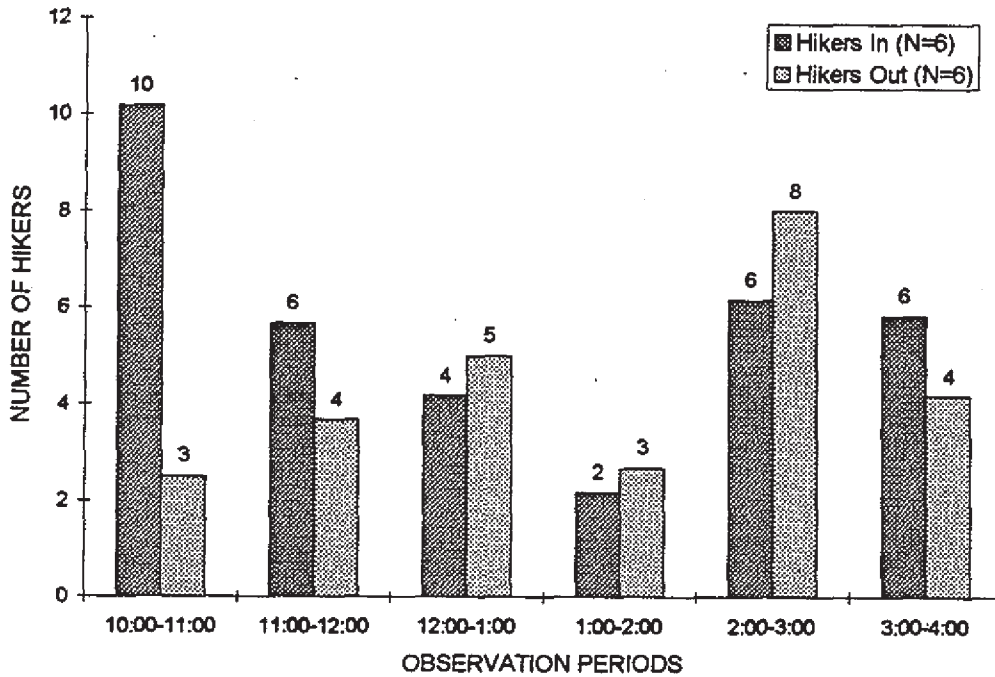
HIKERS ENTERING AND LEAVING RAMPART/WONDERLAND JUNCTION (SITE 105) ON OBSERVED WEEKENDS



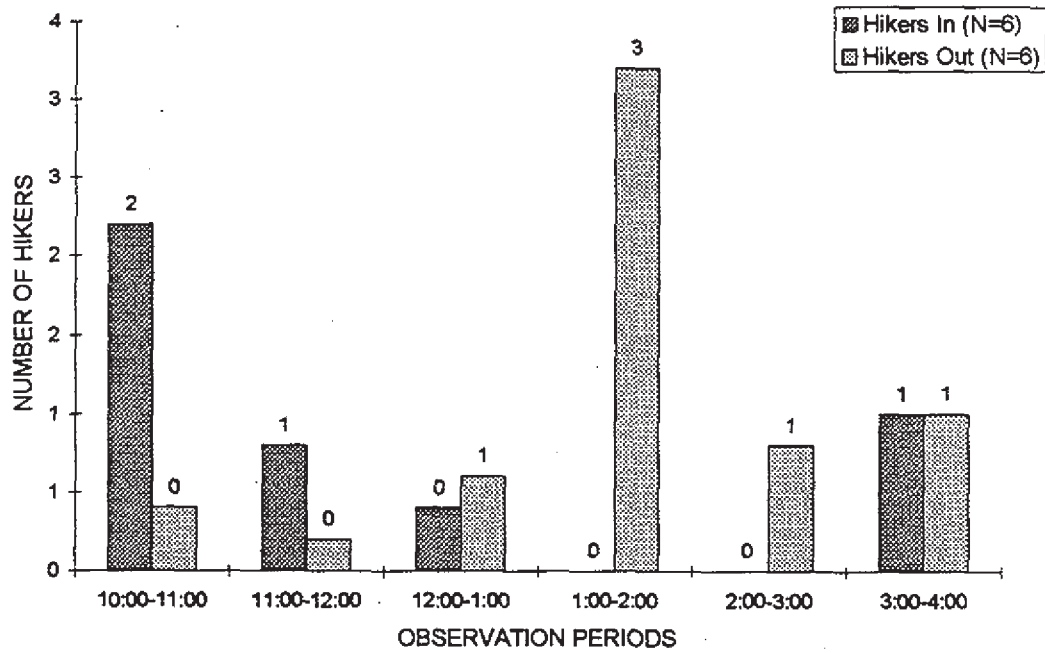
HIKERS ENTERING AND LEAVING WONDERLAND/RAMPART JUNCTION (SITE 106) ON OBSERVED WEEKDAYS



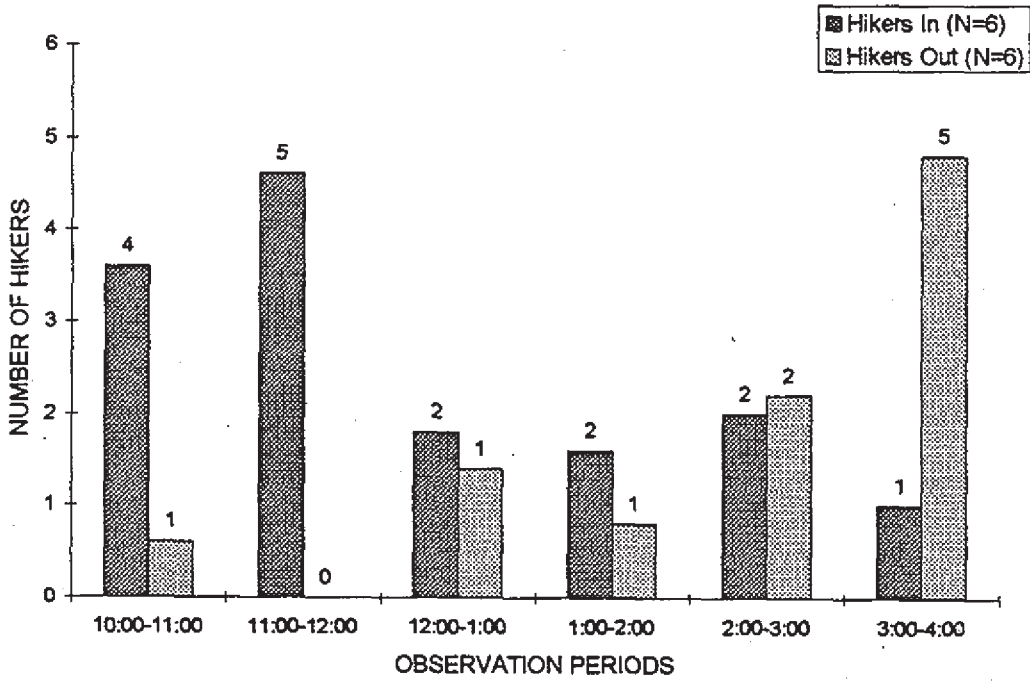
HIKERS ENTERING AND LEAVING WONDERLAND/RAMPART JUNCTION (SITE 106) ON OBSERVED WEEKENDS



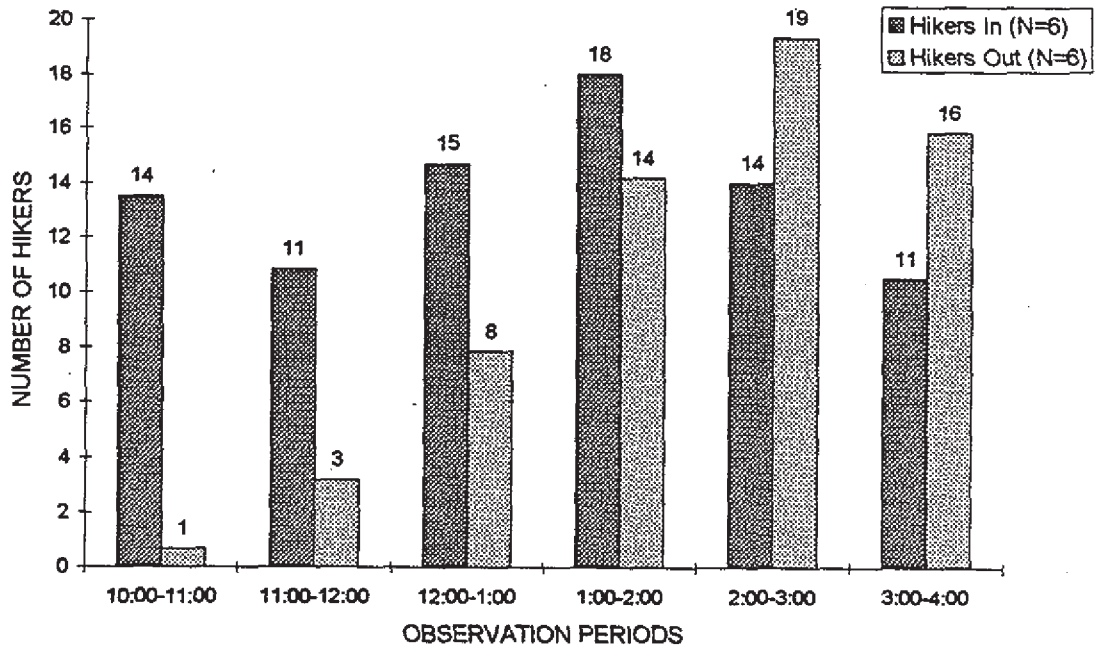
**HIKERS ENTERING AND LEAVING EAGLE PEAK TRAIL (SITE 107)
ON OBSERVED WEEKDAYS**



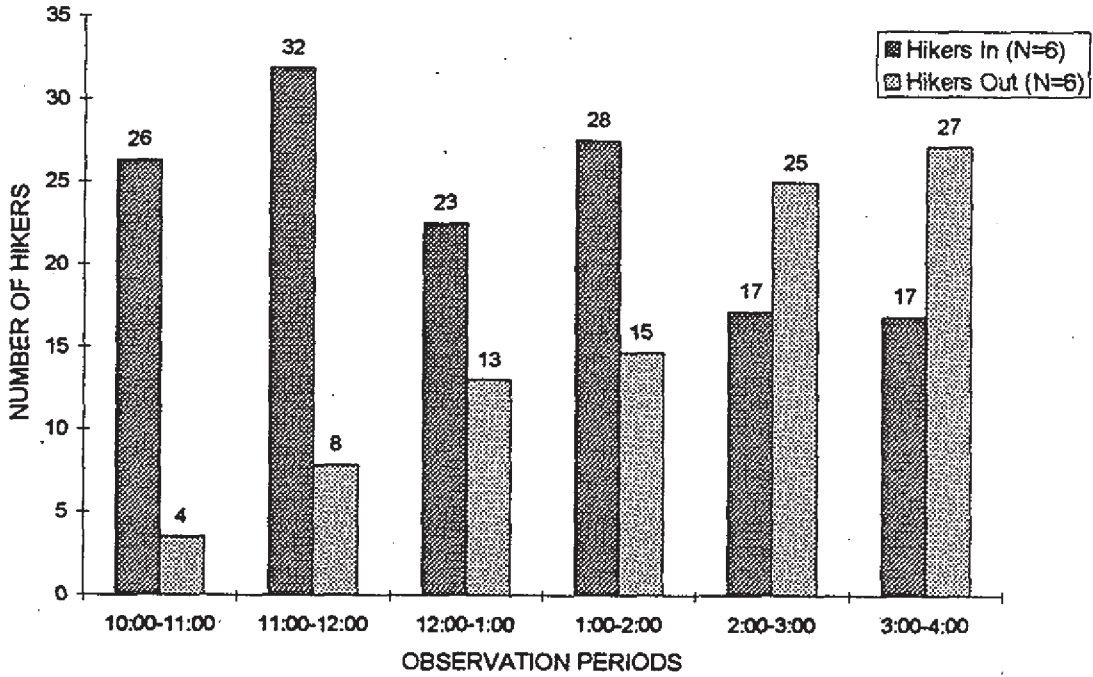
**HIKERS ENTERING AND LEAVING EAGLE PEAK TRAIL (SITE 107)
ON OBSERVED WEEKENDS**



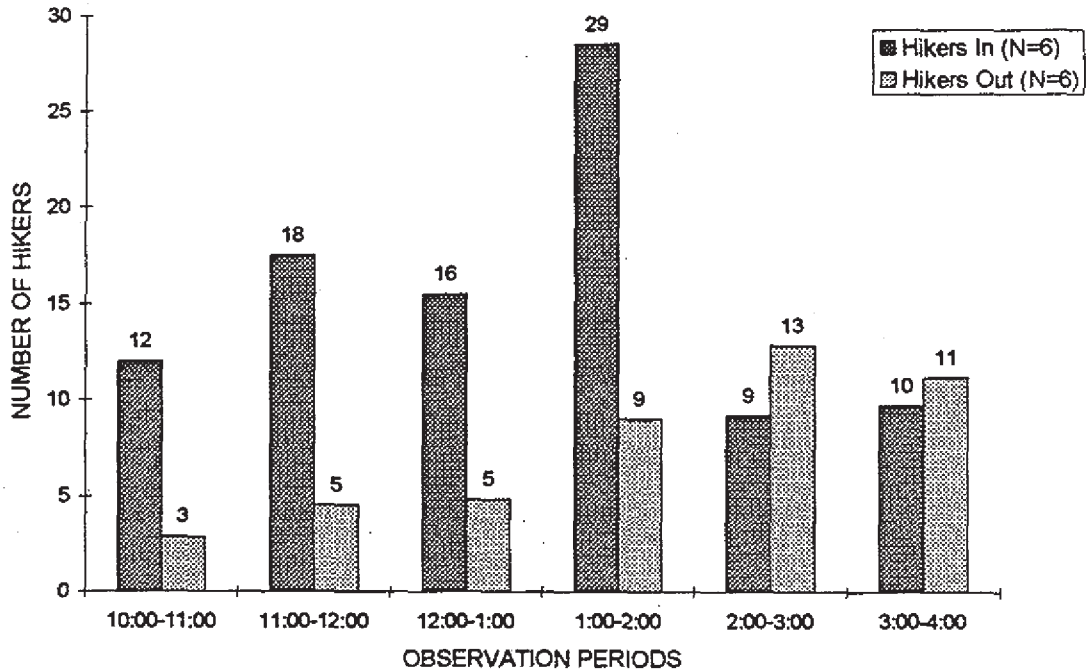
**HIKERS ENTERING AND LEAVING COMET FALLS TRAIL (SITE 108)
ON OBSERVED WEEKDAYS**



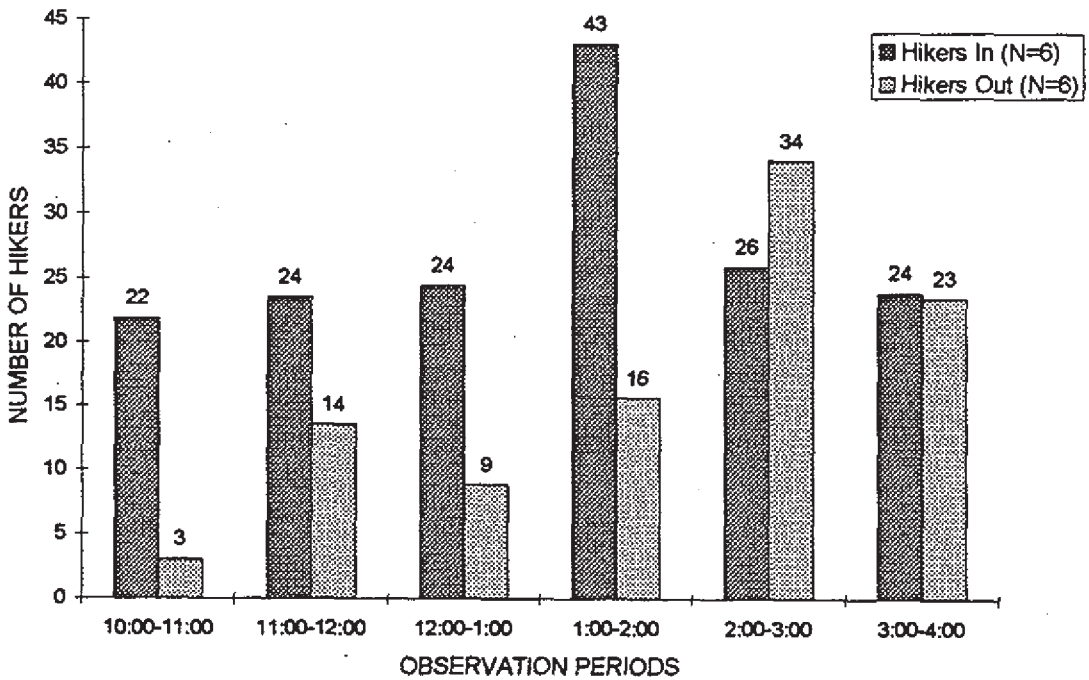
**HIKERS ENTERING AND LEAVING COMET FALLS TRAIL (SITE 108)
ON OBSERVED WEEKENDS**



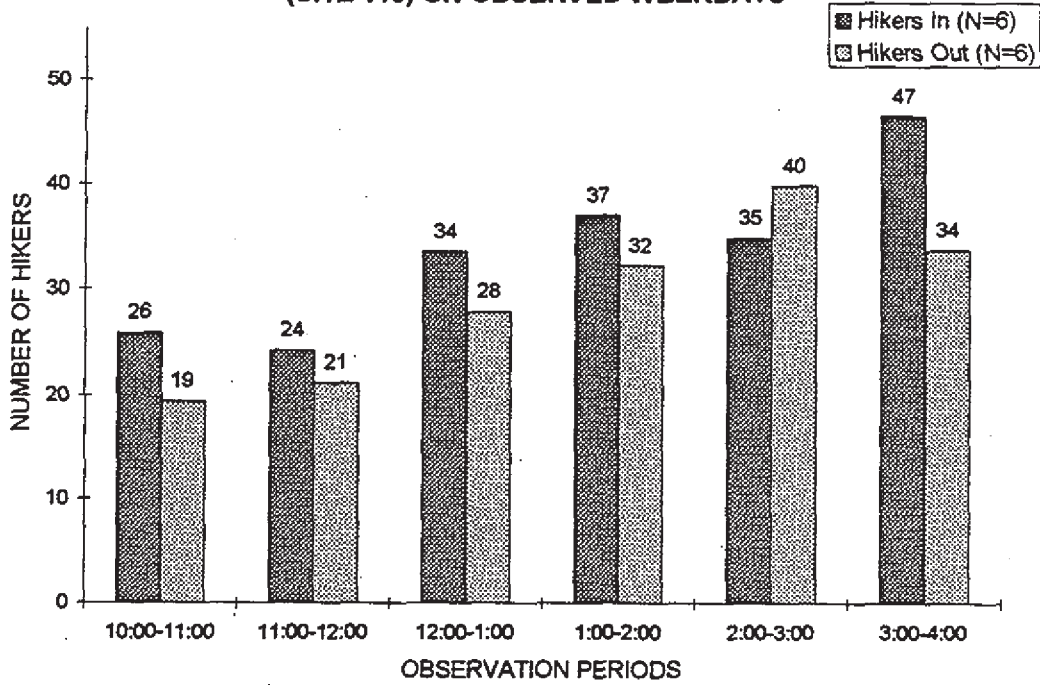
HIKERS ENTERING AND LEAVING NISQUALLY/DEAD HORSE JUNCTION (SITE 109) ON OBSERVED WEEKDAYS



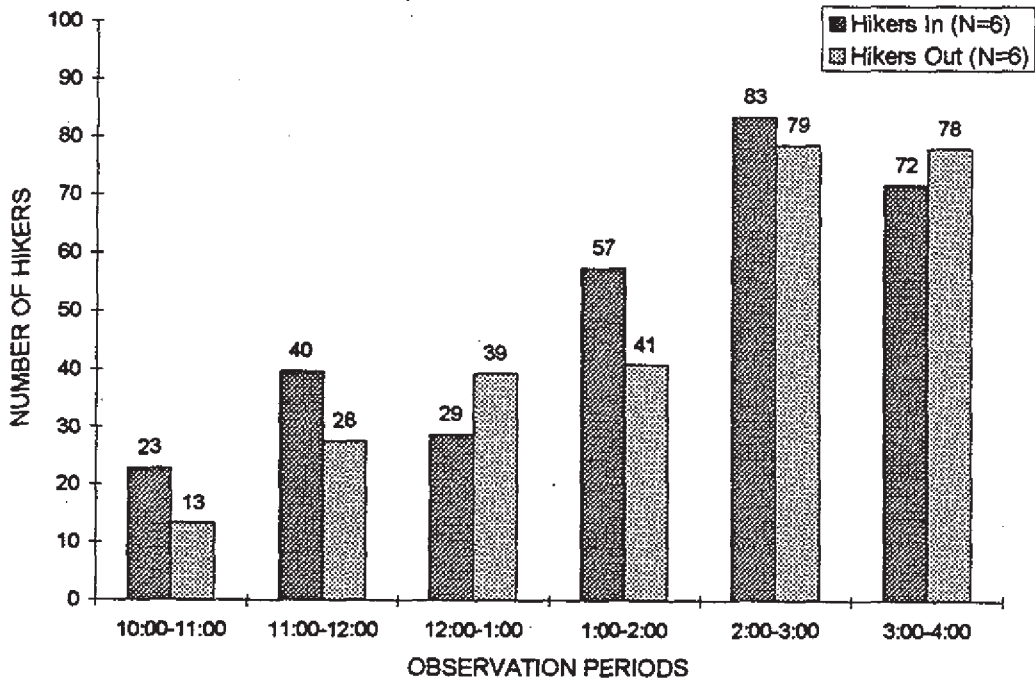
HIKERS ENTERING AND LEAVING NISQUALLY/DEAD HORSE JUNCTION (SITE 109) ON OBSERVED WEEKENDS



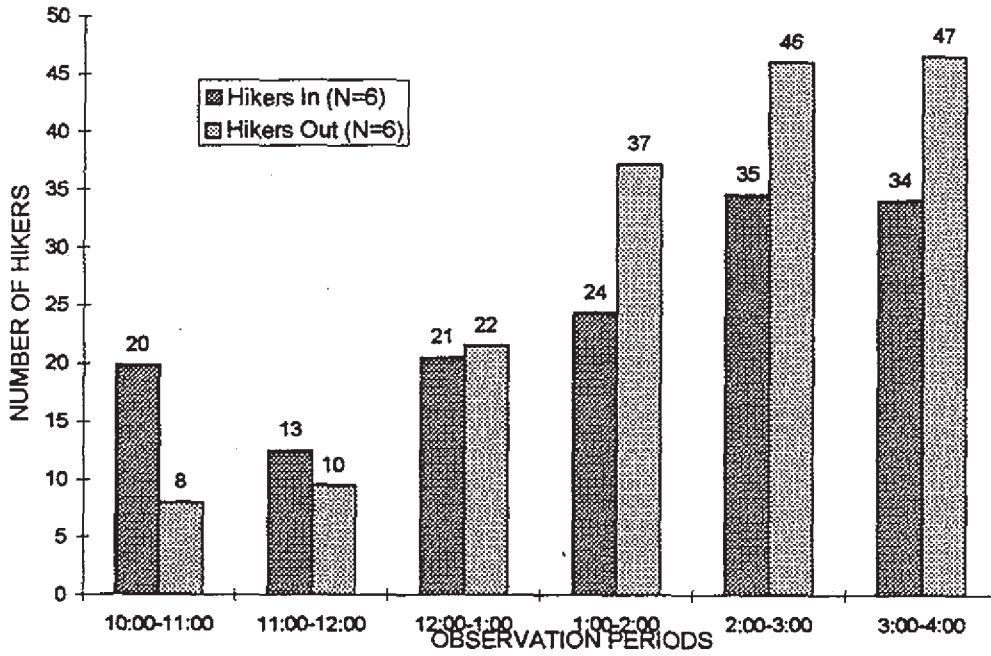
**HIKERS ENTERING AND LEAVING DEAD HORSE/NISQUALLY
(SITE 110) ON OBSERVED WEEKDAYS**



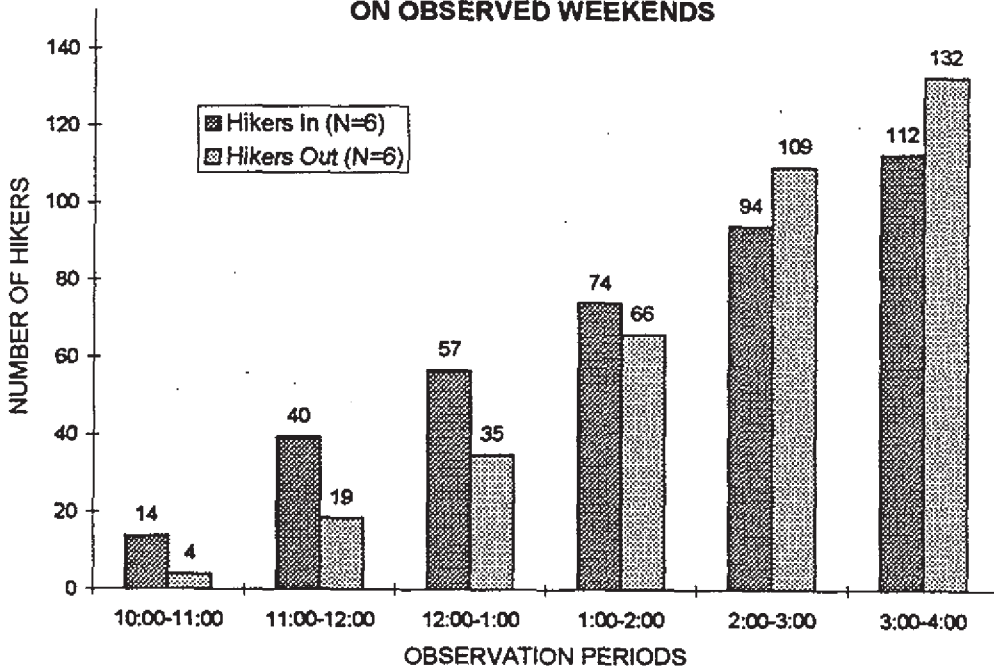
**HIKERS ENTERING AND LEAVING DEAD HORSE/NISQUALLY
(SITE 110) ON OBSERVED WEEKENDS**



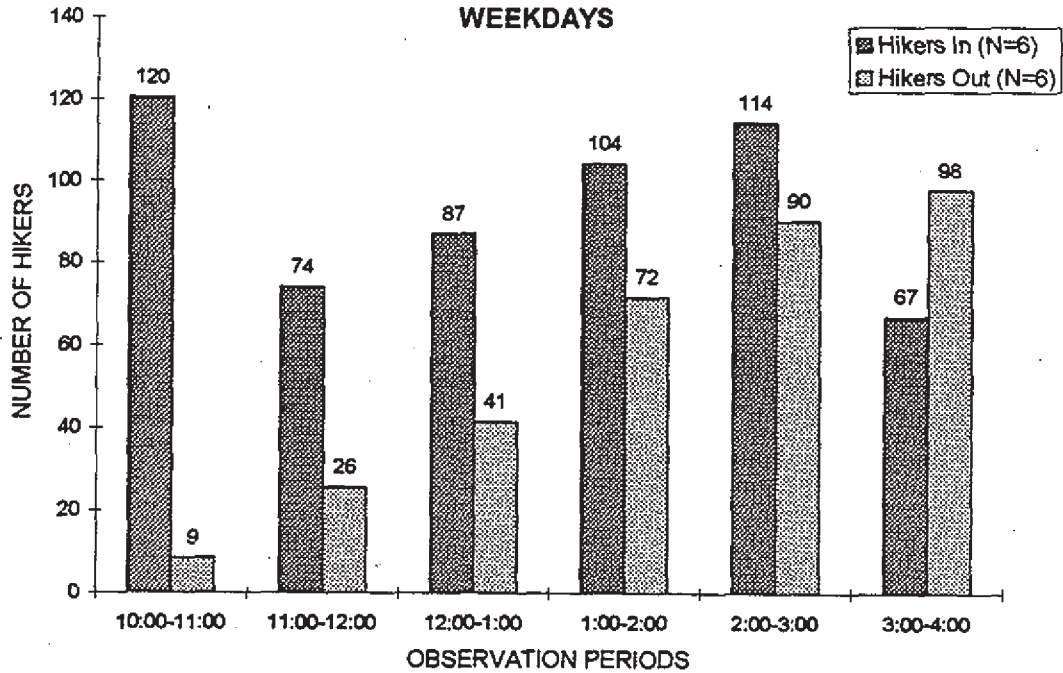
**HIKERS ENTERING AND LEAVING JUNCTION OF TRAIL TO ALTA
VISTA FROM PARKING LOT AND ROAD (SITE 111)
ON OBSERVED WEEKDAYS**



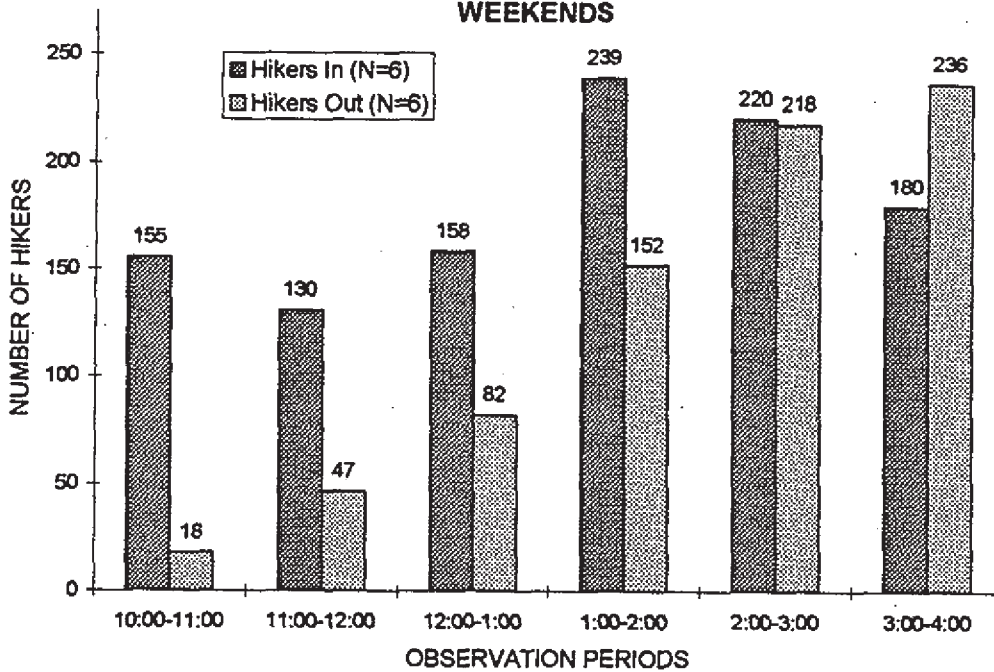
**HIKERS ENTERING AND LEAVING JUNCTION OF TRAIL TO ALTA
VISTA FROM PARKING LOT AND ROAD (SITE 111)
ON OBSERVED WEEKENDS**



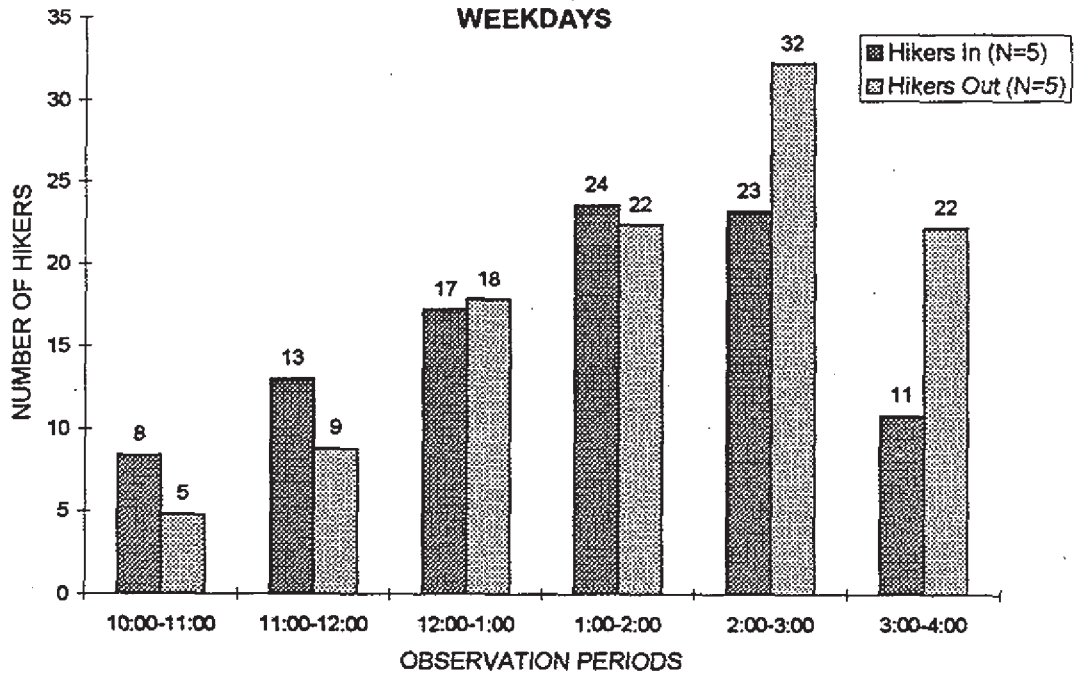
HIKERS ENTERING AND LEAVING SKYLINE TRAIL AT JNCT. TO TRAIL TO DEAD HORSE TRAIL (SITE 112) ON OBSERVED WEEKDAYS



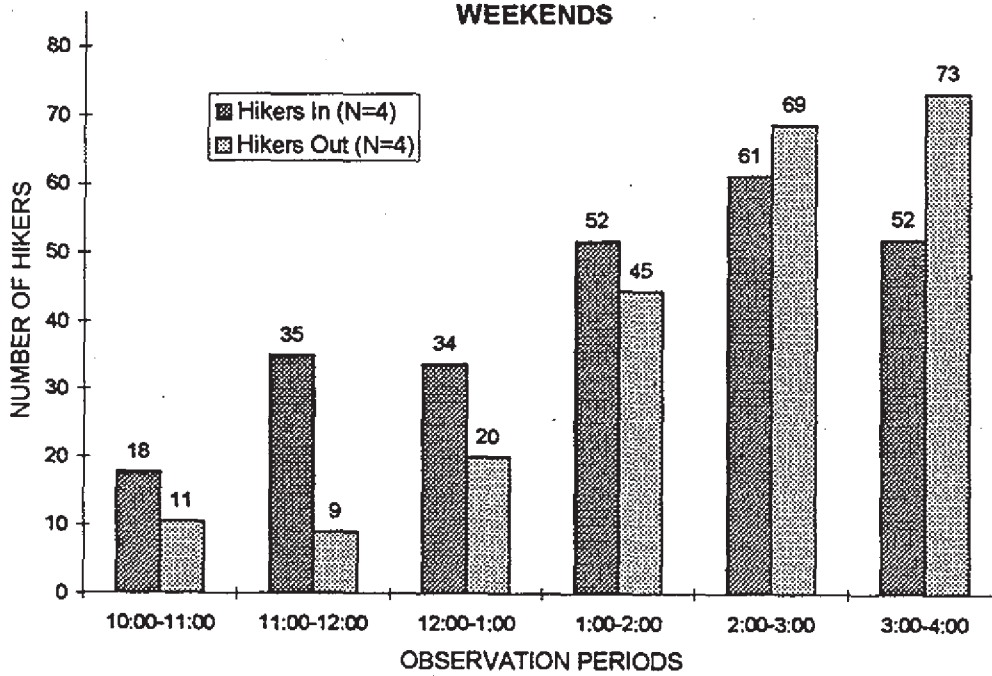
HIKERS ENTERING AND LEAVING SKYLINE TRAIL AT JNCT. TO TRAIL TO DEAD HORSE TRAIL (SITE 112) ON OBSERVED WEEKENDS



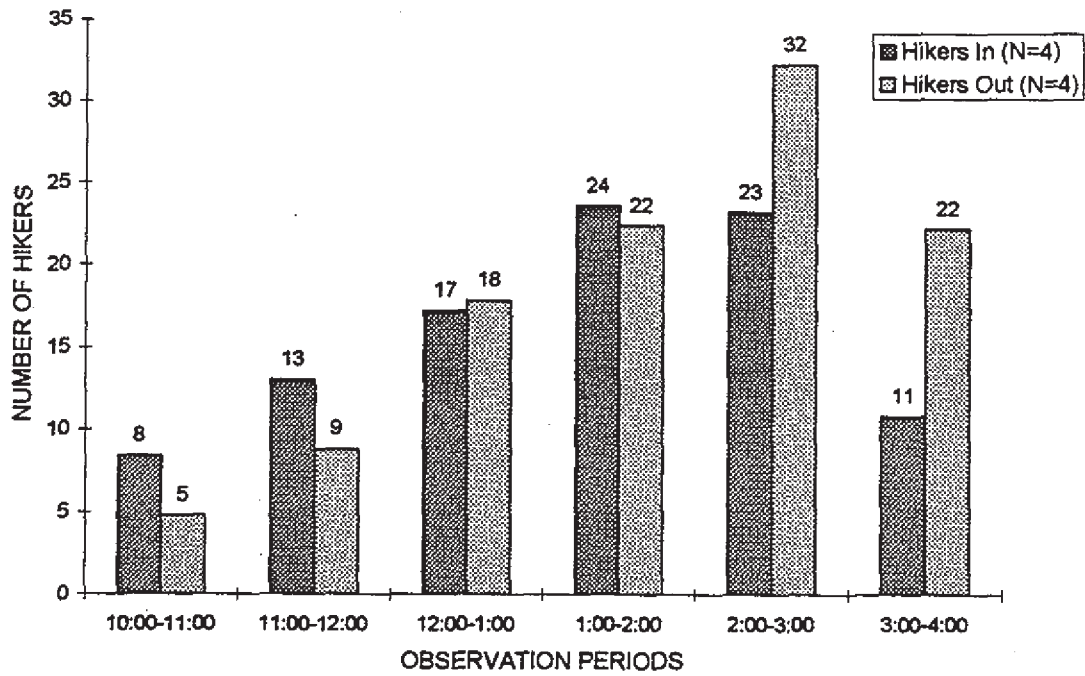
**HIKERS ENTERING AND LEAVING TRAIL TO DEAD HORSE TRAIL AT
JUNCTION TO SKYLINE TRAIL (SITE 113) ON OBSERVED
WEEKDAYS**



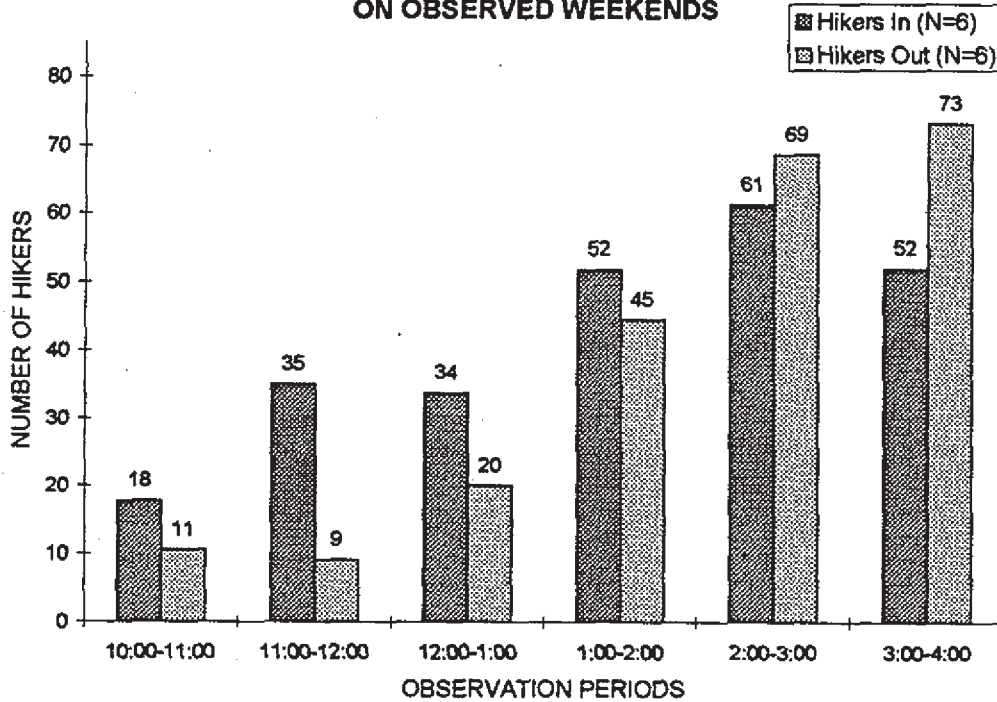
**HIKERS ENTERING AND LEAVING TRAIL TO DEAD HORSE TRAIL AT
JUNCTION TO SKYLINE TRAIL (SITE 113) ON OBSERVED
WEEKENDS**



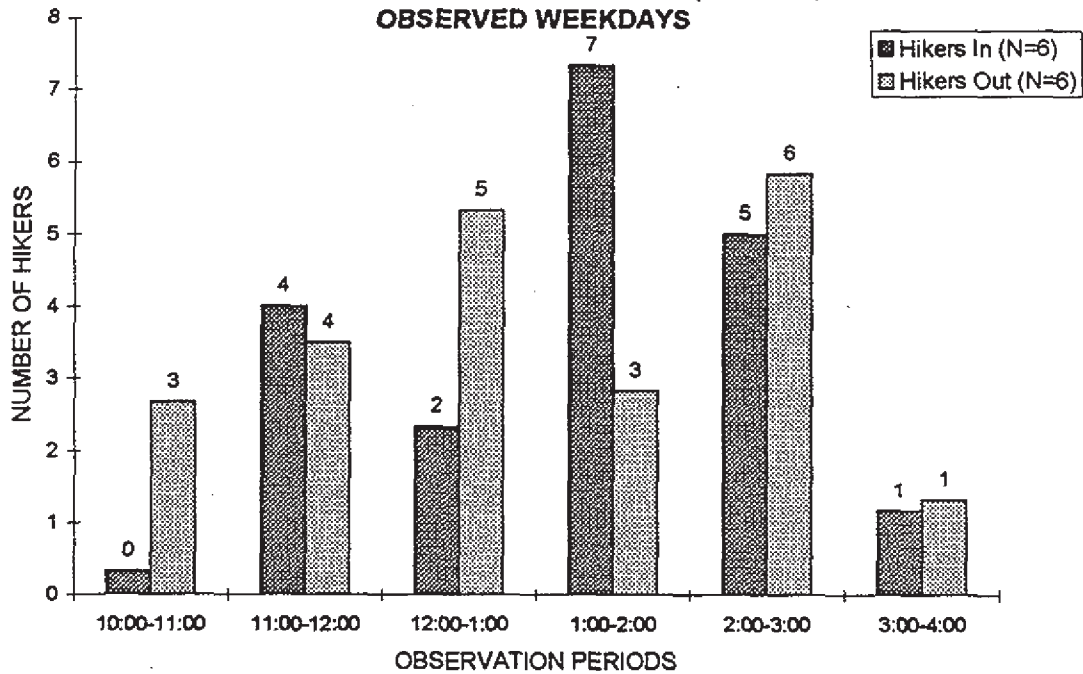
**HIKERS ENTERING AND LEAVING LAKES TRAIL (SITE 114)
ON OBSERVED WEEKDAYS**



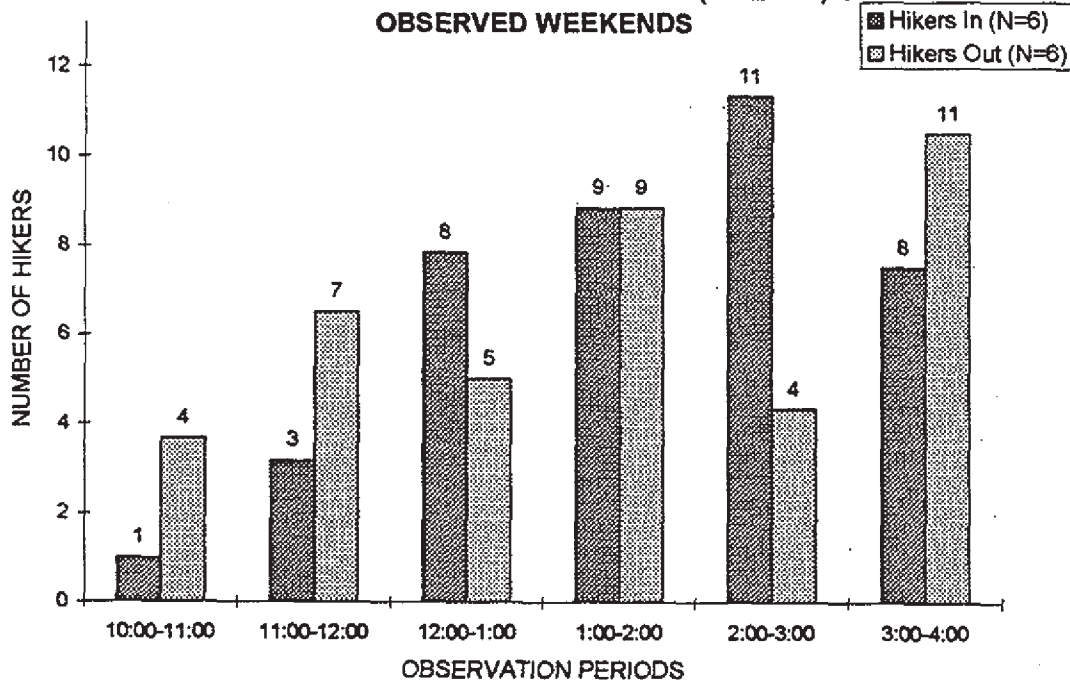
**HIKERS ENTERING AND LEAVING LAKES TRAIL (SITE 114)
ON OBSERVED WEEKENDS**



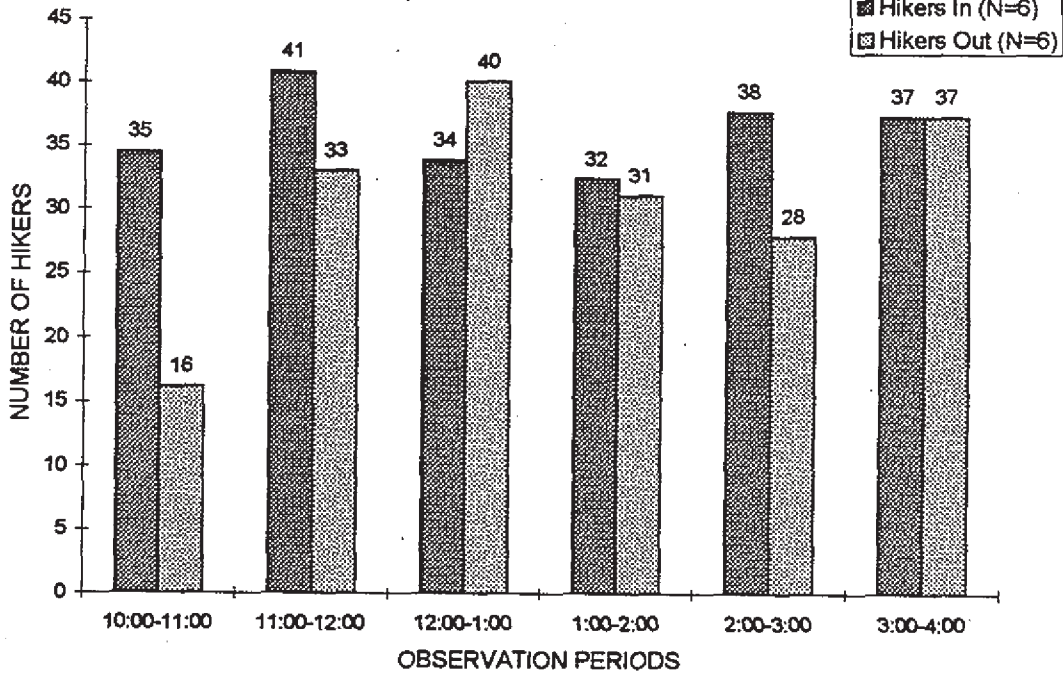
HIKERS ENTERING AND LEAVING TRAIL ACROSS FROM PARKING LOT AT GROVE OF THE PATRIARCHS (SITE 115) ON OBSERVED WEEKDAYS



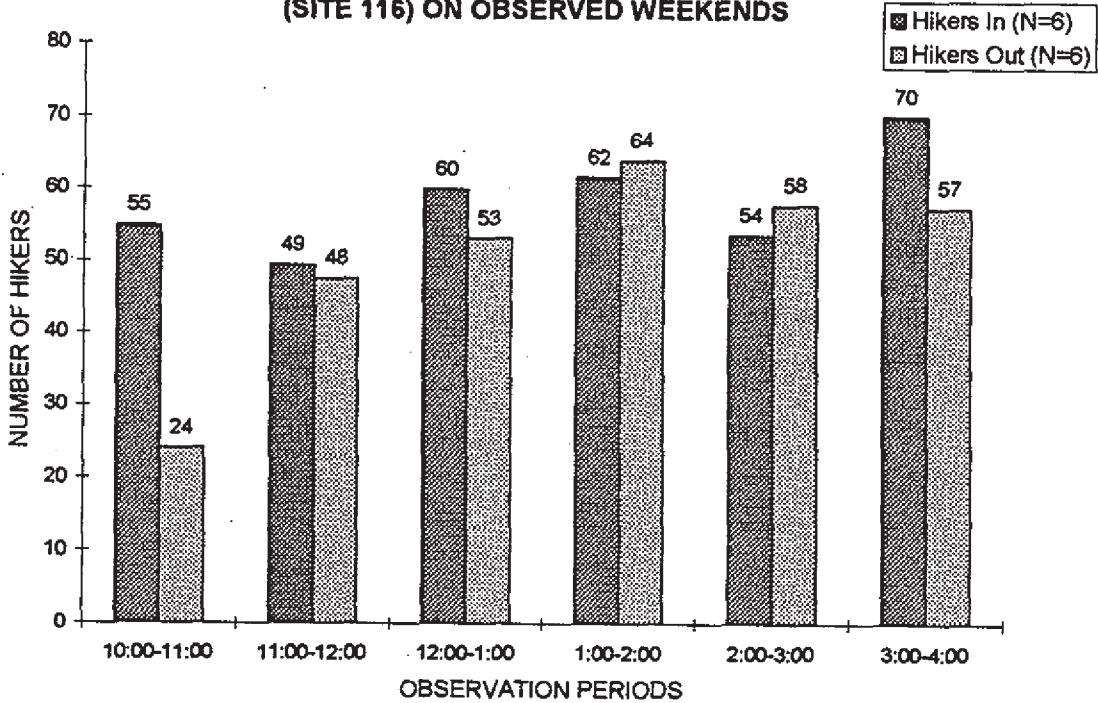
HIKERS ENTERING AND LEAVING TRAIL ACROSS FROM PARKING LOT AT GROVE OF THE PATRIARCHS (SITE 115) ON OBSERVED WEEKENDS



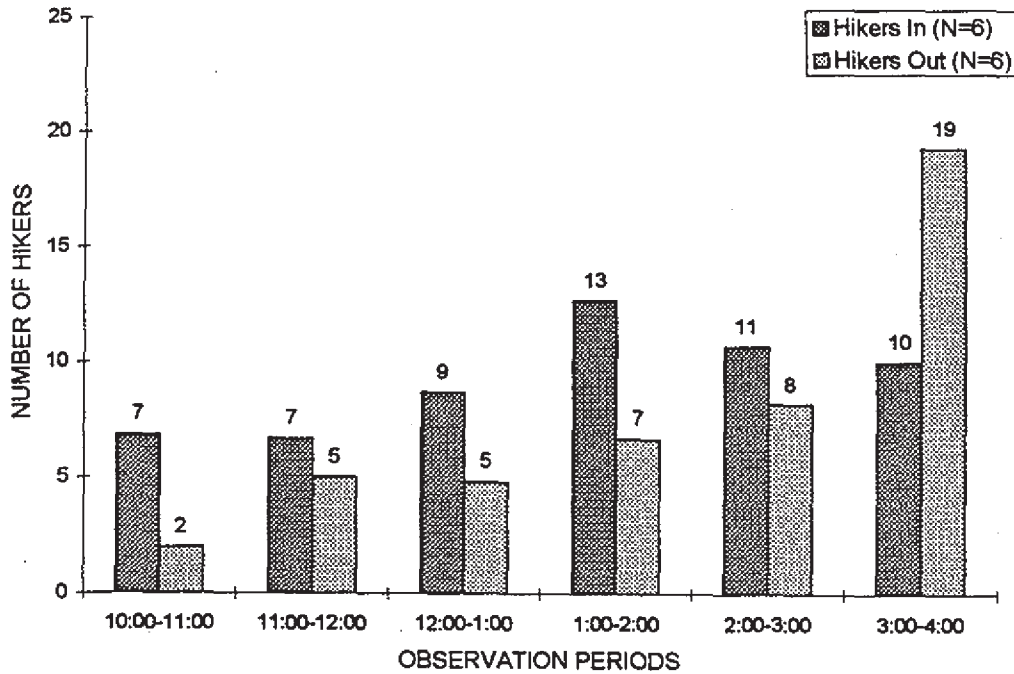
**HIKERS ENTERING AND LEAVING GROVE OF THE PATRIARCHS
(SITE 116) ON OBSERVED WEEKDAYS**



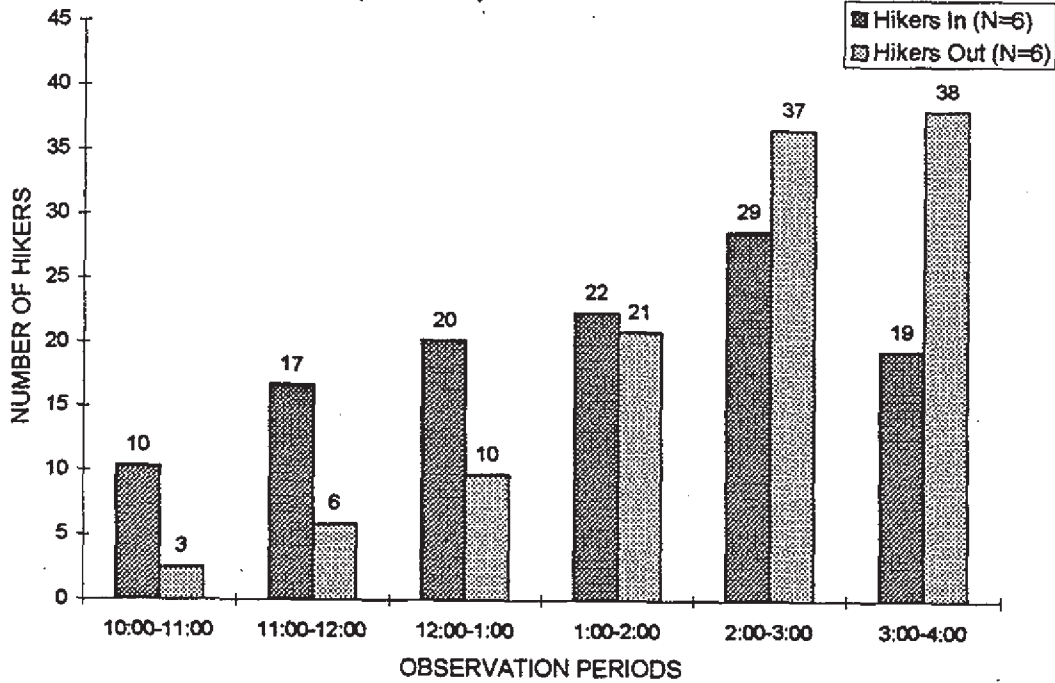
**HIKERS ENTERING AND LEAVING GROVE OF THE PATRIARCHS
(SITE 116) ON OBSERVED WEEKENDS**



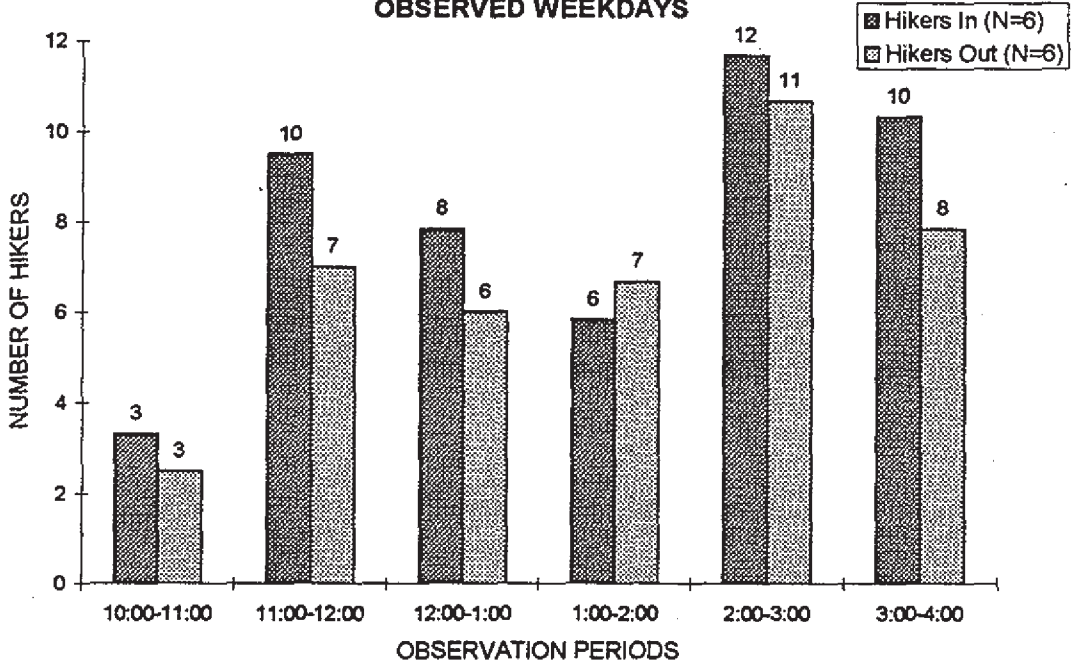
HIKERS ENTERING AND LEAVING RIM TRAIL AT RIM/EMMONS JUNCTION (SITE 117) ON OBSERVED WEEKDAYS



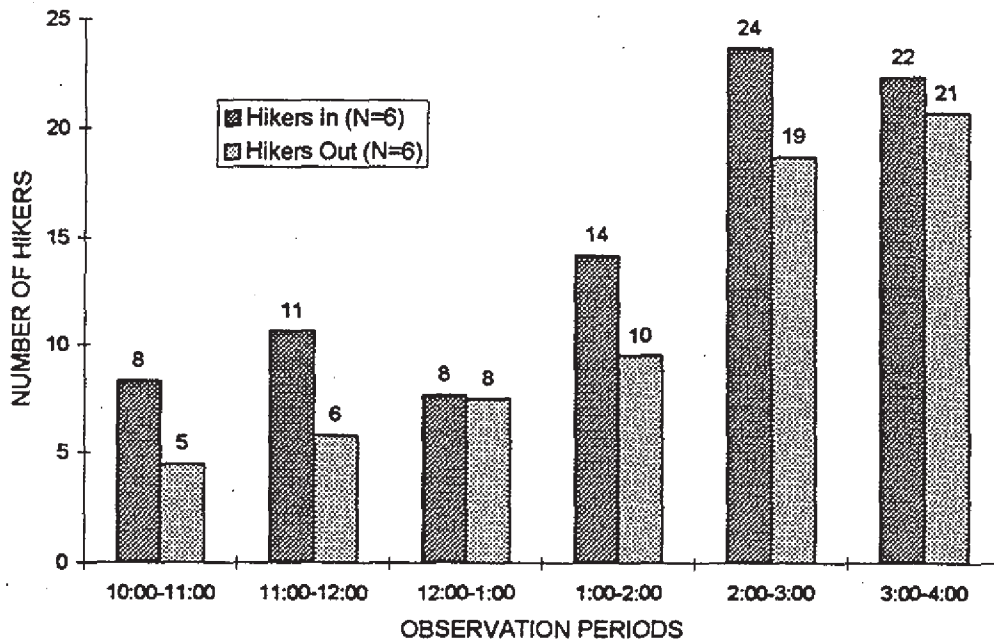
HIKERS ENTERING AND LEAVING RIM TRAIL AT RIM/EMMONS JUNCTION (SITE 117) ON OBSERVED WEEKENDS



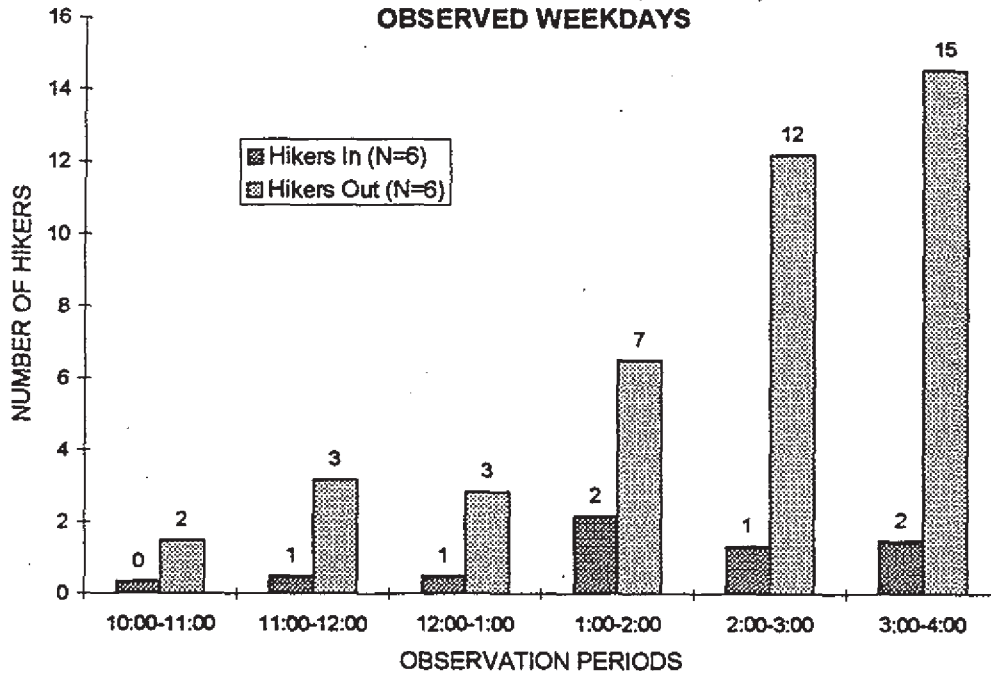
**HIKERS ENTERING AND LEAVING EMMONS VISTA TRAIL AT
RIM/EMMONS JUNCTION (SITE 118) ON
OBSERVED WEEKDAYS**



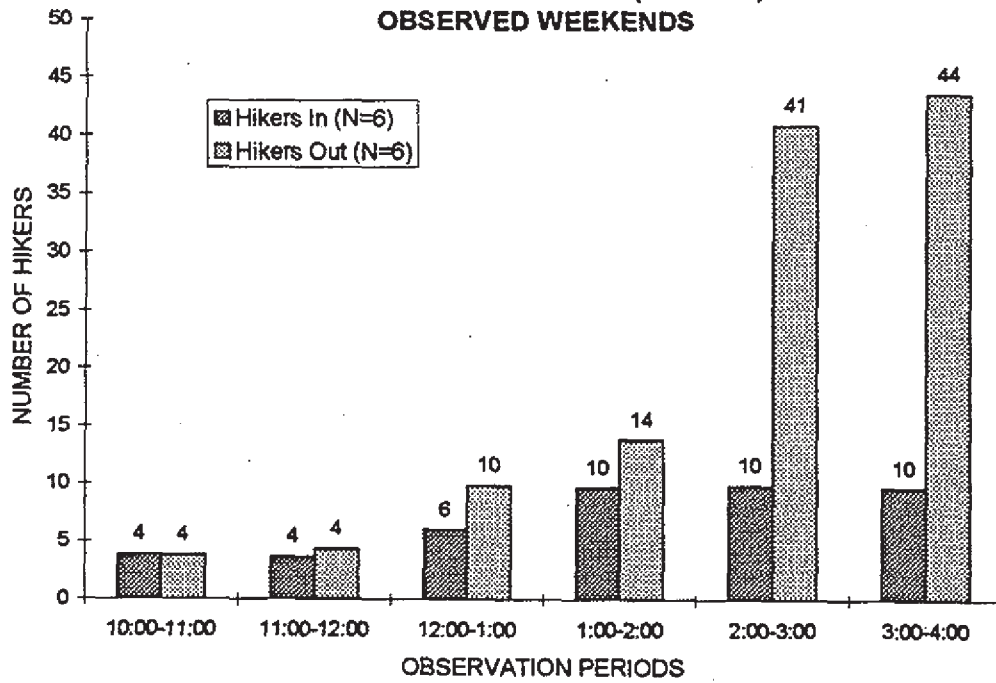
**HIKERS ENTERING AND LEAVING EMMONS VISTA TRAIL AT
RIM/EMMONS JUNCTION (SITE 118) ON
OBSERVED WEEKENDS**



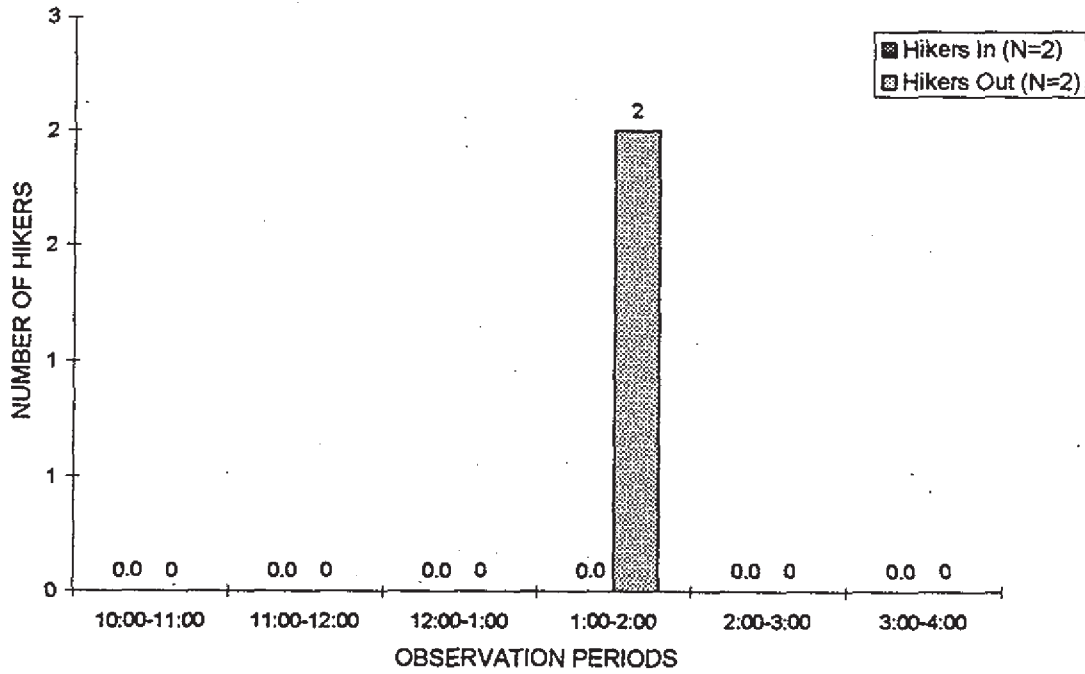
**HIKERS ENTERING AND LEAVING OTHER END OF RIM TRAIL AT PET
LOOP/RIM TRAIL JUNCTION (SITE 119) ON
OBSERVED WEEKDAYS**



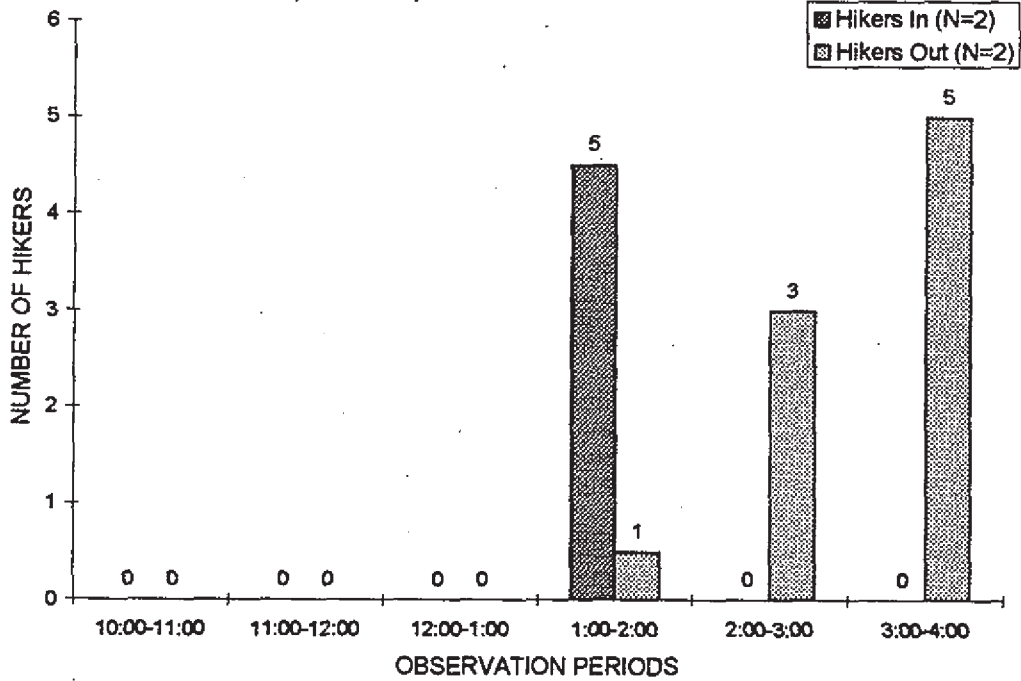
**HIKERS ENTERING AND LEAVING OTHER END OF RIM TRAIL AT PET
LOOP/RIM TRAIL JUNCTION (SITE 119) ON
OBSERVED WEEKENDS**



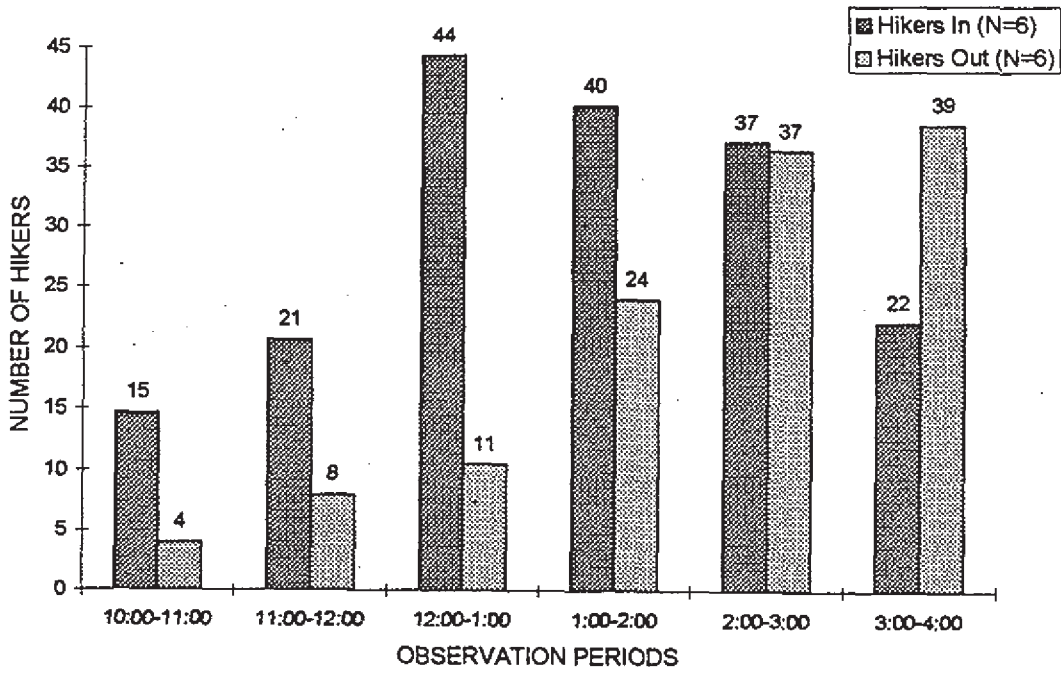
**HIKERS ENTERING AND LEAVING PET LOOP TRAIL
(SITE 120) ON OBSERVED WEEKDAYS**



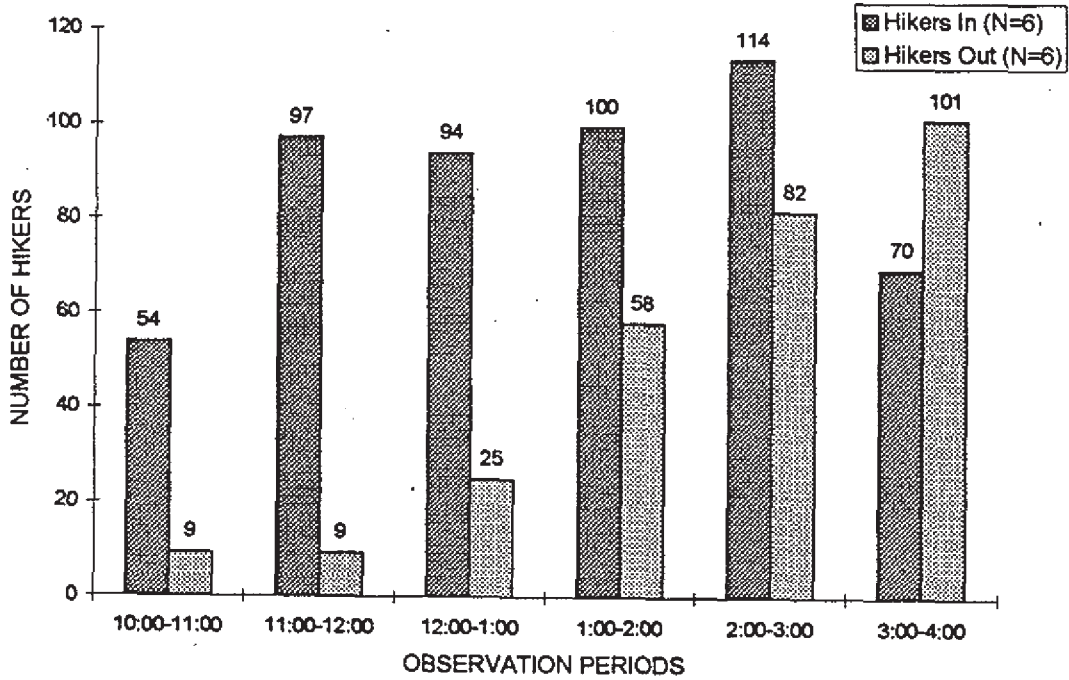
**HIKERS ENTERING AND LEAVING PET LOOP TRAIL
(SITE 120) ON OBSERVED WEEKENDS**



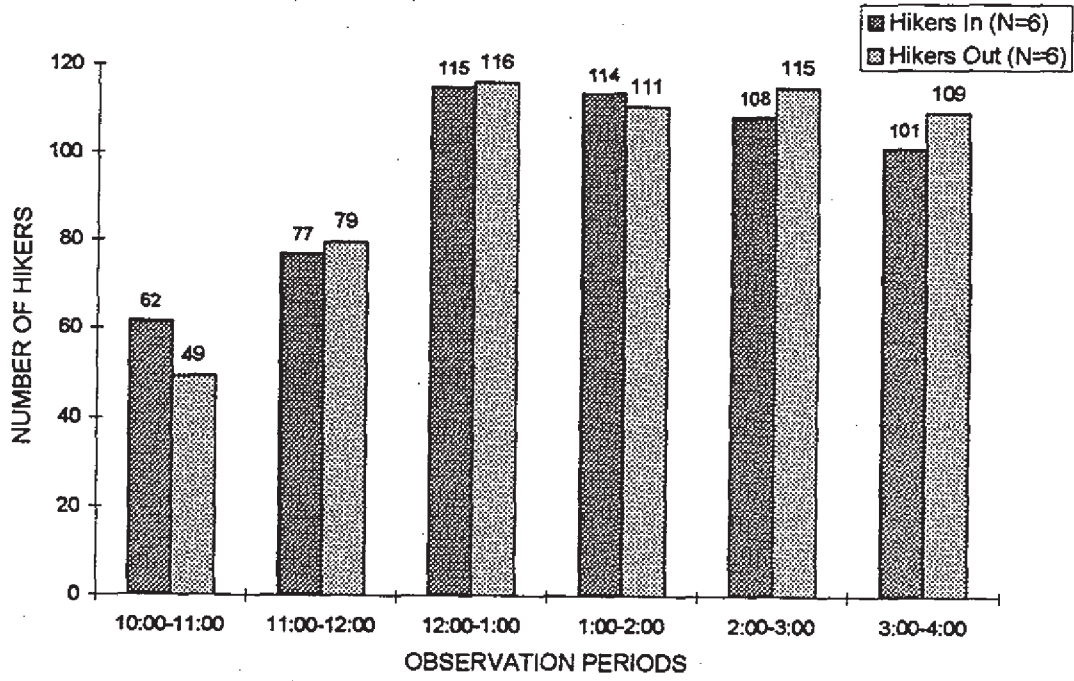
**HIKERS ENTERING AND LEAVING NATURE TRAIL
(SITE 121) ON OBSERVED WEEKDAYS**



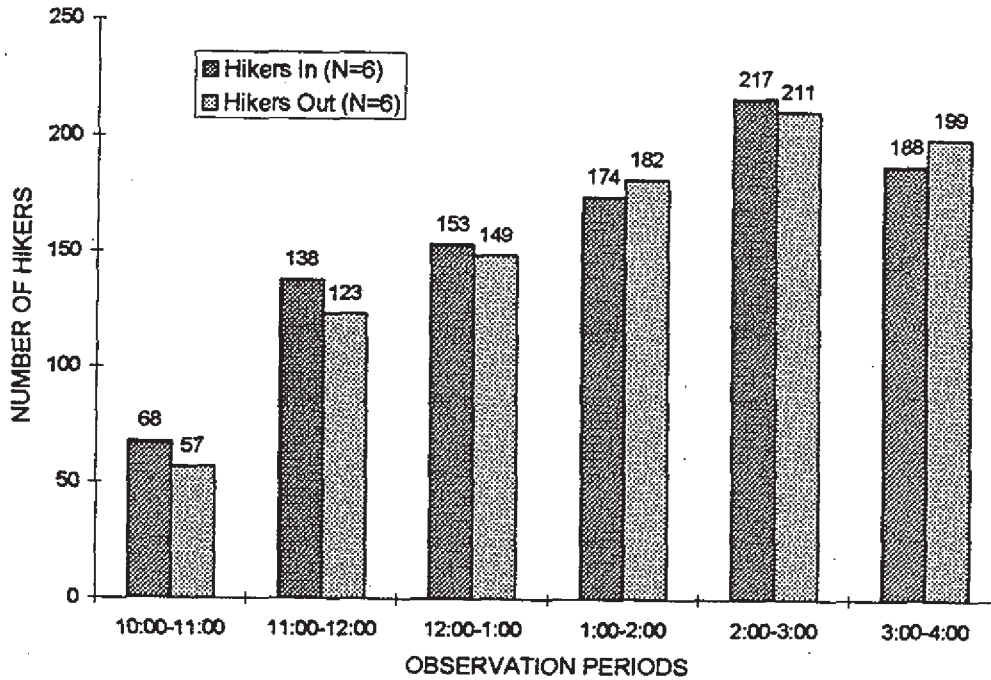
**HIKERS ENTERING AND LEAVING NATURE TRAIL
(SITE 121) ON OBSERVED WEEKENDS**



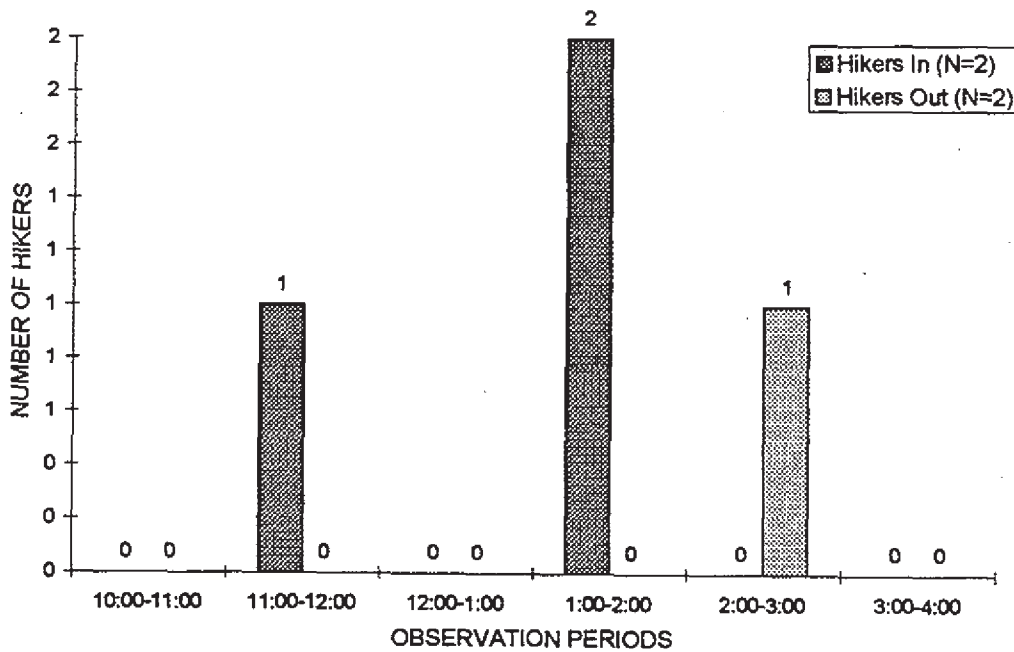
**HIKERS ENTERING AND LEAVING NARADA FALLS TRAIL
(SITE 123) ON OBSERVED WEEKDAYS**



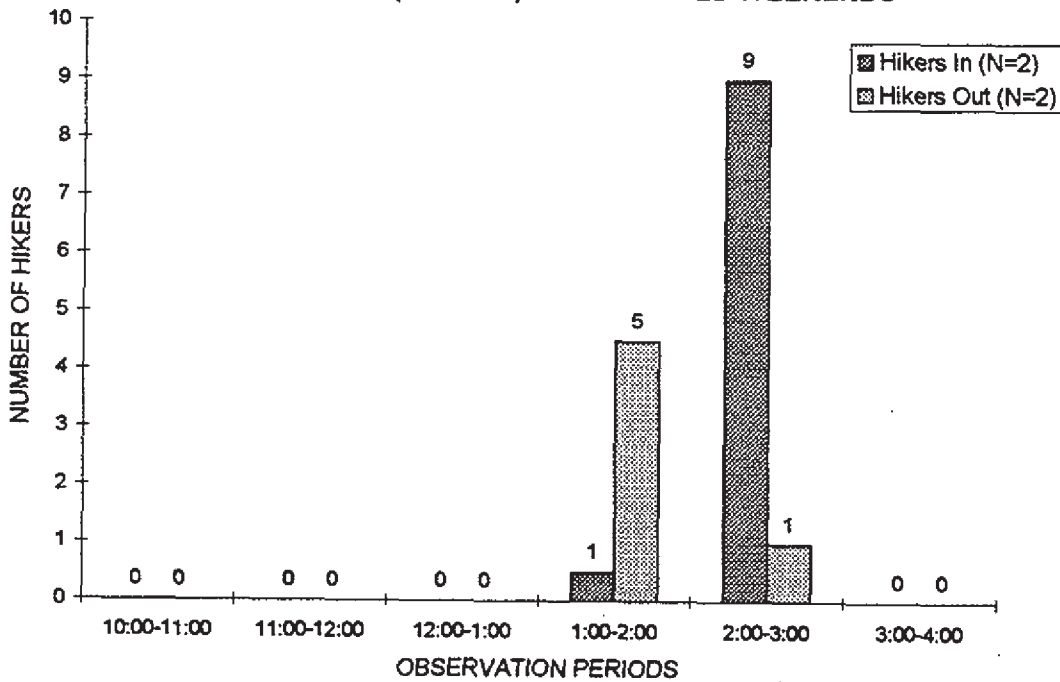
**HIKERS ENTERING AND LEAVING NARADA FALLS TRAIL
(SITE 123) ON OBSERVED WEEKENDS**



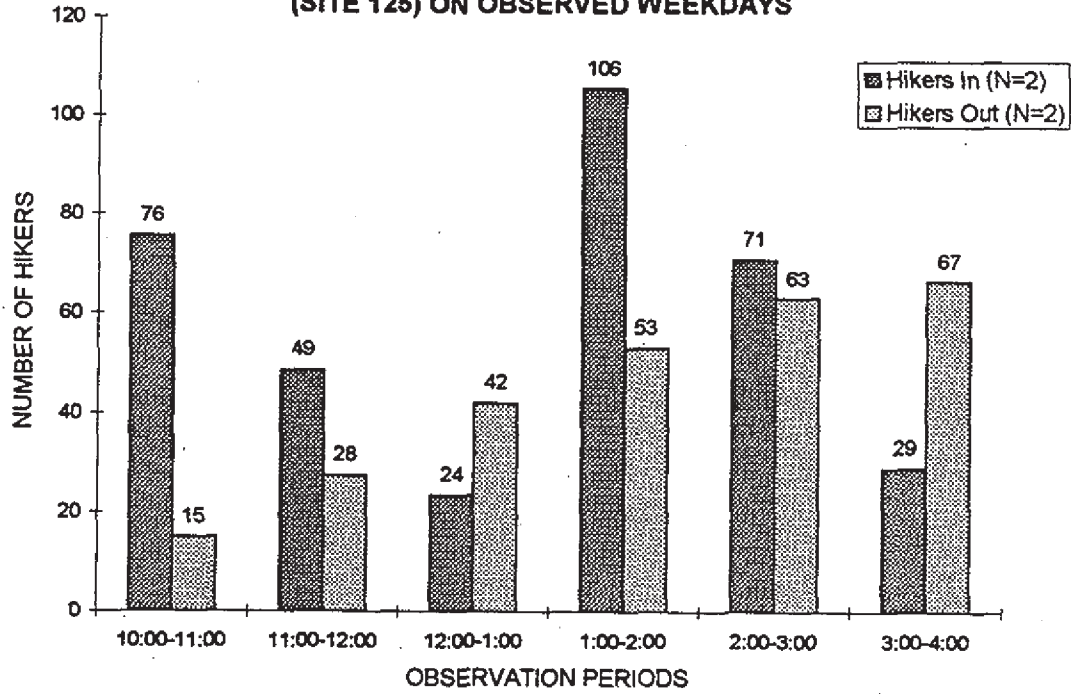
**HIKERS ENTERING AND LEAVING PET LOOP TRAIL AT JUNCTION
WITH RIM TRAIL (SITE 124) ON OBSERVED WEEKDAYS**



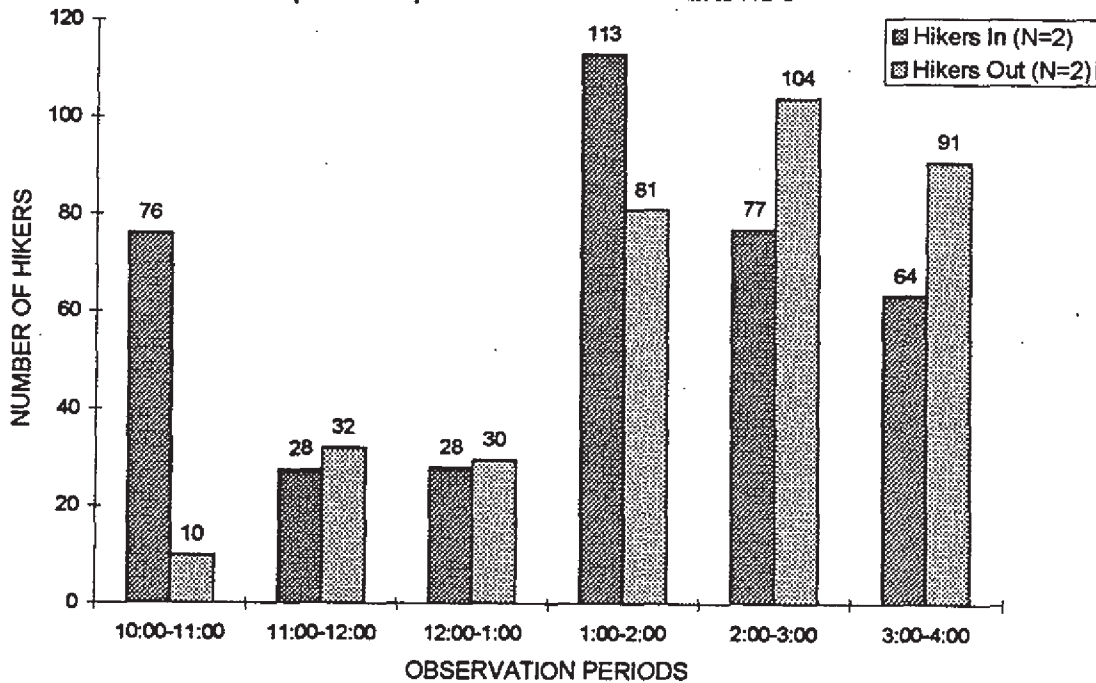
**HIKERS ENTERING AND LEAVING PET LOOP TRAIL AT JUNCTION
WITH RIM TRAIL (SITE 124) ON OBSERVED WEEKENDS**



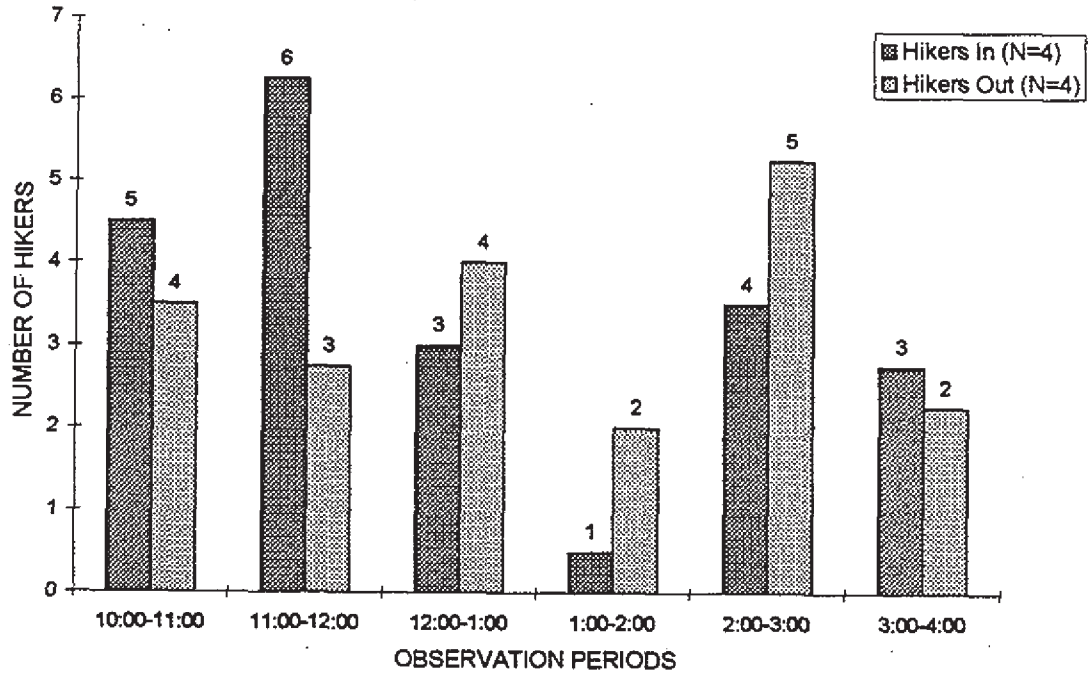
**HIKERS ENTERING AND LEAVING TRAIL CLOSE TO PARADISE INN
(SITE 125) ON OBSERVED WEEKDAYS**



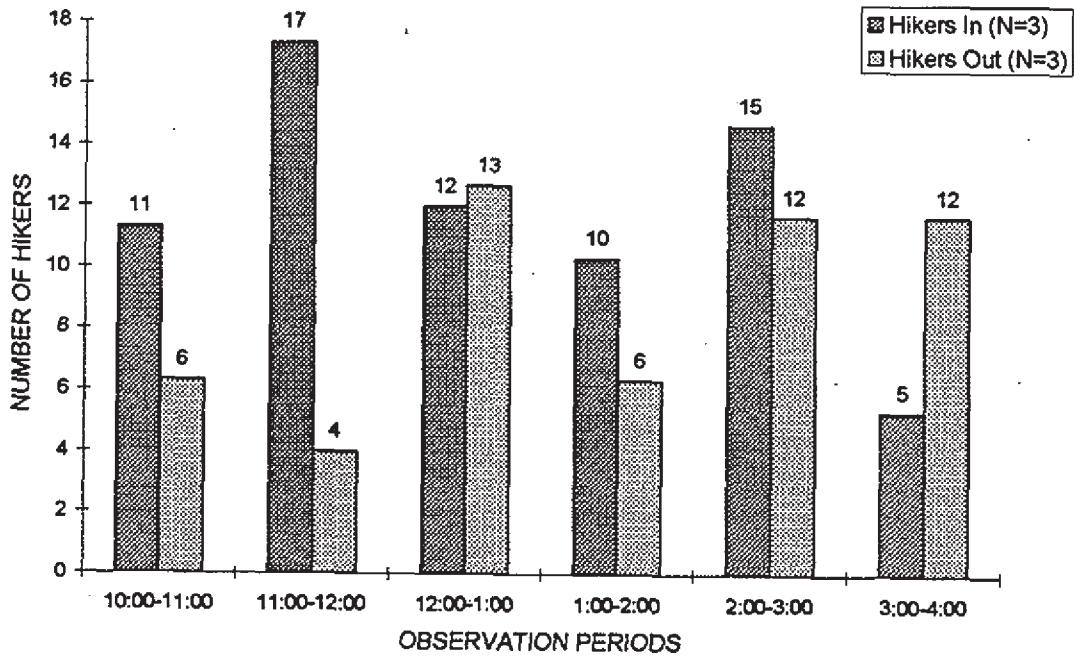
**HIKERS ENTERING AND LEAVING TRAIL CLOSE TO PARADISE INN
(SITE 125) ON OBSERVED WEEKENDS**



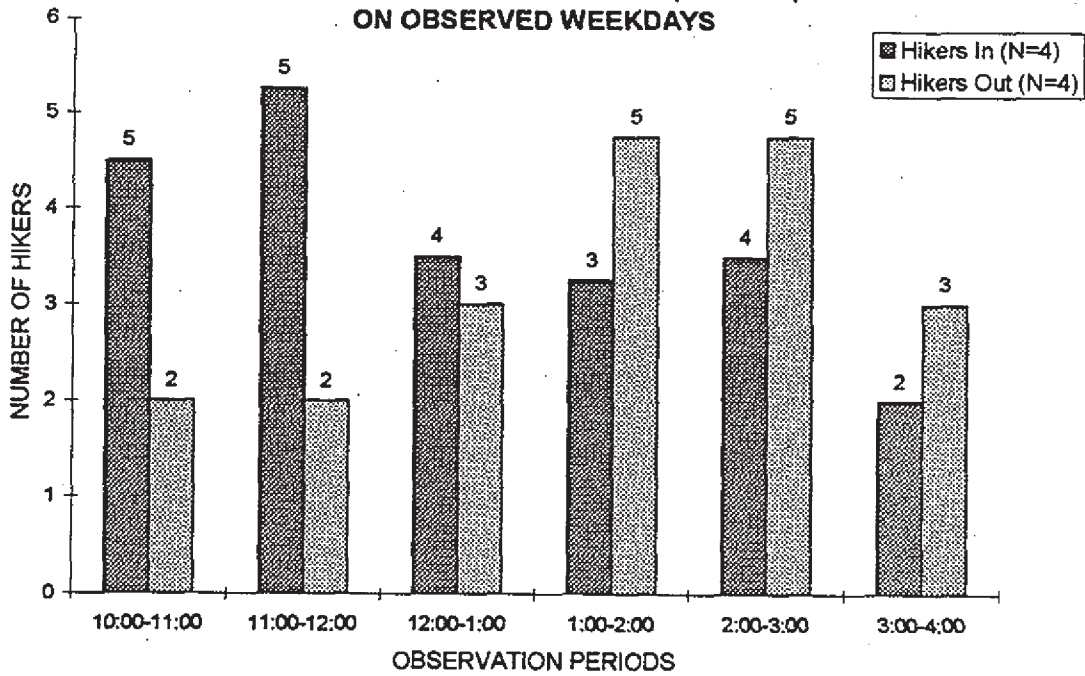
**HIKERS ENTERING AND LEAVING KAUTZ CREEK TRAIL
(SITE 126) ON OBSERVED WEEKDAYS**



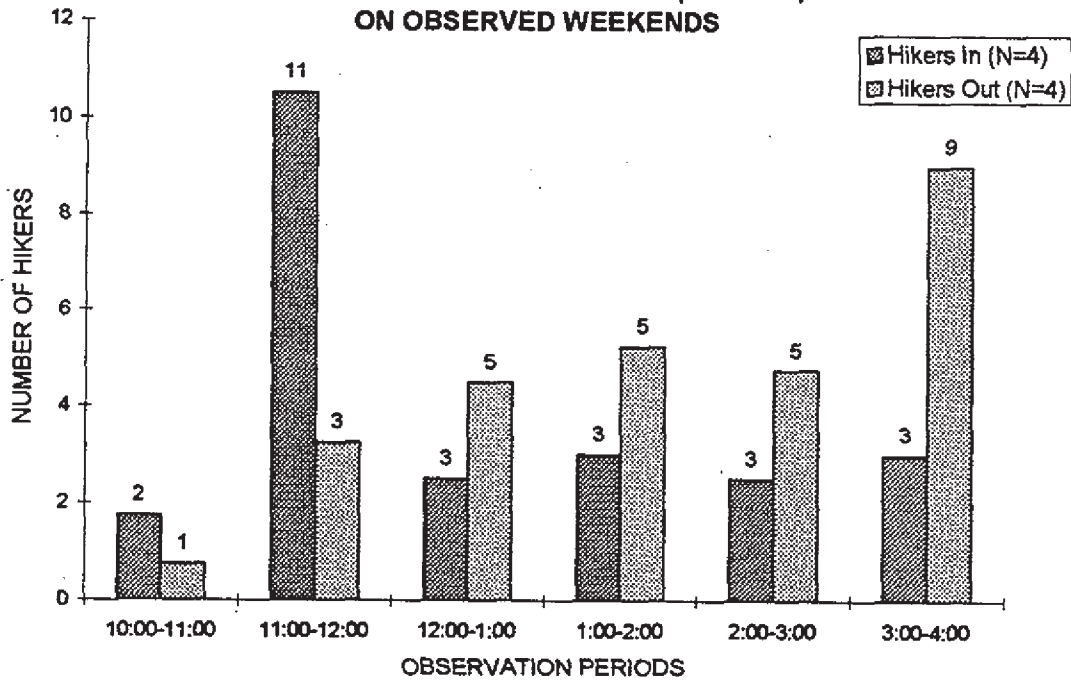
**HIKERS ENTERING AND LEAVING KAUTZ CREEK TRAIL
(SITE 126) ON OBSERVED WEEKENDS**



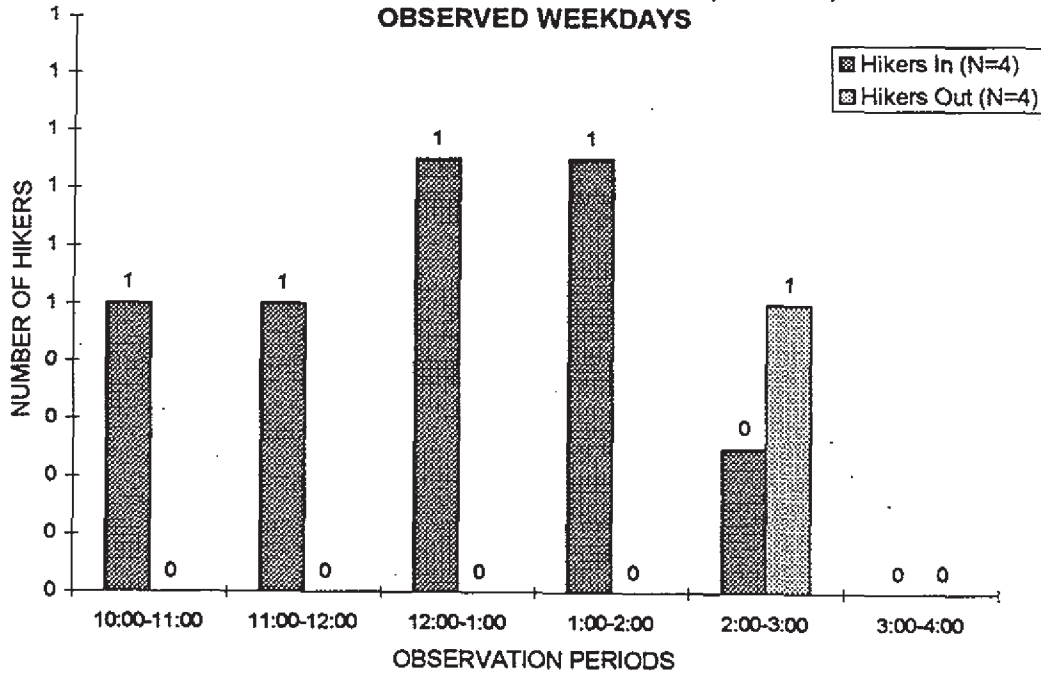
**HIKERS ENTERING AND LEAVING WONDERLAND TRAIL/TRAIL TO
VAN TRUMP PARK JUNCTION (SITE 127)
ON OBSERVED WEEKDAYS**



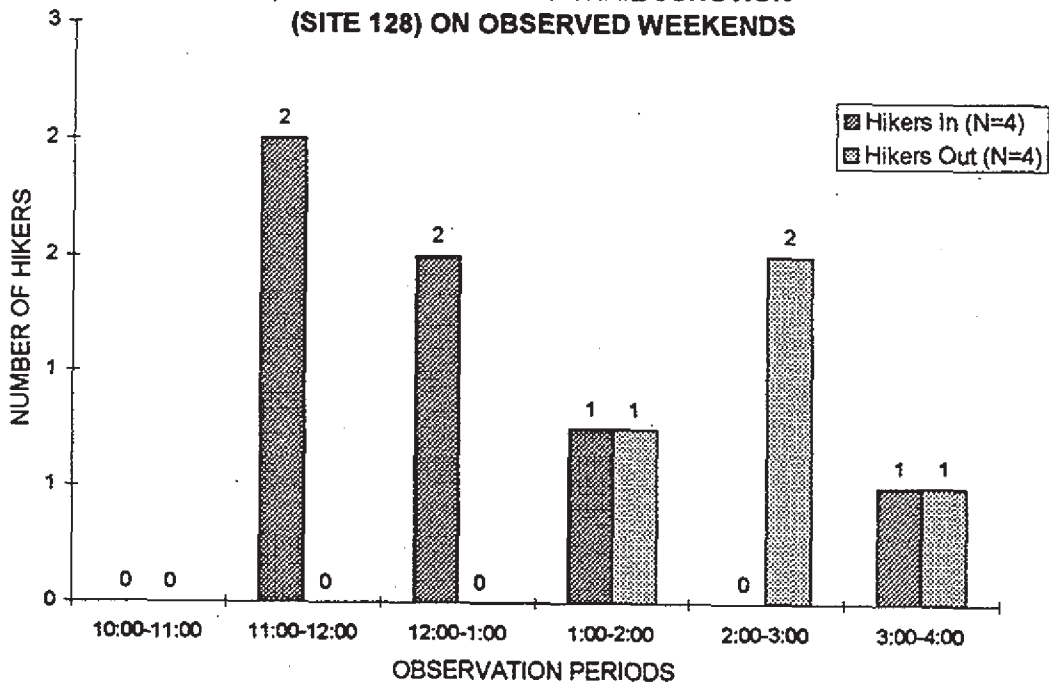
**HIKERS ENTERING AND LEAVING WONDERLAND TRAIL/TRAIL TO
VAN TRUMP PARK JUNCTION (SITE 127)
ON OBSERVED WEEKENDS**



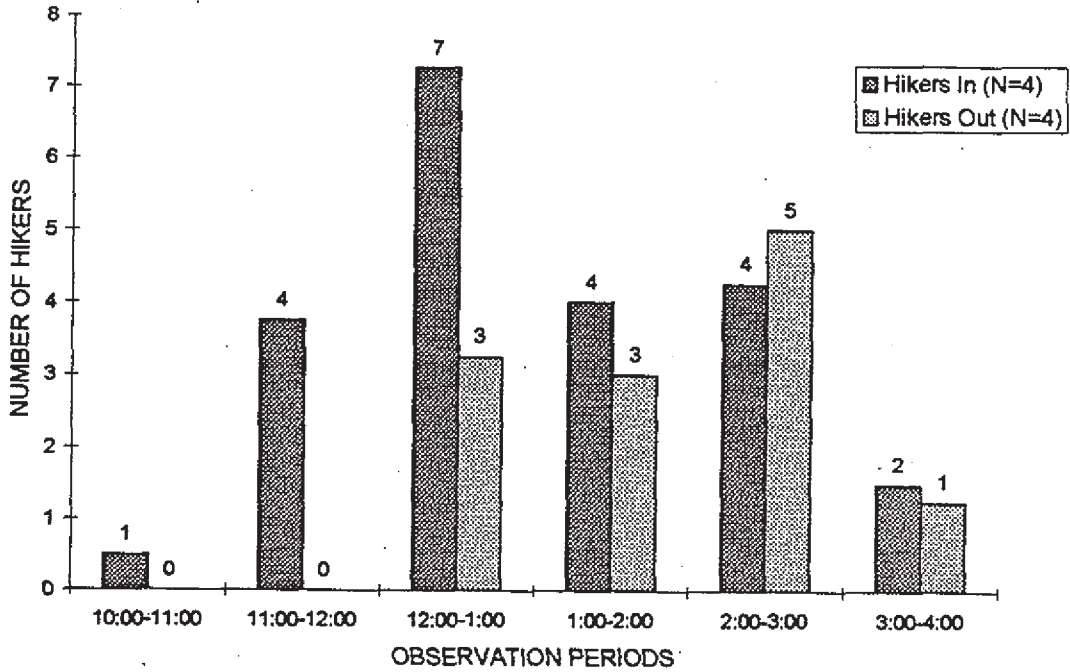
**HIKERS ENTERING AND LEAVING TRAIL TO VAN TRUMP
PARK/WONDERLAND TRAIL JUNCTION (SITE 128) ON
OBSERVED WEEKDAYS**



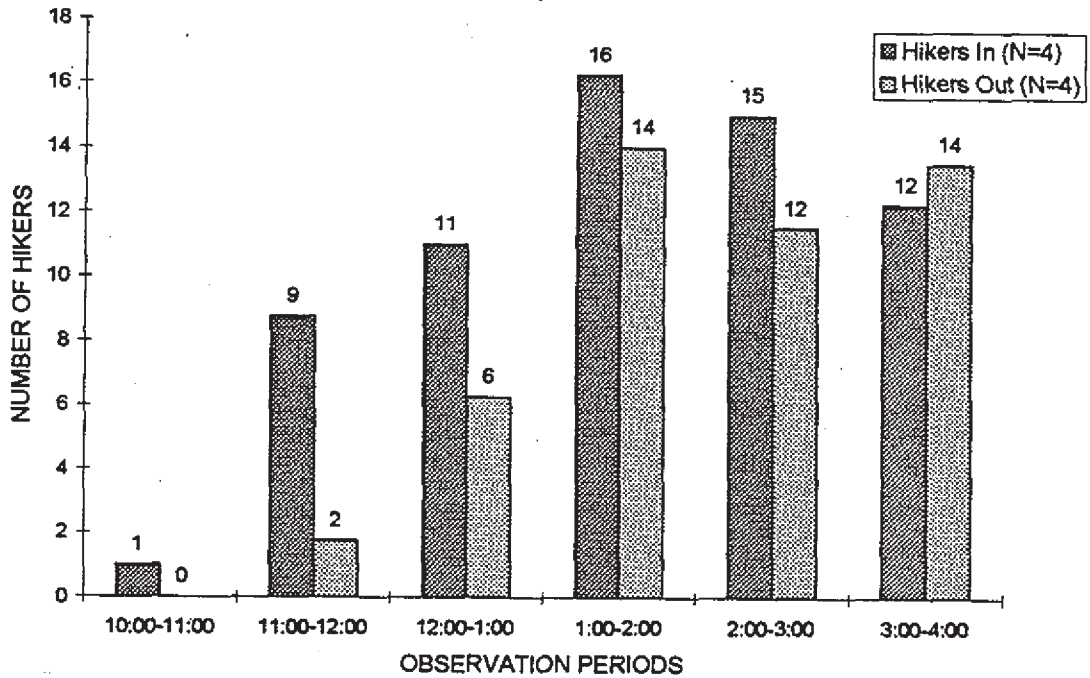
**HIKERS ENTERING AND LEAVING TRAIL TO VAN TRUMP
PARK/WONDERLAND TRAIL JUNCTION
(SITE 128) ON OBSERVED WEEKENDS**



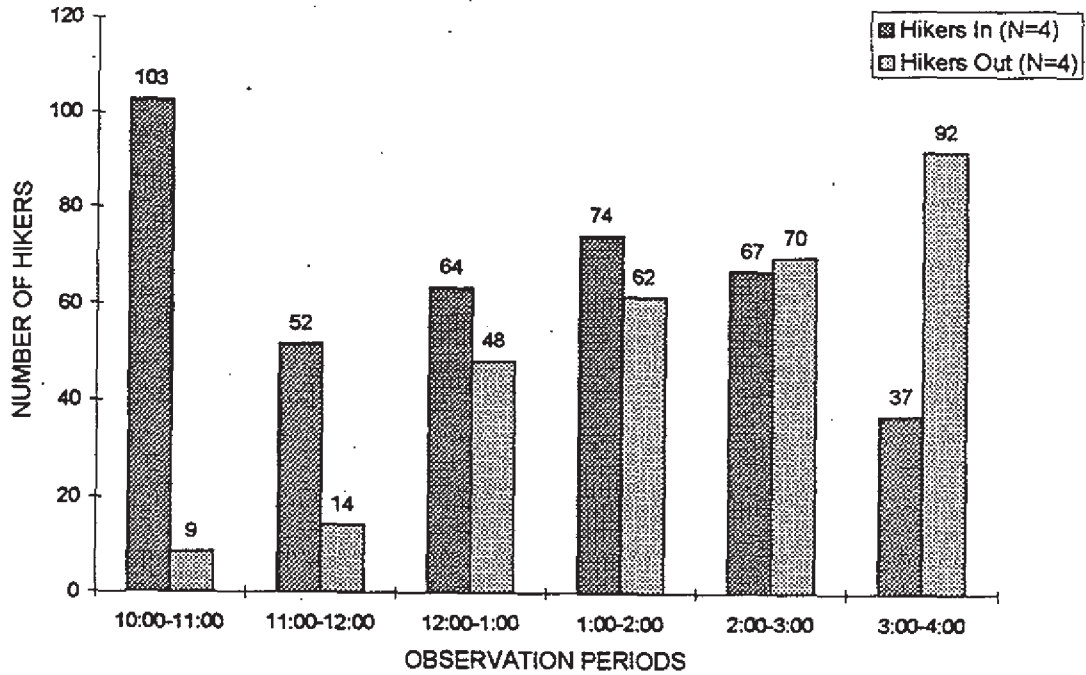
HIKERS ENTERING AND LEAVING VAN TRUMP PARK: TO END OF MAINTAINED TRAIL (SITE 129) ON OBSERVED WEEKDAYS



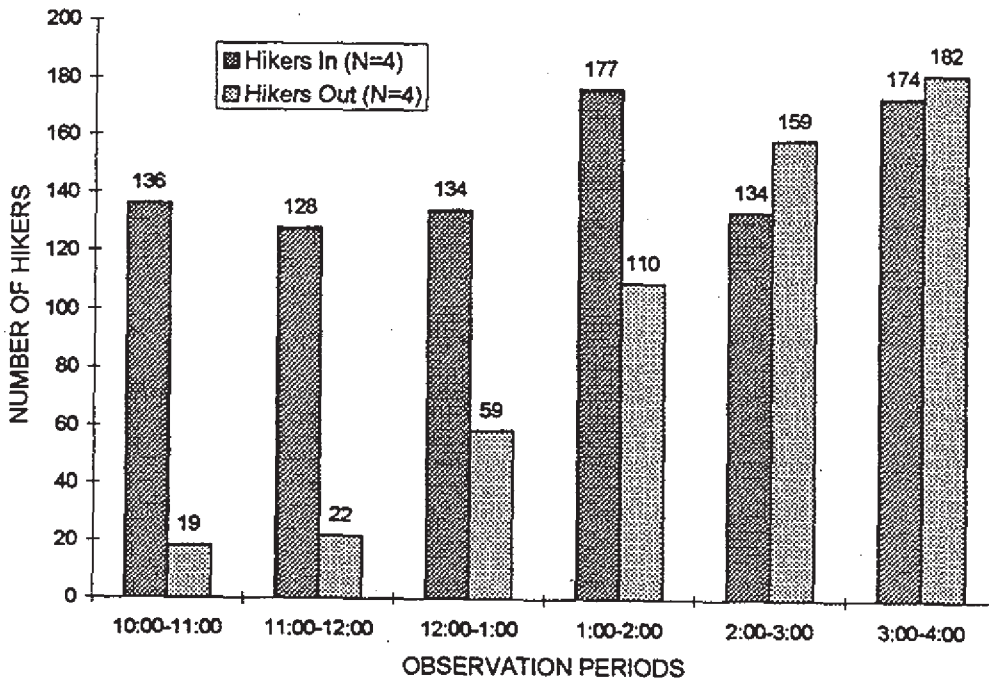
HIKERS ENTERING AND LEAVING VAN TRUMP PARK: TO END OF MAINTAINED TRAIL (SITE 129) ON OBSERVED WEEKENDS



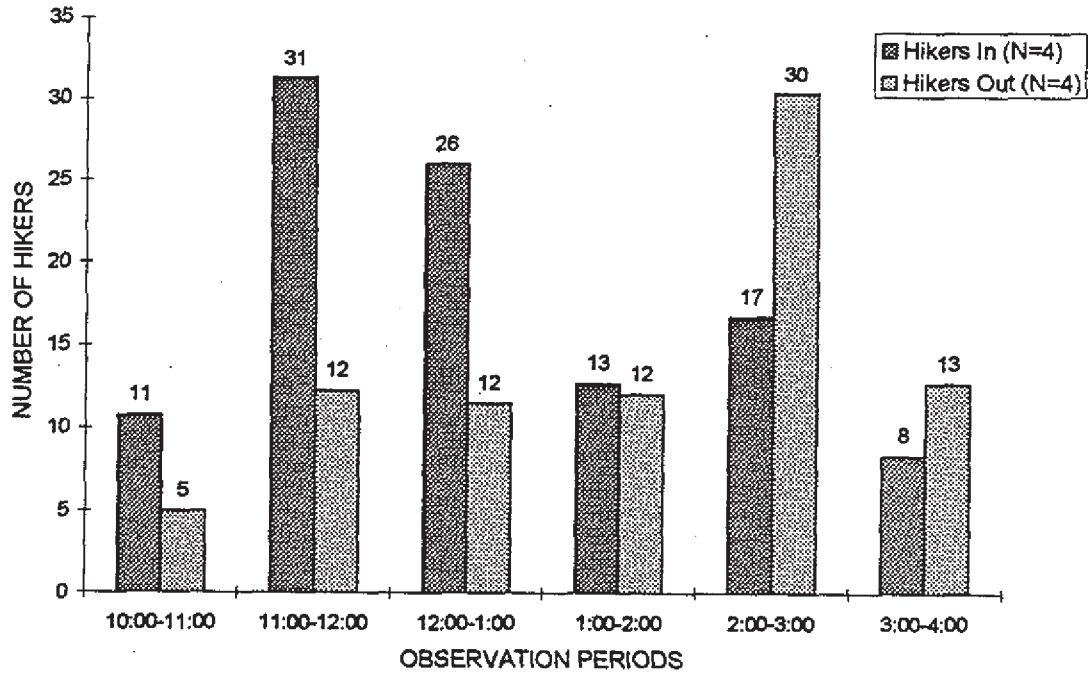
HIKERS ENTERING AND LEAVING SKYLINE TRAIL PAST "DANCE FLOOR" (SITE 130) ON OBSERVED WEEKDAYS



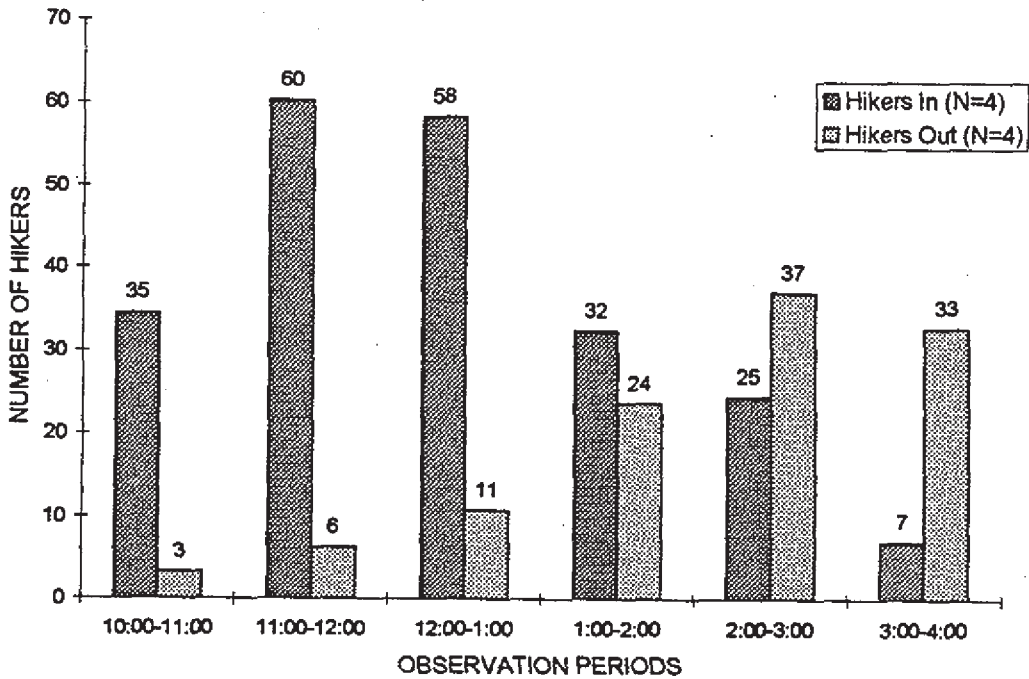
HIKERS ENTERING AND LEAVING SKYLINE TRAIL PAST "DANCE FLOOR" (SITE 130) ON OBSERVED WEEKENDS



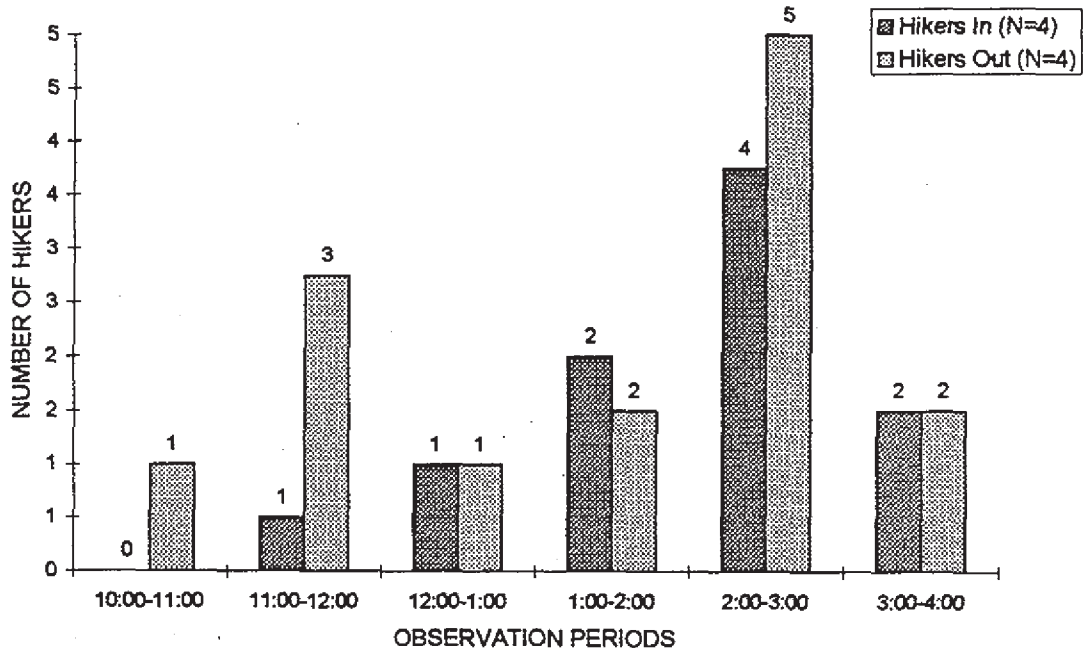
**HIKERS ENTERING AND LEAVING PEBBLE CREEK
(SITE 131) ON OBSERVED WEEKDAYS**



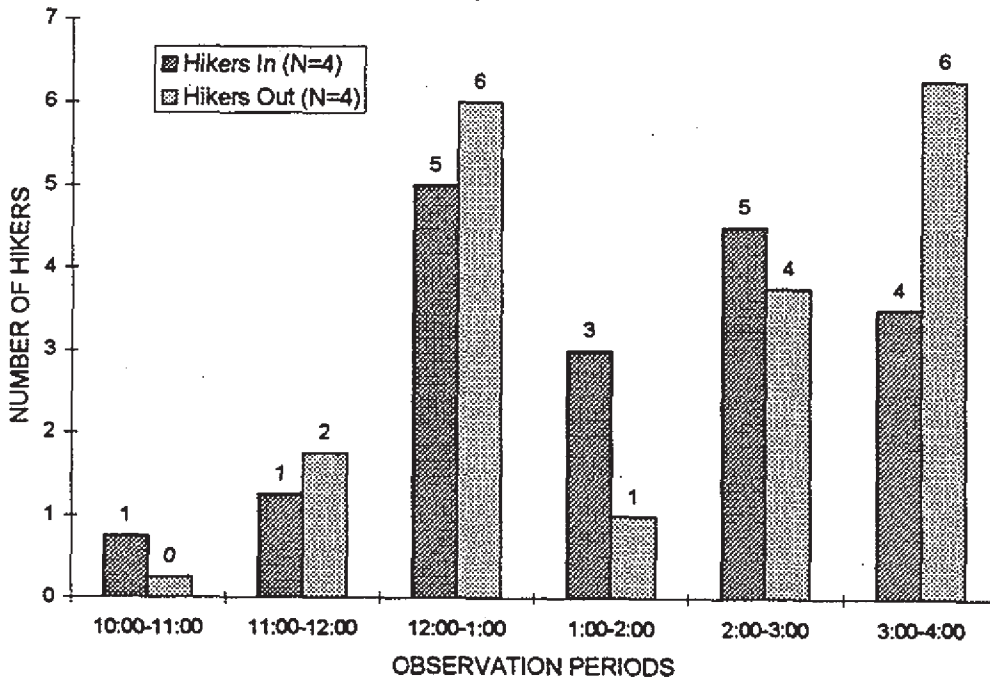
**HIKERS ENTERING AND LEAVING PEBBLE CREEK
(SITE 131) ON OBSERVED WEEKENDS**



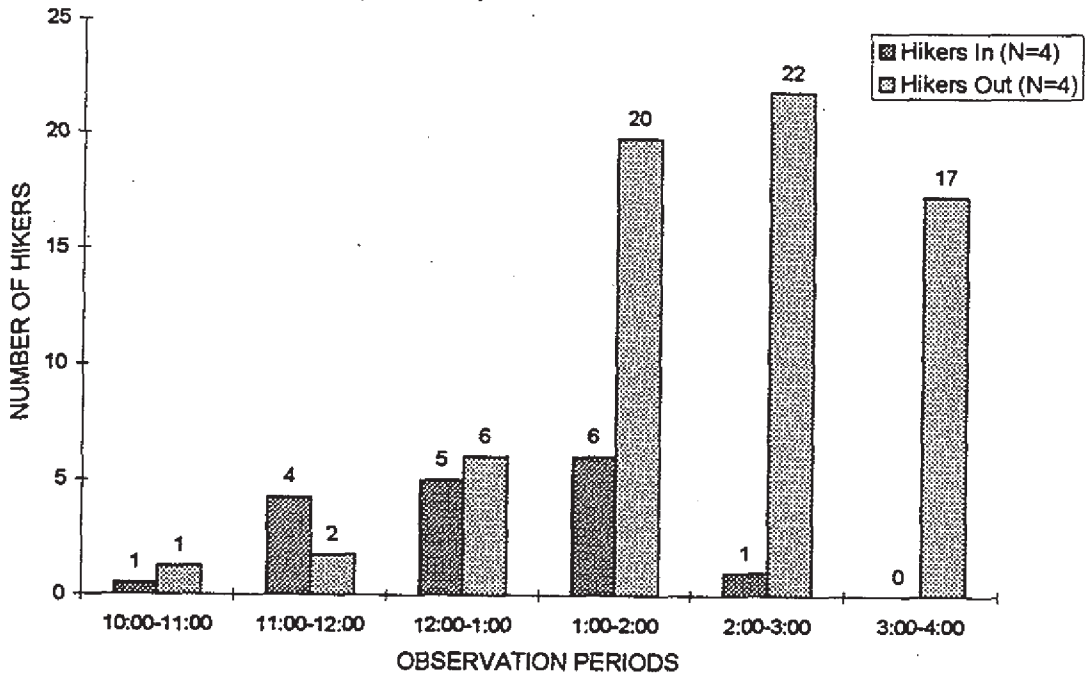
**HIKERS ENTERING AND LEAVING LAKES TRAIL/SKYLINE TRAIL
JUNCTION (SITE 132) ON OBSERVED WEEKDAYS**



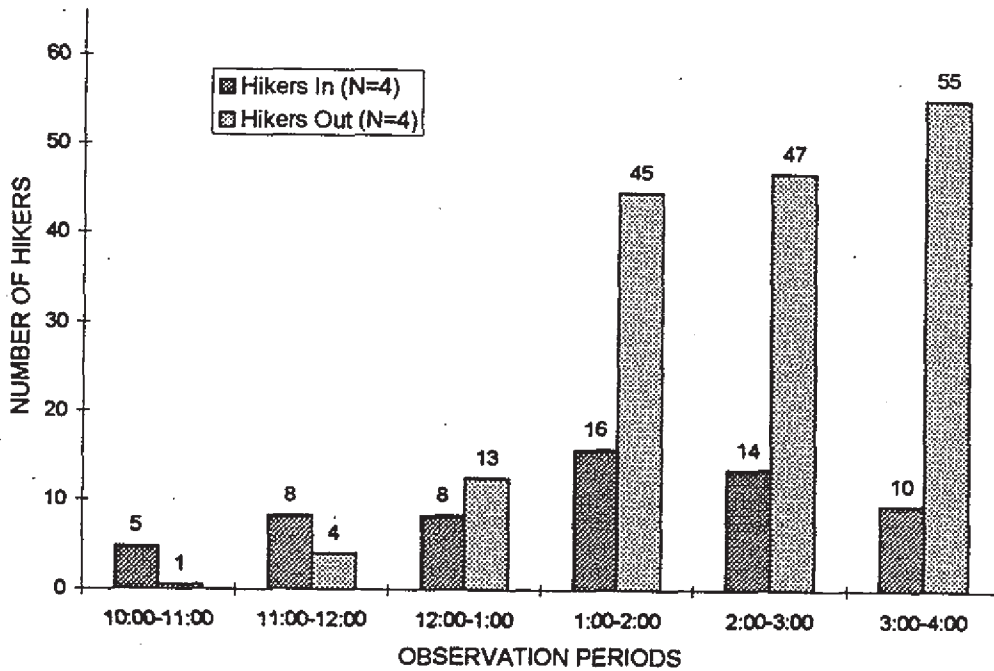
**HIKERS ENTERING AND LEAVING LAKES TRAIL/SKYLINE TRAIL
JUNCTION (SITE 132) ON OBSERVED WEEKENDS**



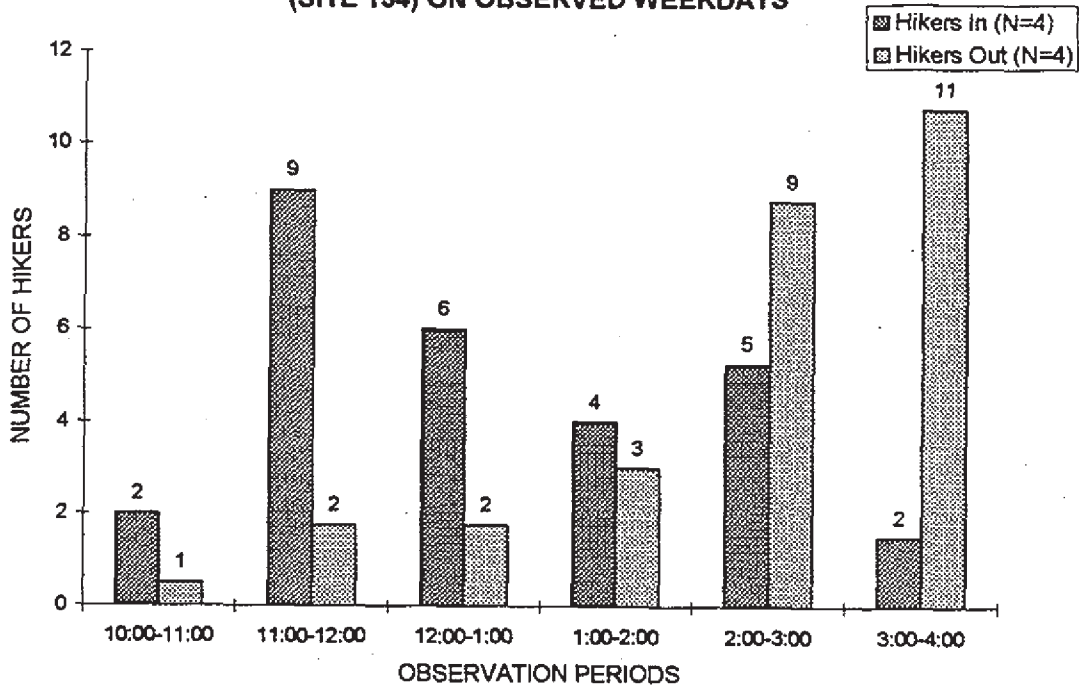
HIKERS ENTERING AND LEAVING SKYLINE TRAIL/LAKES TRAIL JUNCTION (SITE 133) ON OBSERVED WEEKDAYS



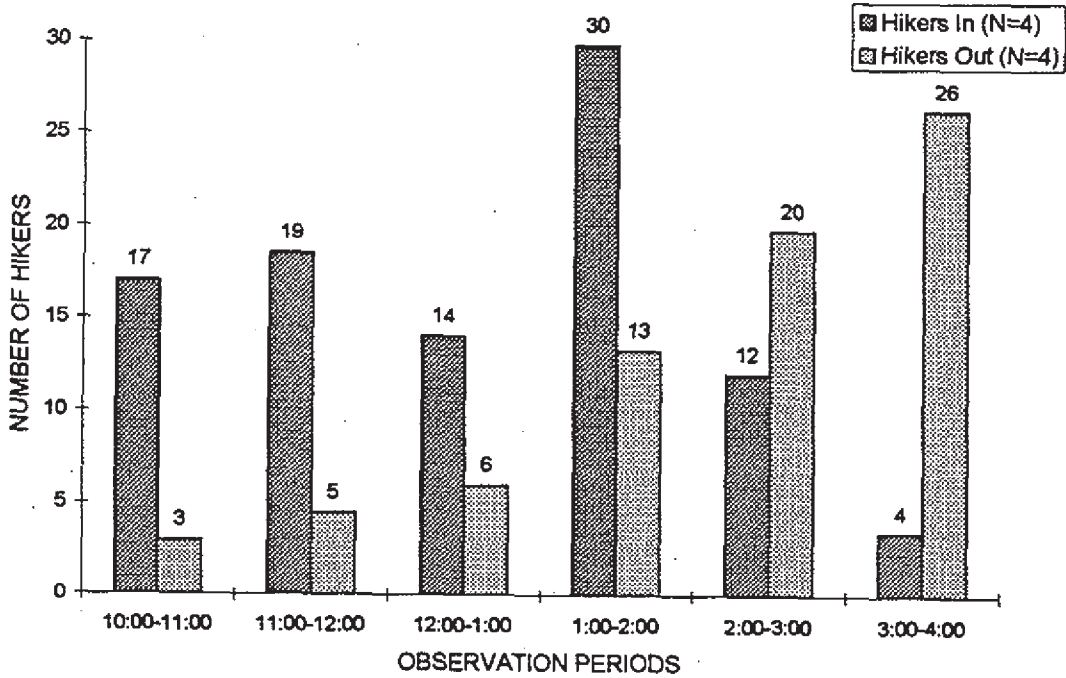
HIKERS ENTERING AND LEAVING SKYLINE TRAIL/LAKES TRAIL JUNCTION (SITE 133) ON OBSERVED WEEKENDS



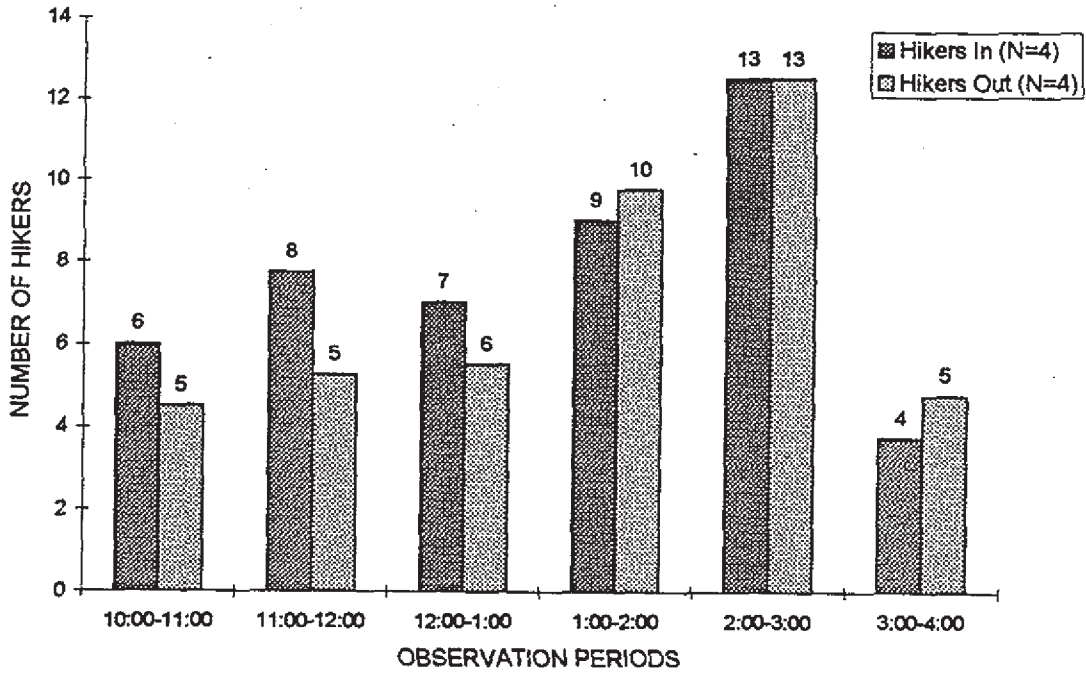
**HIKERS ENTERING AND LEAVING PINNACLE PEAK TRAIL
(SITE 134) ON OBSERVED WEEKDAYS**



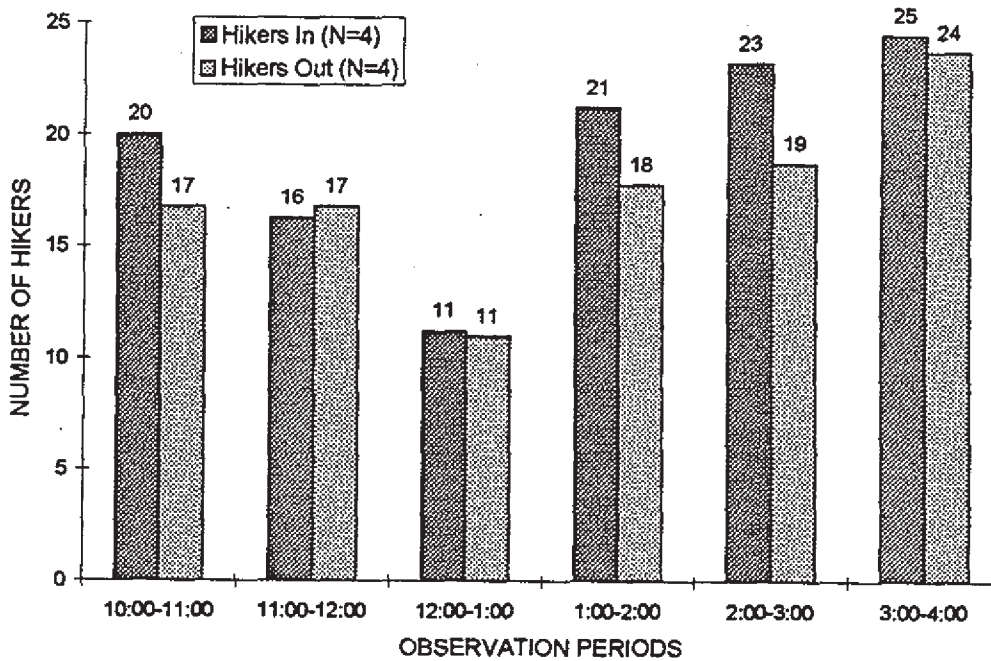
**HIKERS ENTERING AND LEAVING PINNACLE PEAK TRAIL
(SITE 134) ON OBSERVED WEEKENDS**



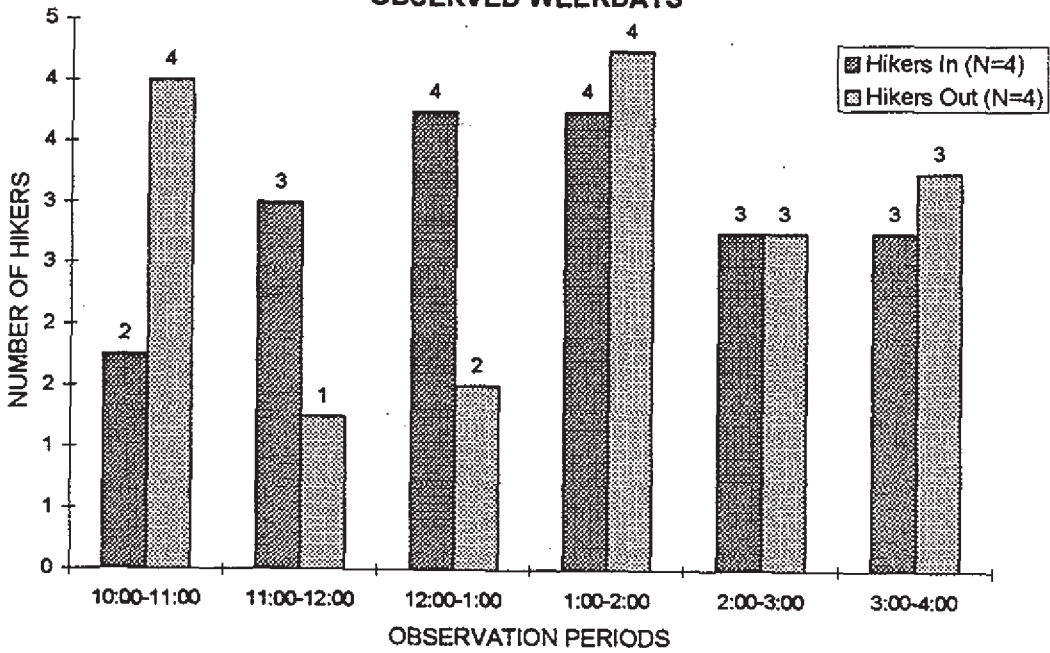
HIKERS ENTERING AND LEAVING TRAIL IN FRONT OF REFLECTION LAKES (SITE 135) ON OBSERVED WEEKDAYS



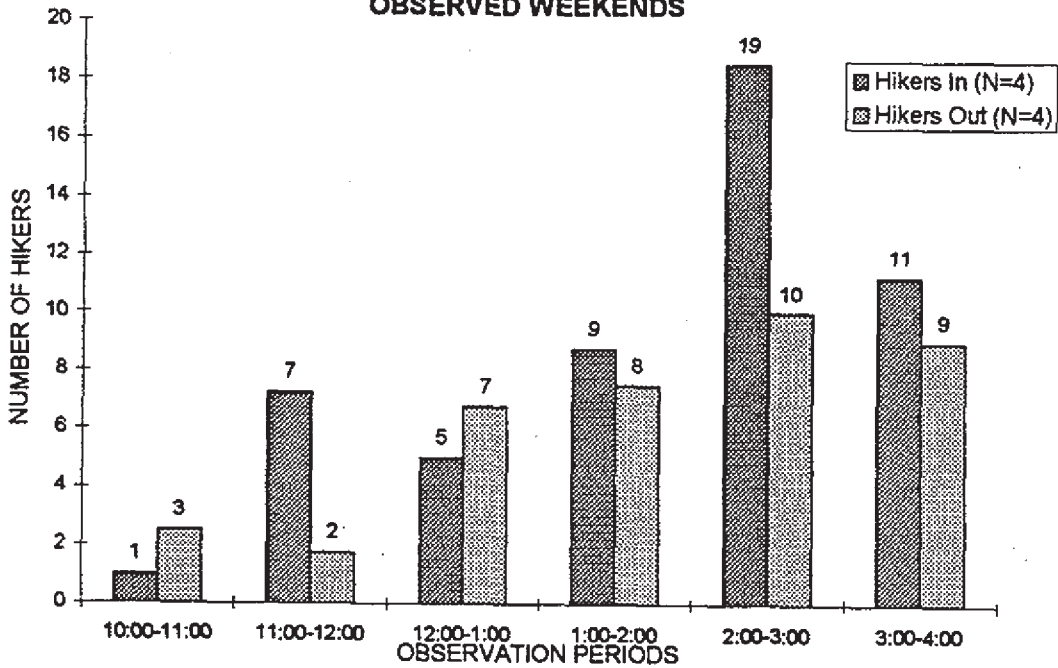
HIKERS ENTERING AND LEAVING TRAIL IN FRONT OF REFLECTION LAKES (SITE 135) ON OBSERVED WEEKENDS



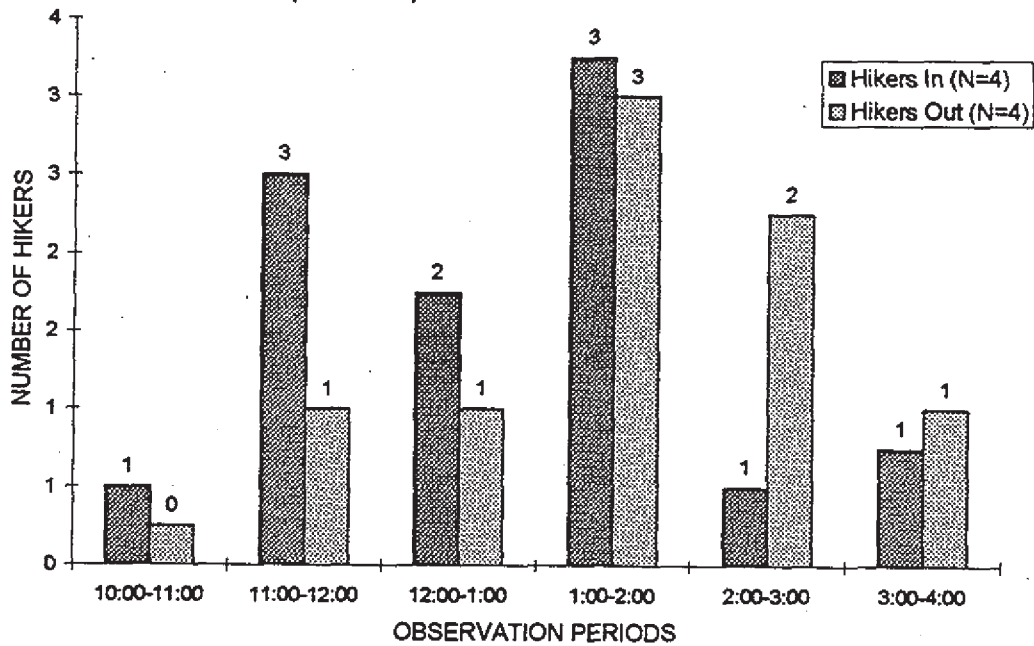
**HIKERS ENTERING AND LEAVING REFLECTION LAKES TRAIL
(WEST)/WONDERLAND TRAIL JUNCTION (SITE 136) ON
OBSERVED WEEKDAYS**



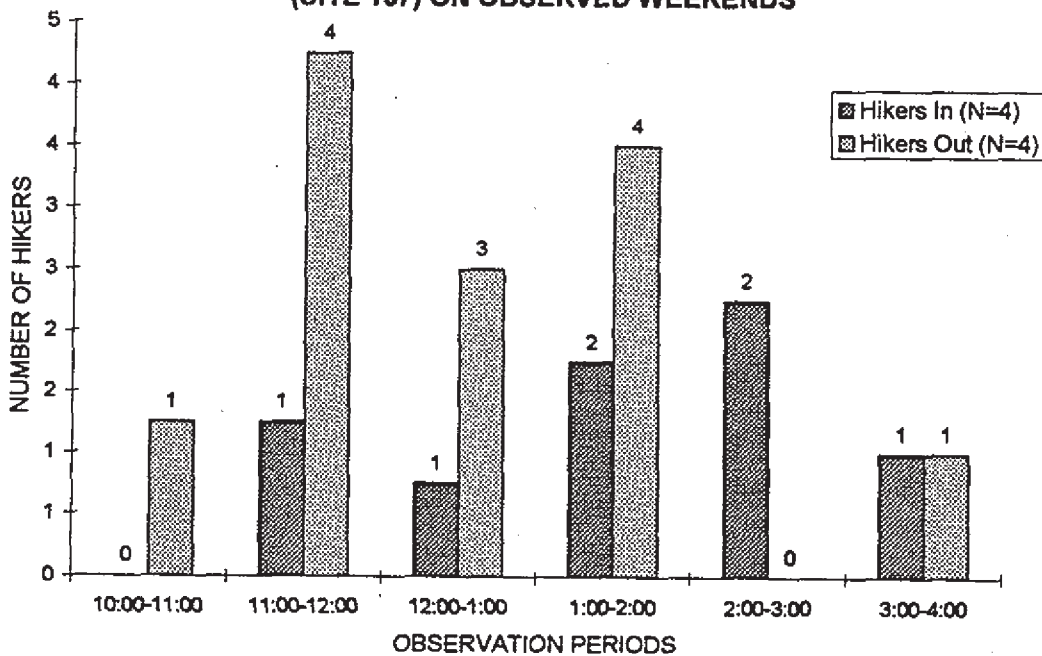
**HIKERS ENTERING AND LEAVING REFLECTION LAKES TRAIL
(WEST)/WONDERLAND TRAIL JUNCTION (SITE 136) ON
OBSERVED WEEKENDS**



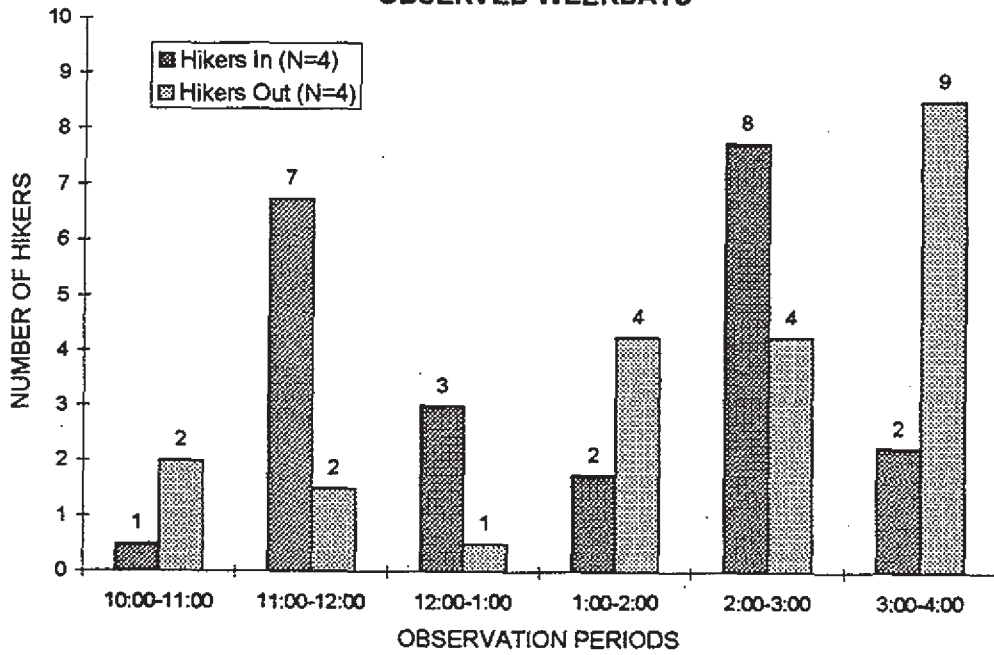
**HIKERS ENTERING AND LEAVING WONDERLAND
TRAIL/REFLECTION LAKES TRAIL (WEST) JUNCTION
(SITE 137) ON OBSERVED WEEKDAYS**



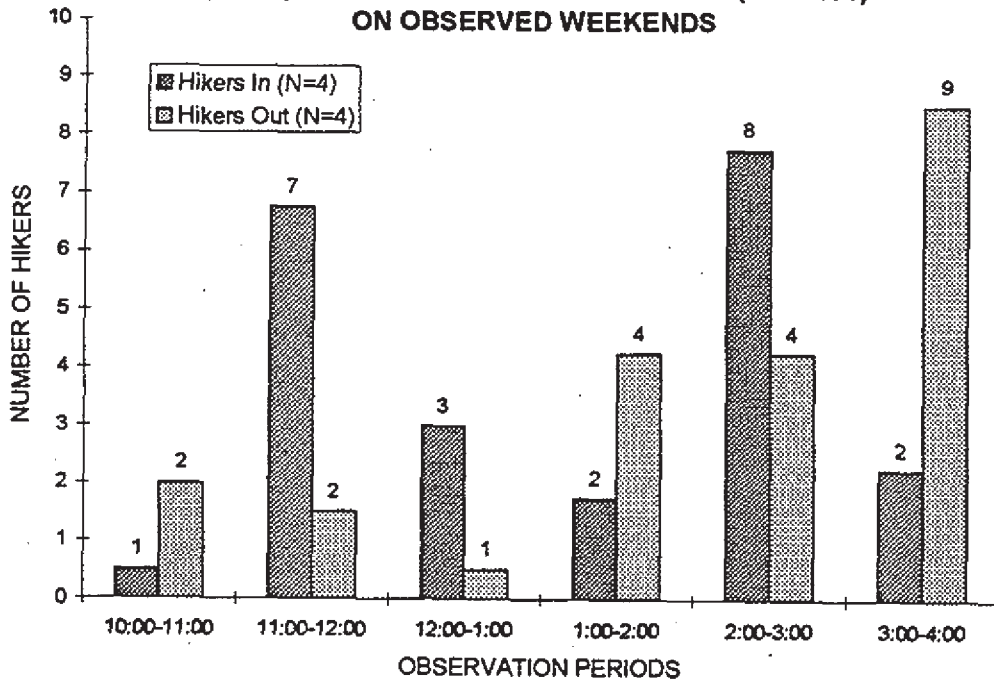
**HIKERS ENTERING AND LEAVING WONDERLAND
TRAIL/REFLECTION LAKES TRAIL (WEST) JUNCTION
(SITE 137) ON OBSERVED WEEKENDS**



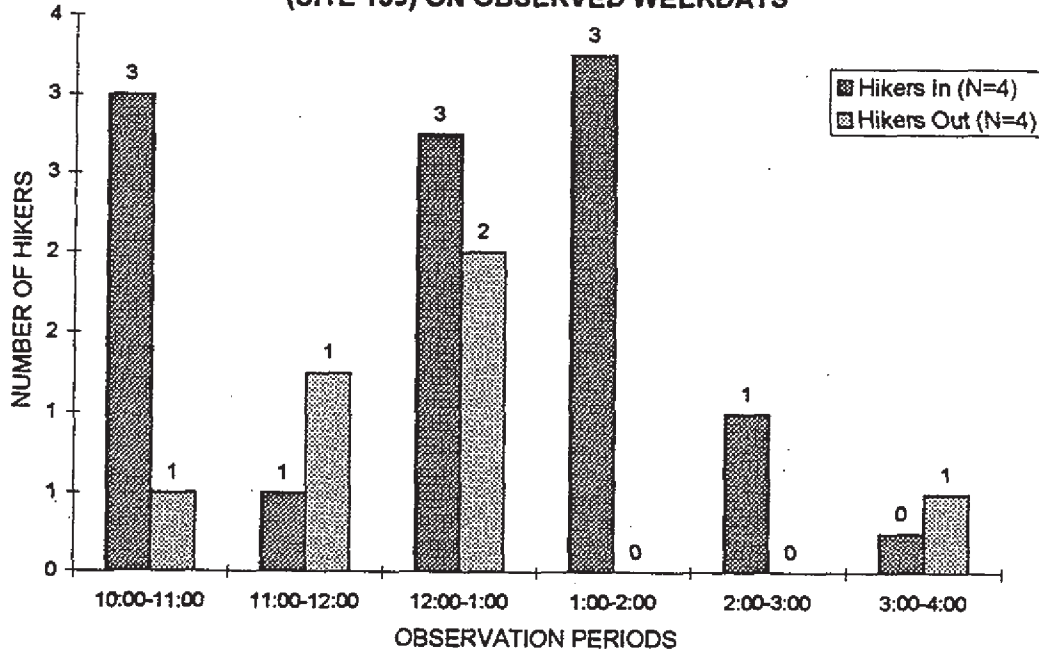
**HIKERS ENTERING AND LEAVING REFLECTION LAKES TRAIL
(EAST)/WONDERLAND TRAIL JUNCTION (SITE 138) ON
OBSERVED WEEKDAYS**



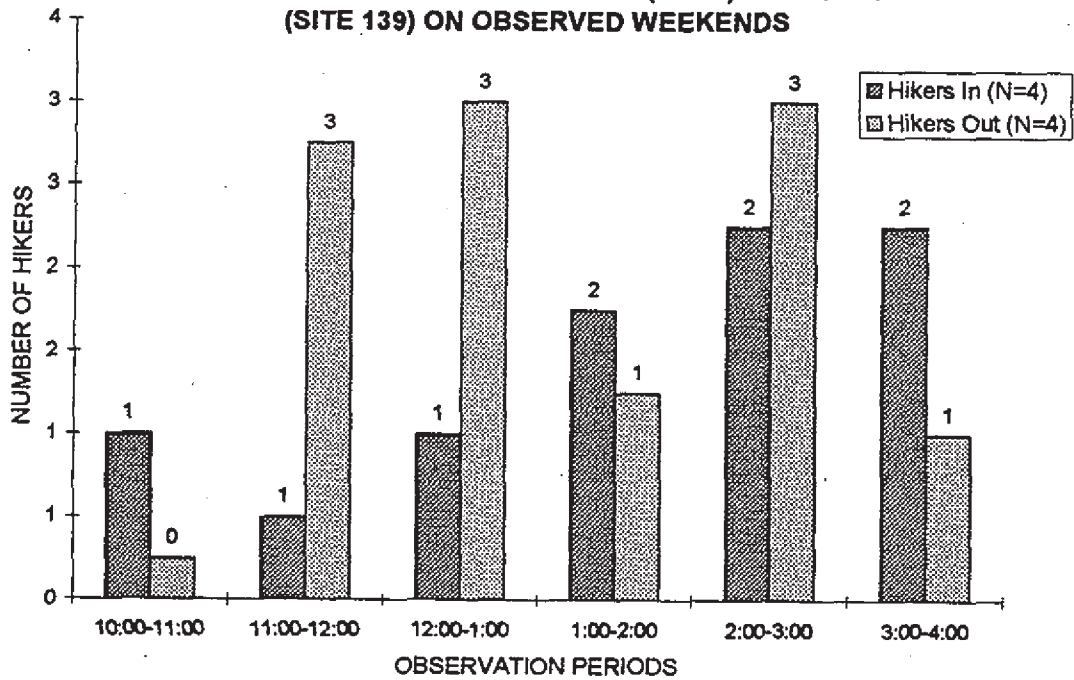
**HIKERS ENTERING AND LEAVING REFLECTION LAKES TRAIL
(EAST)/WONDERLAND TRAIL JUNCTION (SITE 138)
ON OBSERVED WEEKENDS**



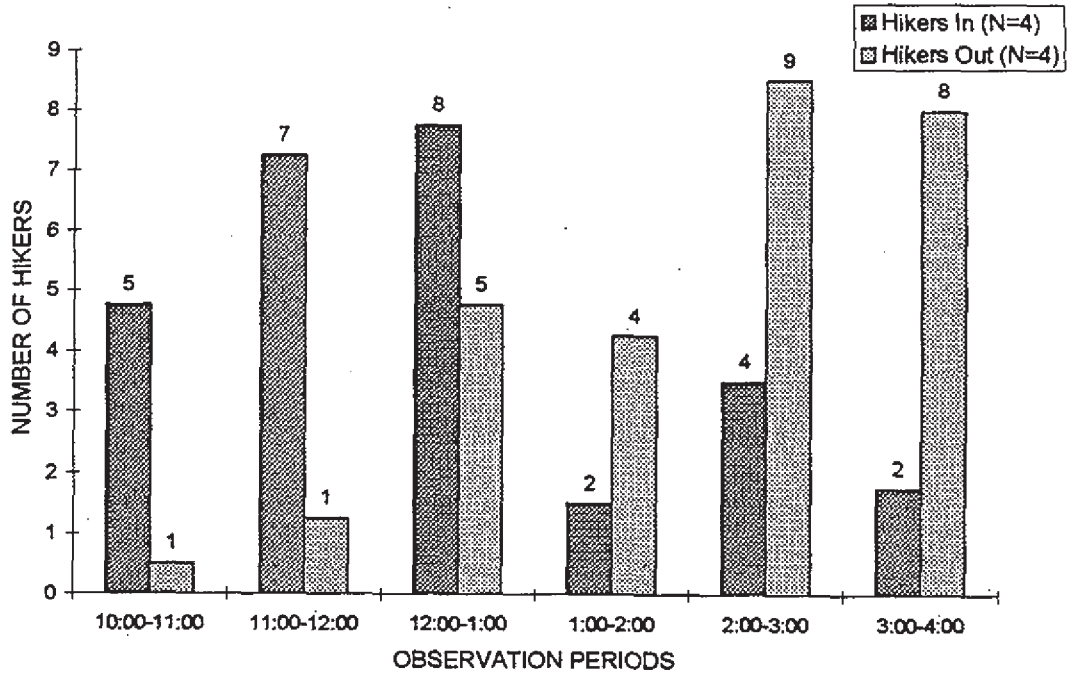
**HIKERS ENTERING AND LEAVING WONDERLAND
TRAIL/REFLECTION LAKES TRAIL (EAST) JUNCTION
(SITE 139) ON OBSERVED WEEKDAYS**



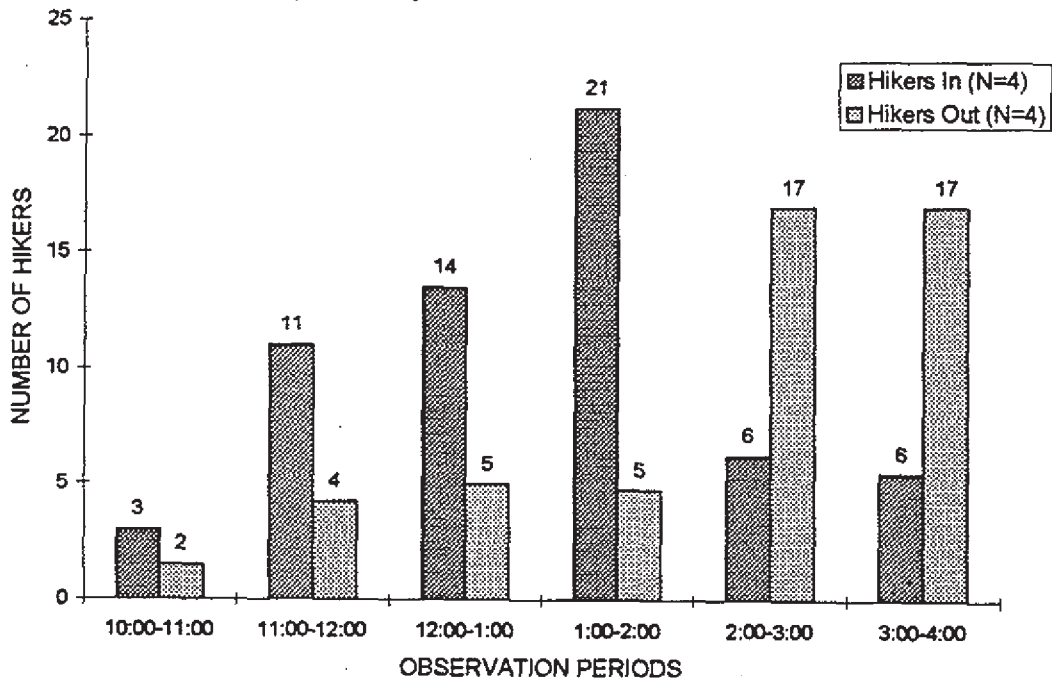
**HIKERS ENTERING AND LEAVING WONDERLAND
TRAIL/REFLECTION LAKES TRAIL (EAST) JUNCTION
(SITE 139) ON OBSERVED WEEKENDS**



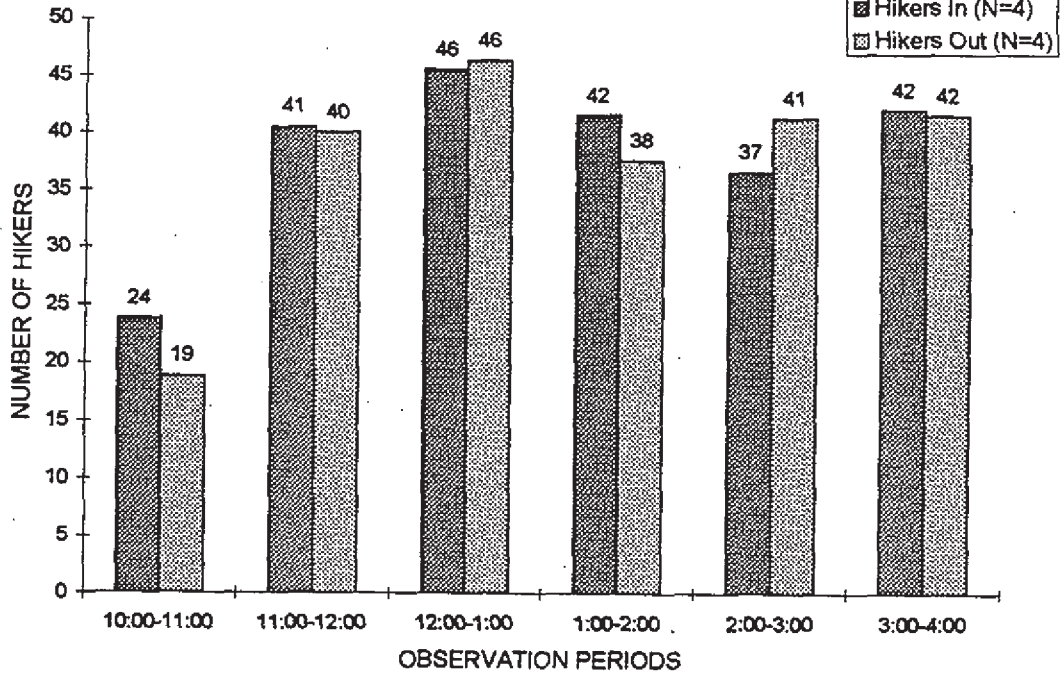
**HIKERS ENTERING AND LEAVING BENCH LAKE TRAIL
(SITE 140) ON OBSERVED WEEKDAYS**



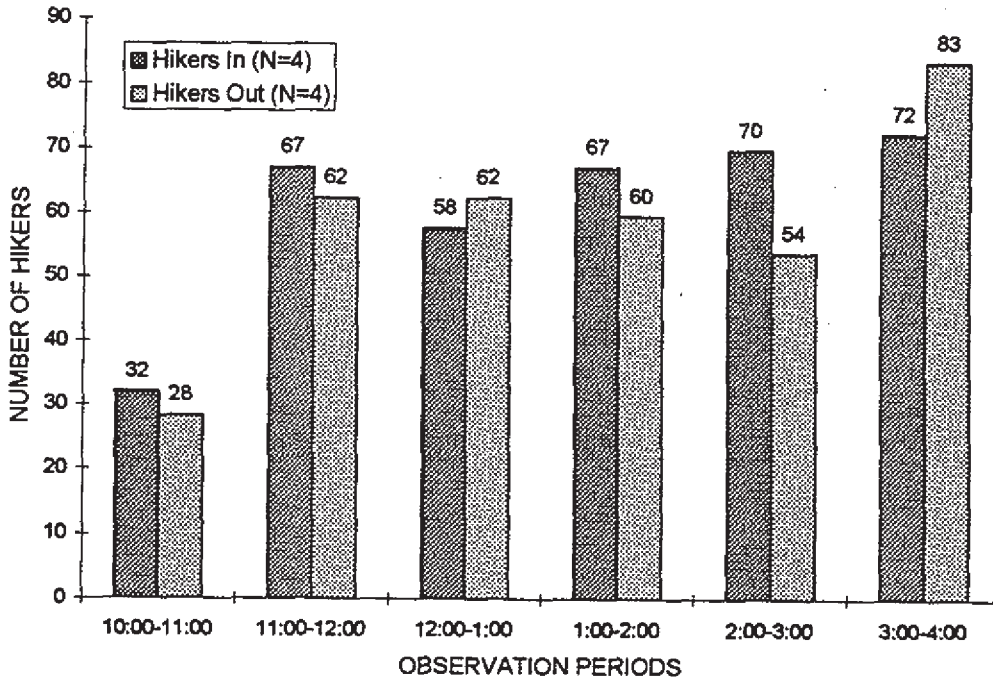
**HIKERS ENTERING AND LEAVING BENCH LAKE TRAIL
(SITE 140) ON OBSERVED WEEKENDS**



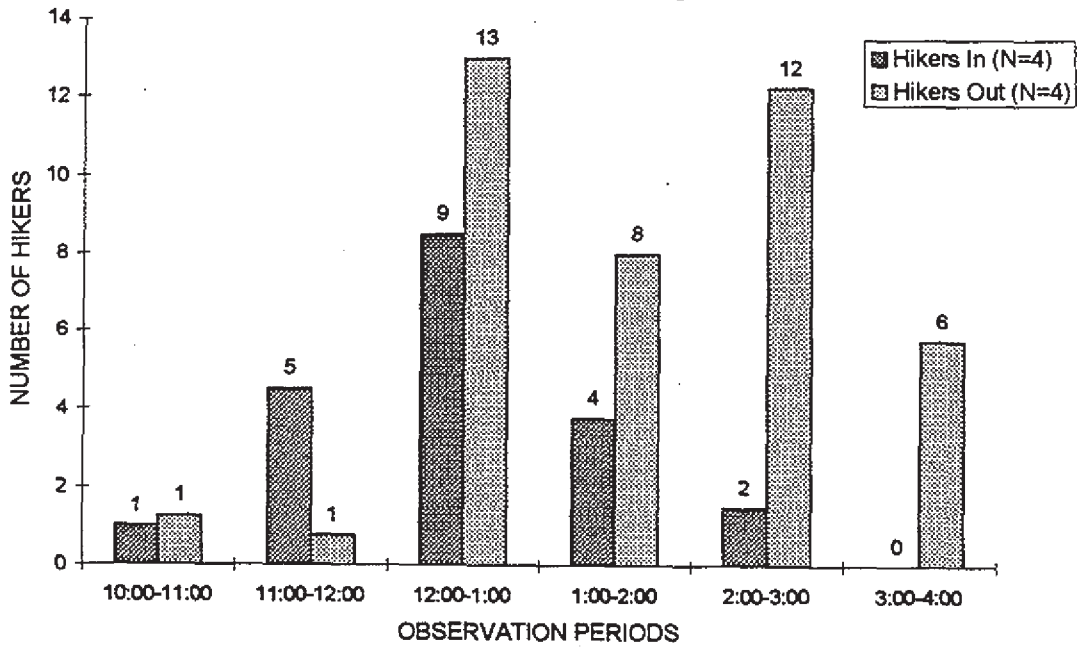
**HIKERS ENTERING AND LEAVING BOX CANYON LOOP TRAIL
(SITE 141) ON OBSERVED WEEKDAYS**



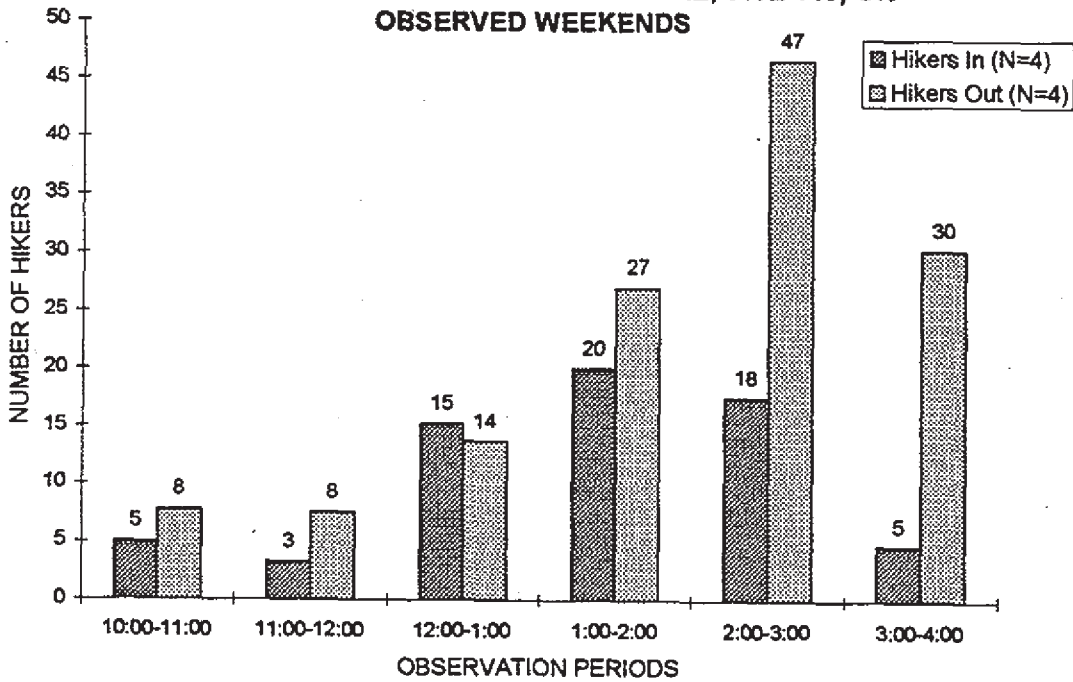
**HIKERS ENTERING AND LEAVING BOX CANYON LOOP TRAIL
(SITE 141) ON OBSERVED WEEKENDS**



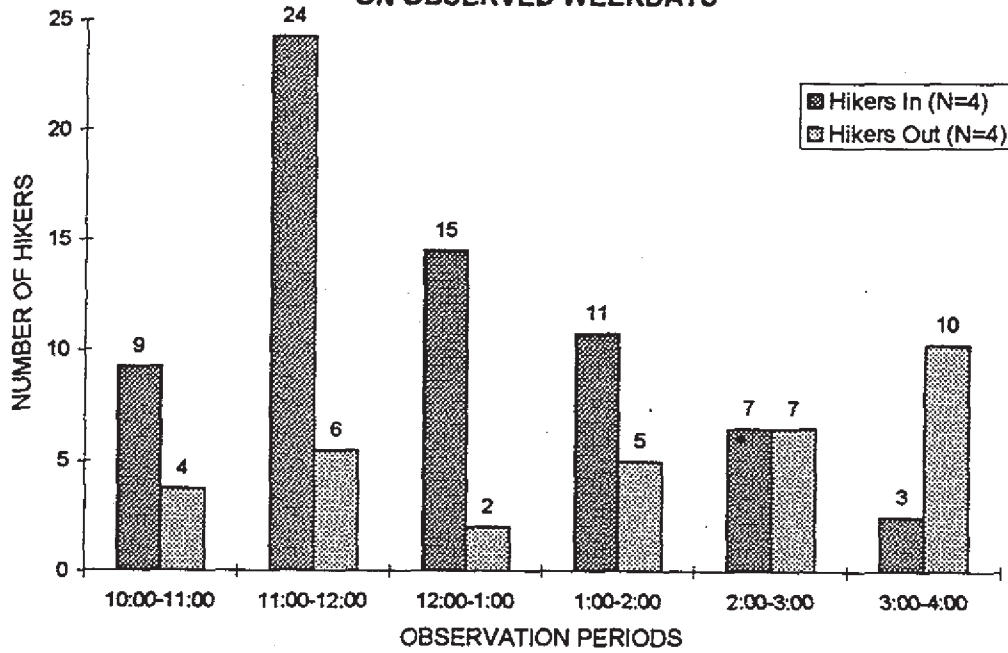
HIKERS ENTERING AND LEAVING NACHES PEAK TRAIL (ENTER FROM PARK NEAR UPPER TIPSOO LAKE, SITE 143) ON OBSERVED WEEKDAYS



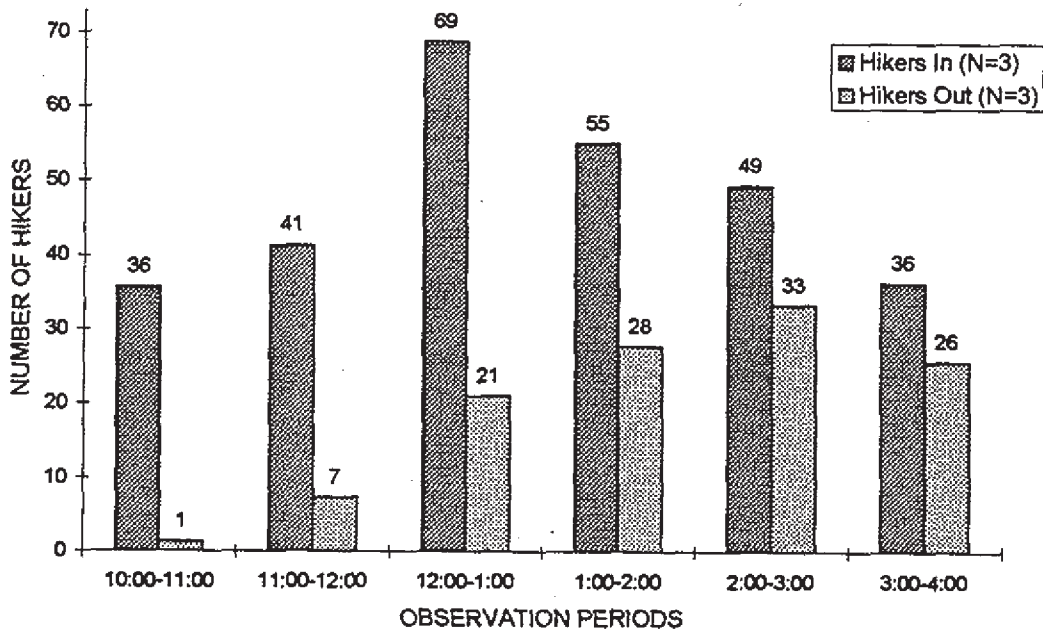
HIKERS ENTERING AND LEAVING NACHES PEAK TRAIL (ENTER FROM PARK NEAR UPPER TIPSOO LAKE, SITE 143) ON OBSERVED WEEKENDS



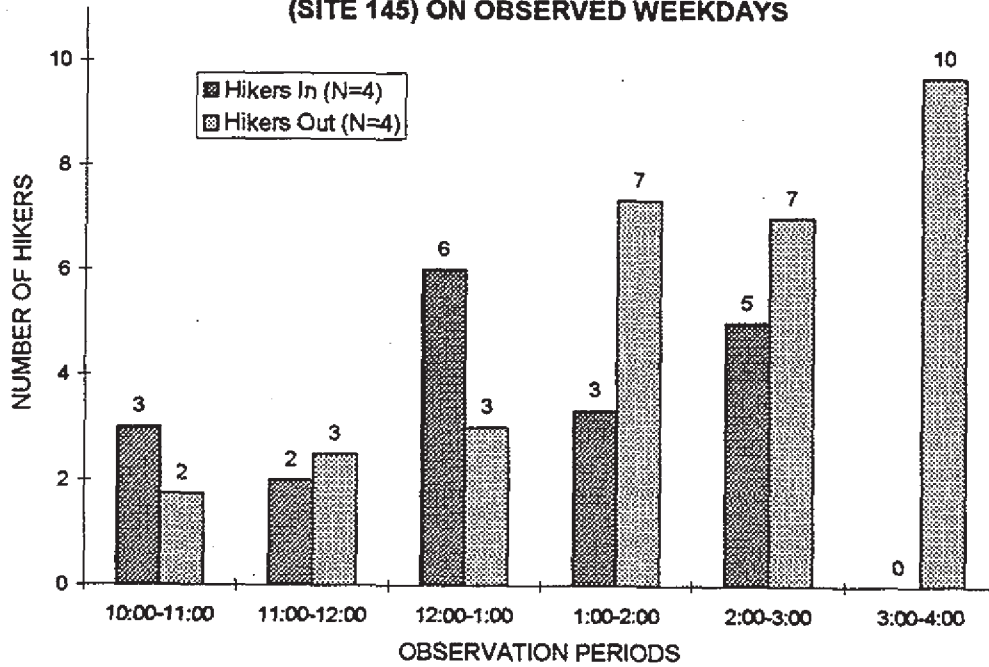
HIKERS ENTERING AND LEAVING NACHES PEAK TRAIL (ENTER FROM PACIFIC CREST TRAIL NEAR PARK ENTRANCE, SITE 144) ON OBSERVED WEEKDAYS



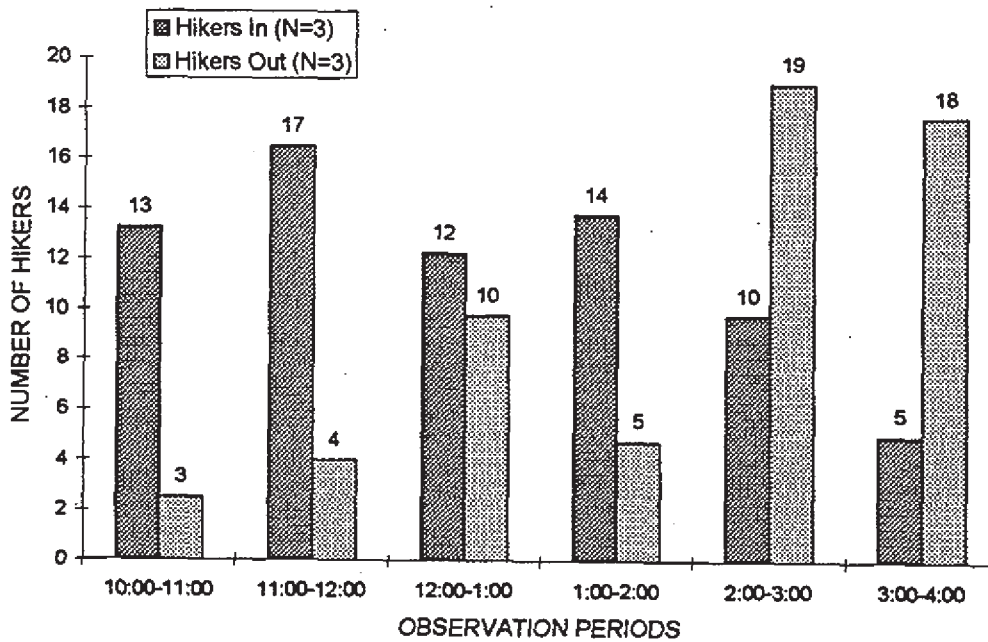
HIKERS ENTERING AND LEAVING NACHES PEAK TRAIL (ENTER FROM PACIFIC CREST TRAIL NEAR PARK ENTRANCE, SITE 144) ON OBSERVED WEEKENDS



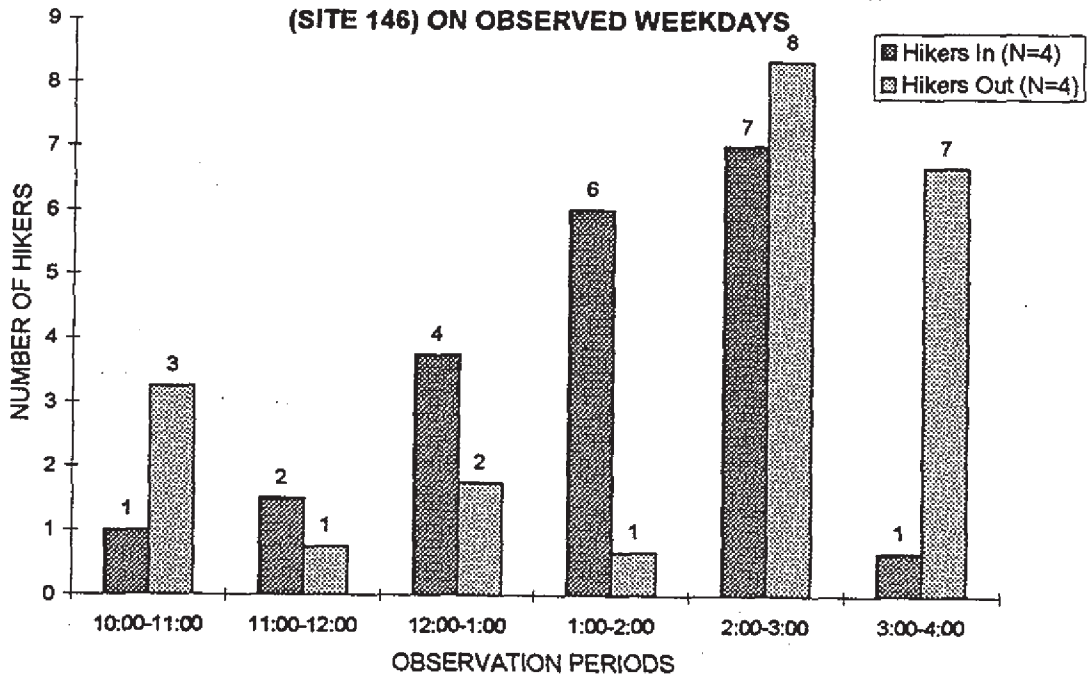
**HIKERS ENTERING AND LEAVING WONDERLAND/MT.
FREEMONT/BURROUGHS MT./SUNRISE CAMP TRAIL JUNCTION
(SITE 145) ON OBSERVED WEEKDAYS**



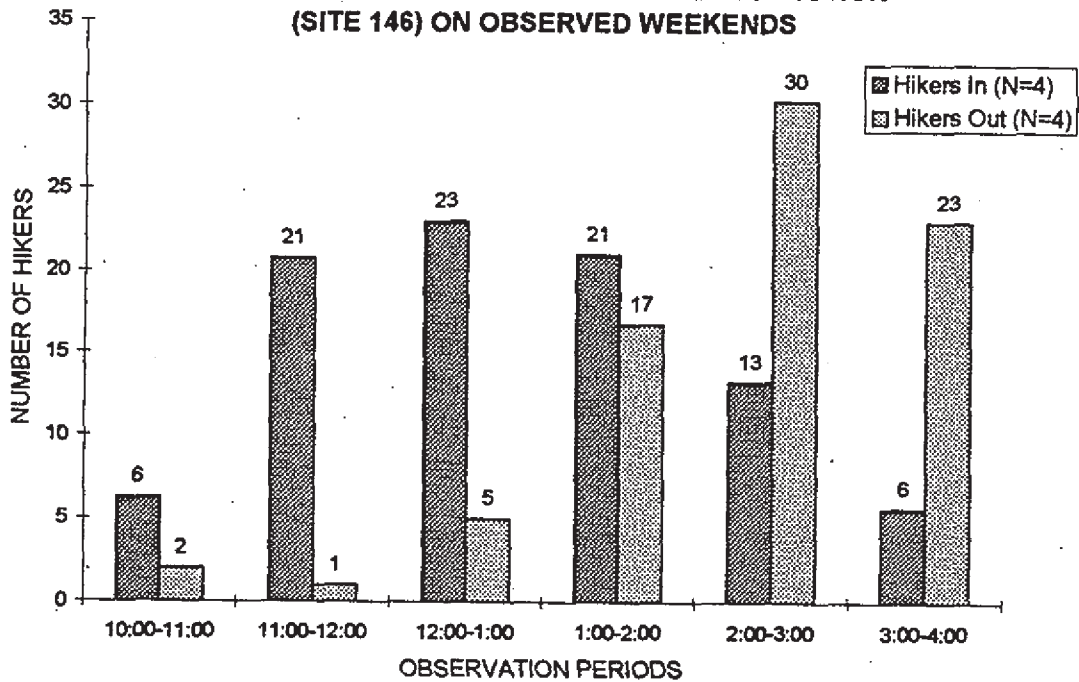
**HIKERS ENTERING AND LEAVING WONDERLAND/MT.
FREEMONT/BURROUGHS MT./SUNRISE CAMP TRAIL JUNCTION
(SITE 145) ON OBSERVED WEEKENDS**



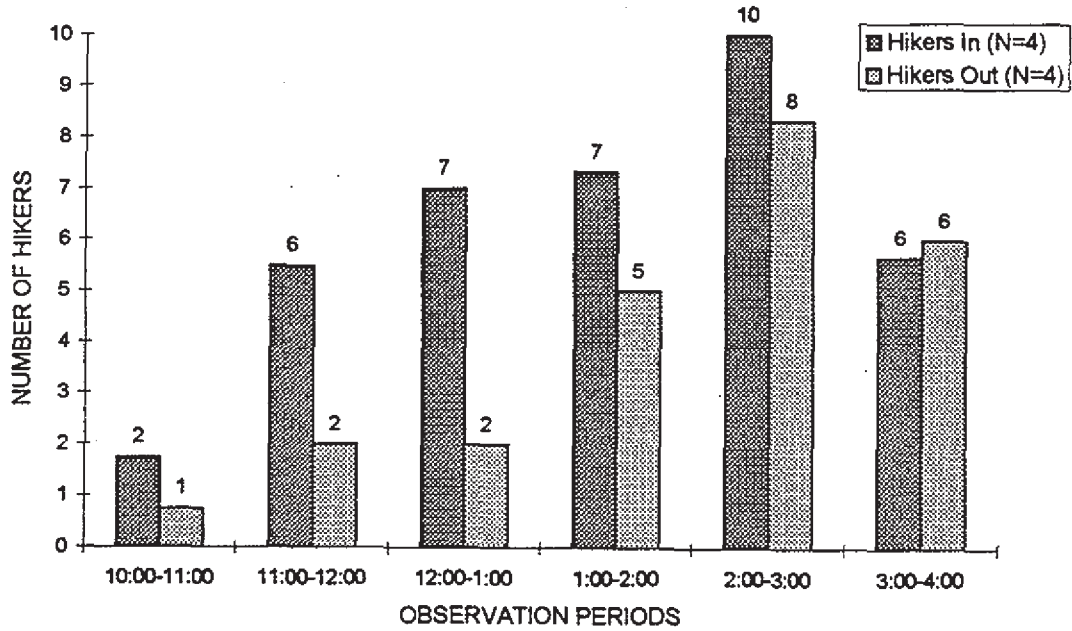
**HIKERS ENTERING AND LEAVING MT. FREEMONT/BURROUGHS
MT.WONDERLAND/SUNRISE CAMP TRAIL JUNCTION
(SITE 146) ON OBSERVED WEEKDAYS**



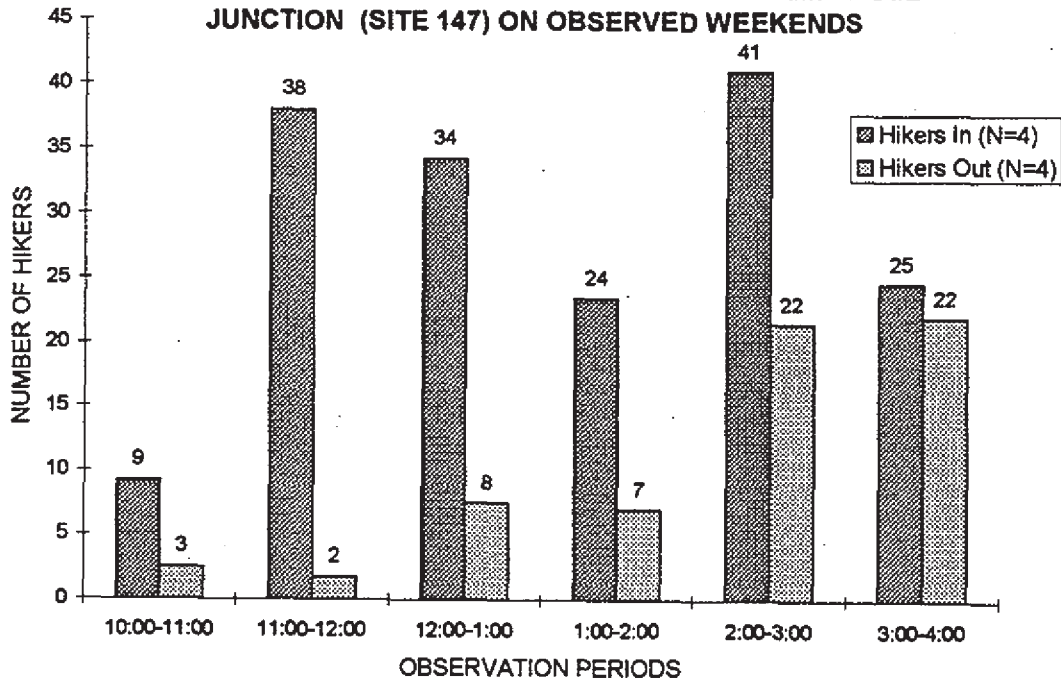
**HIKERS ENTERING AND LEAVING MT. FREEMONT/BURROUGHS
MT.WONDERLAND/SUNRISE CAMP TRAIL JUNCTION
(SITE 146) ON OBSERVED WEEKENDS**



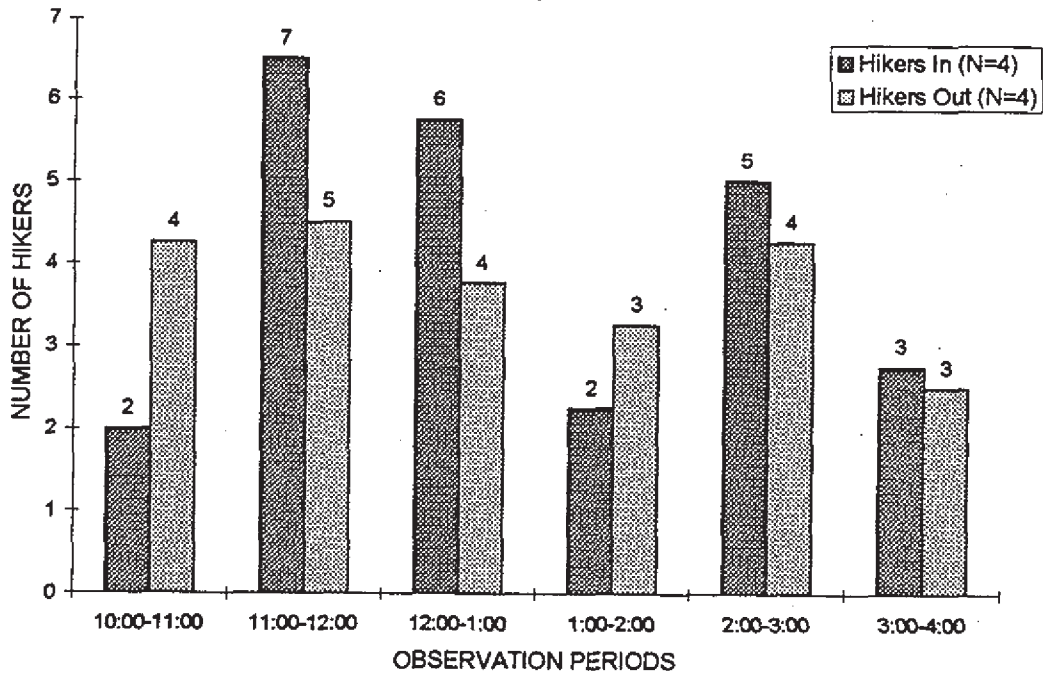
**HIKERS ENTERING AND LEAVING BURROUGHS
MT./WONDERLAND/MT. FREEMONT/SUNRISE CAMP TRAIL
JUNCTION (SITE 147) ON OBSERVED WEEKDAYS**



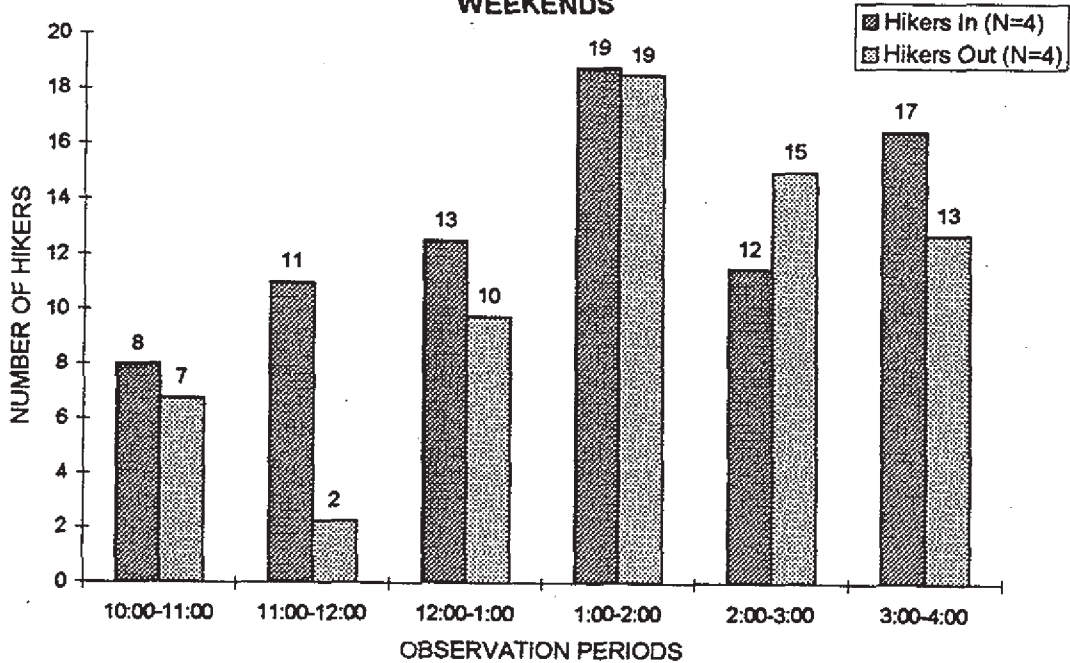
**HIKERS ENTERING AND LEAVING BURROUGHS
MT./WONDERLAND/MT. FREEMONT/SUNRISE CAMP TRAIL
JUNCTION (SITE 147) ON OBSERVED WEEKENDS**



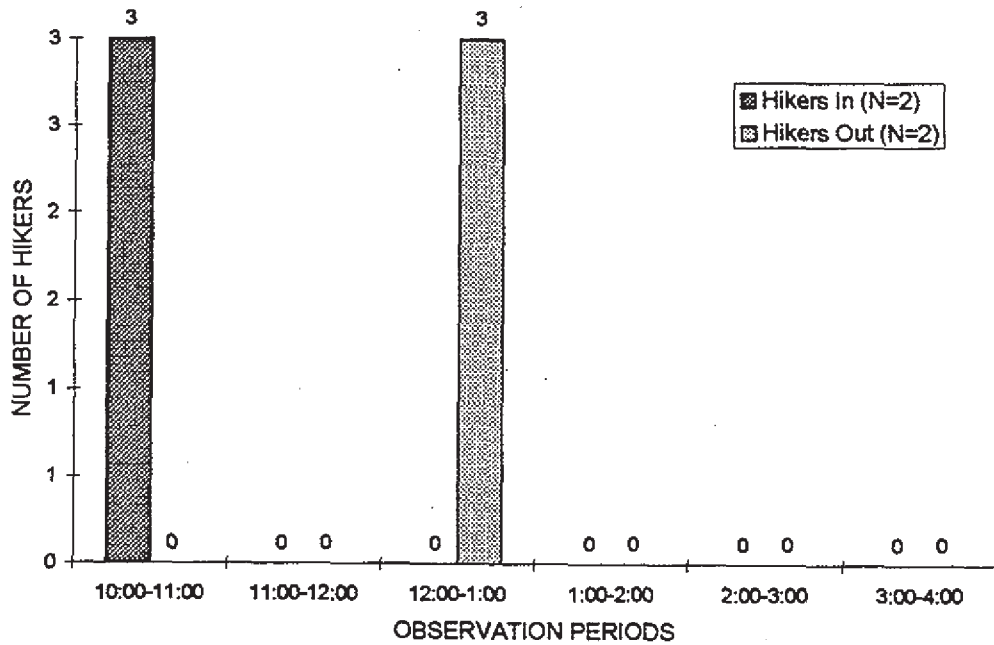
HIKERS ENTERING AND LEAVING GLACIER BASIN:END OF MAINTAINED TRAIL (SITE 148) ON OBSERVED WEEKDAYS



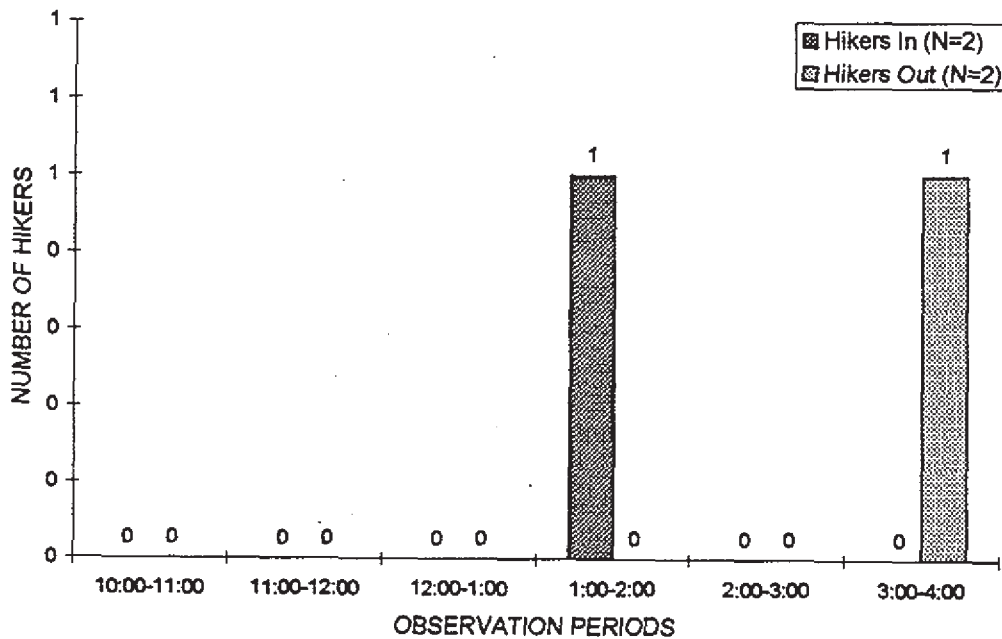
HIKERS ENTERING AND LEAVING GLACIER BASIN:END OF MAINTAINED TRAIL (SITE 148) ON OBSERVED WEEKENDS



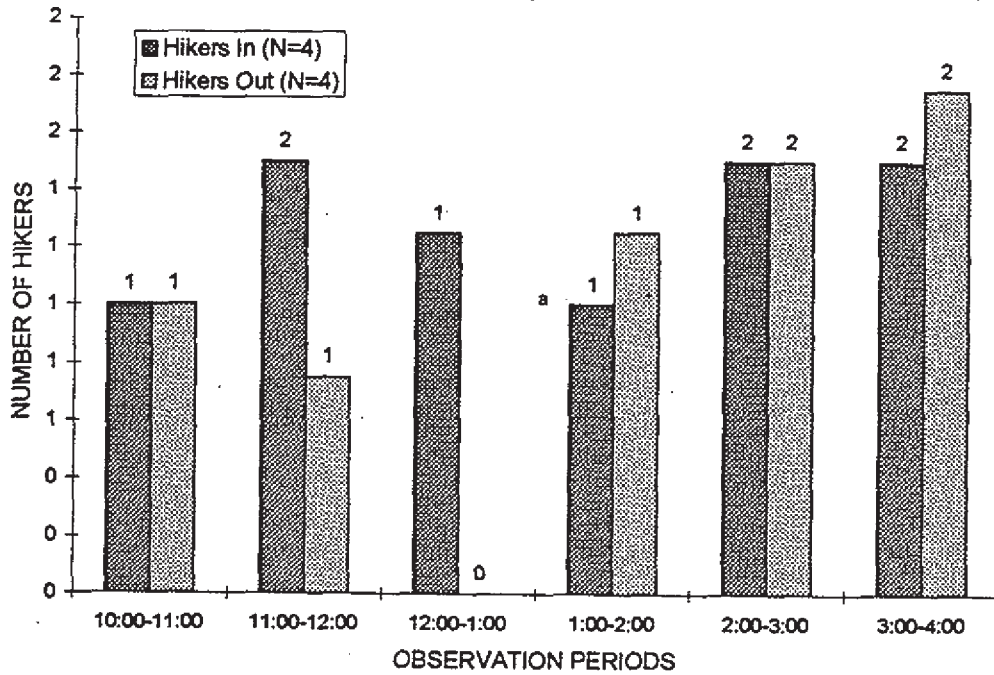
**HIKERS ENTERING AND LEAVING HUCKLEBERRY CREEK TRAIL
(SITE 149) ON OBSERVED WEEKDAYS**



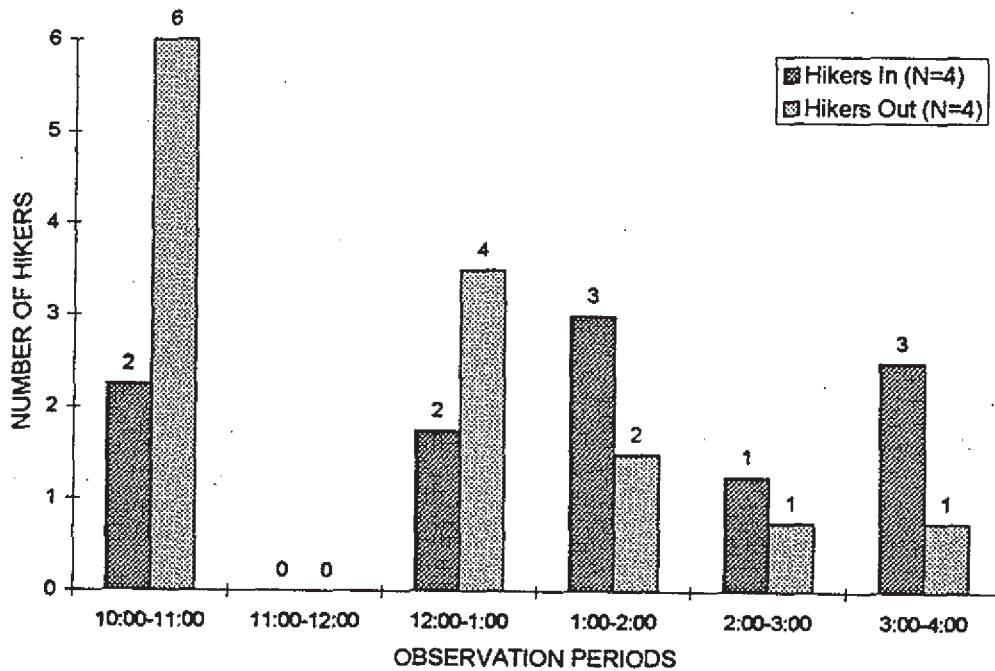
**HIKERS ENTERING AND LEAVING HUCKLEBERRY CREEK TRAIL
(SITE 149) ON OBSERVED WEEKENDS**



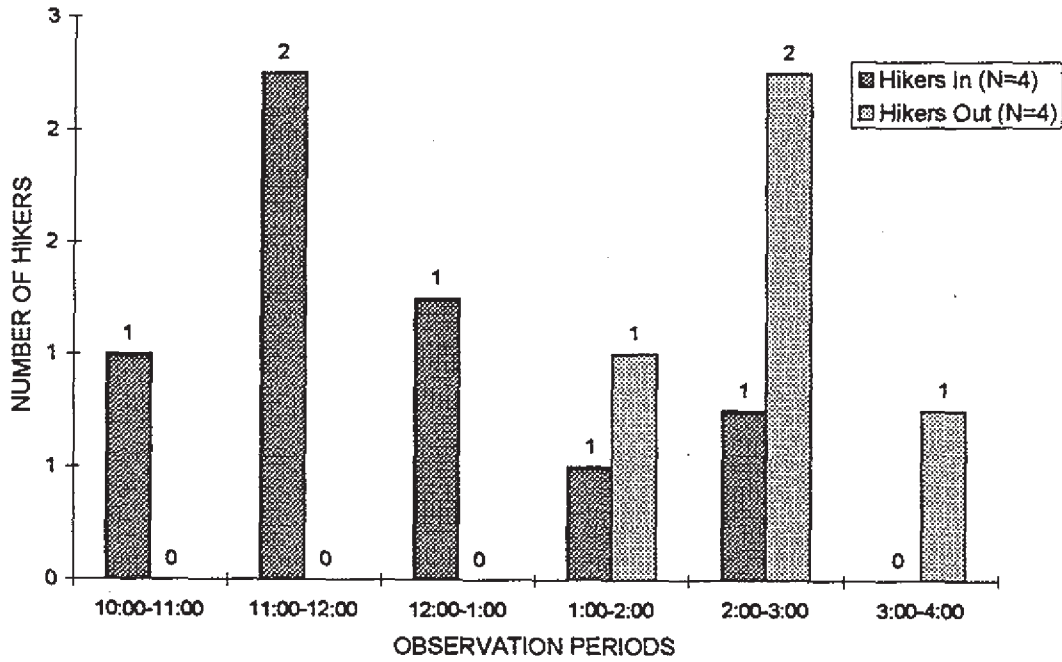
HIKERS ENTERING AND LEAVING LAKE ELEANOR TRAIL INTO FOREST SERVICE (SITE 150) ON OBSERVED WEEKDAYS



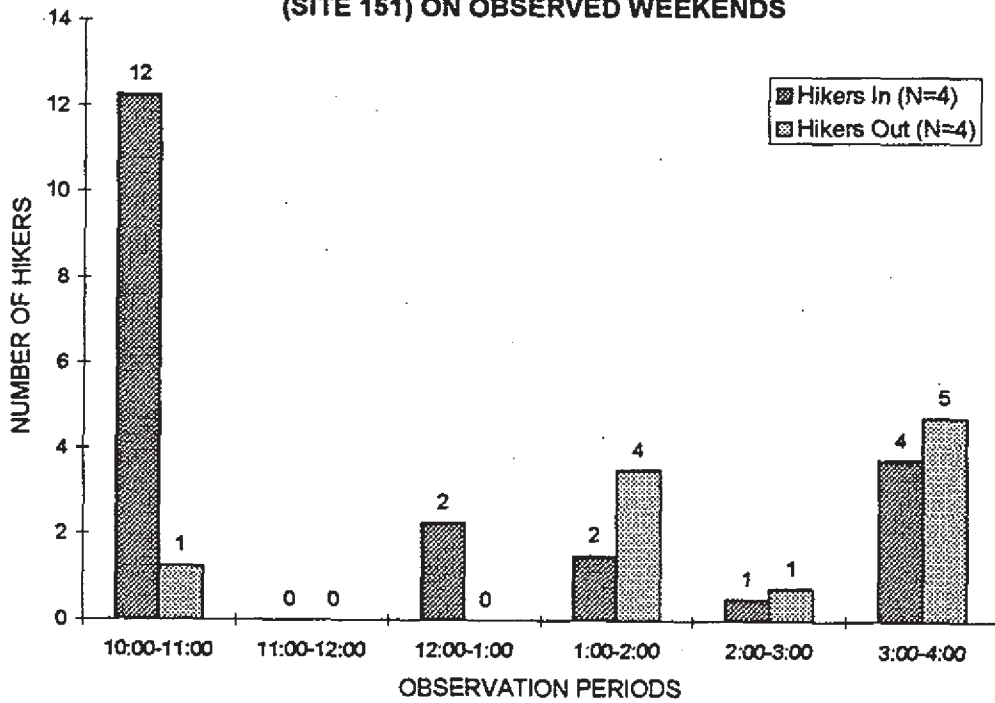
HIKERS ENTERING AND LEAVING LAKE ELEANOR TRAIL INTO FOREST SERVICE (SITE 150) ON OBSERVED WEEKENDS



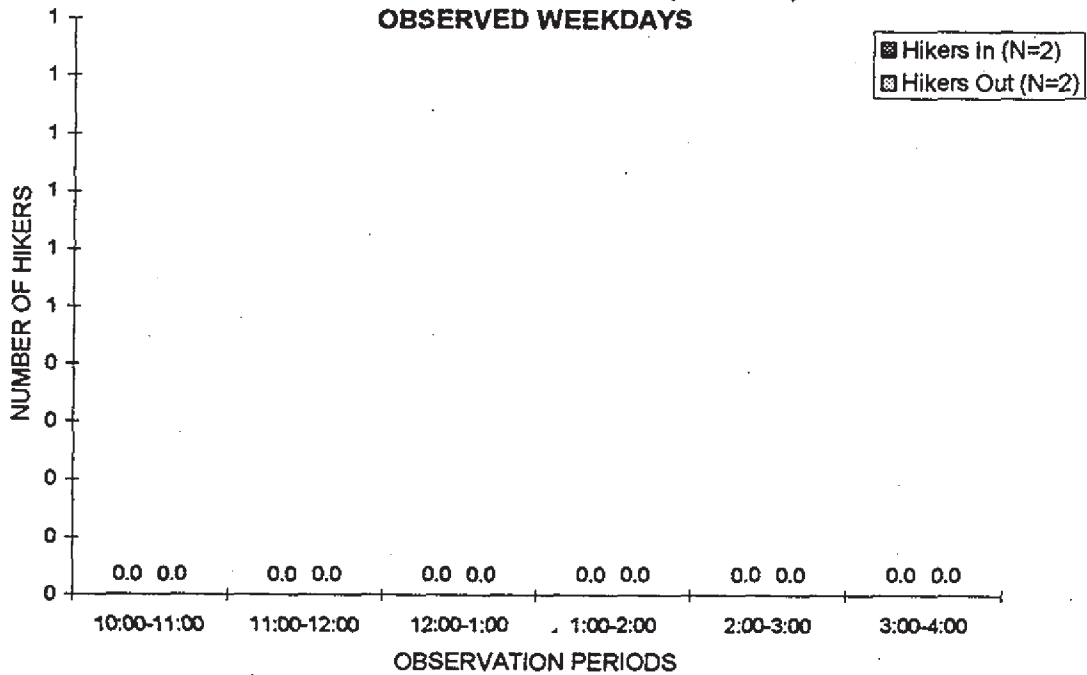
**HIKERS ENTERING AND LEAVING LAKE ELEANOR TRAIL INTO PARK
(SITE 151) ON OBSERVED WEEKDAYS**



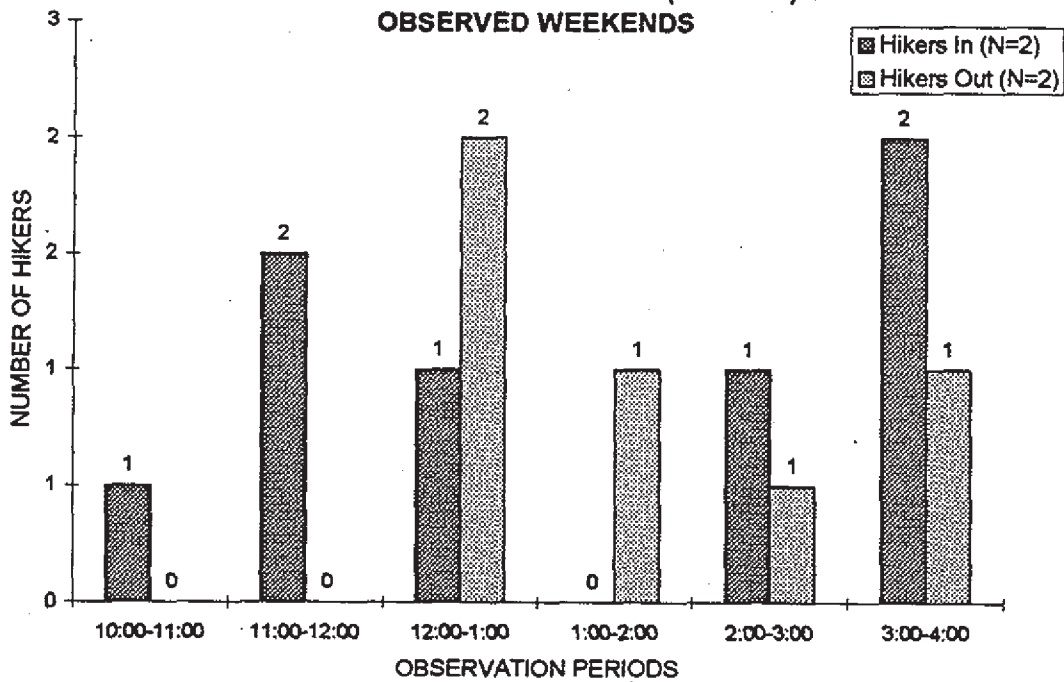
**HIKERS ENTERING AND LEAVING LAKE ELEANOR TRAIL INTO PARK
(SITE 151) ON OBSERVED WEEKENDS**



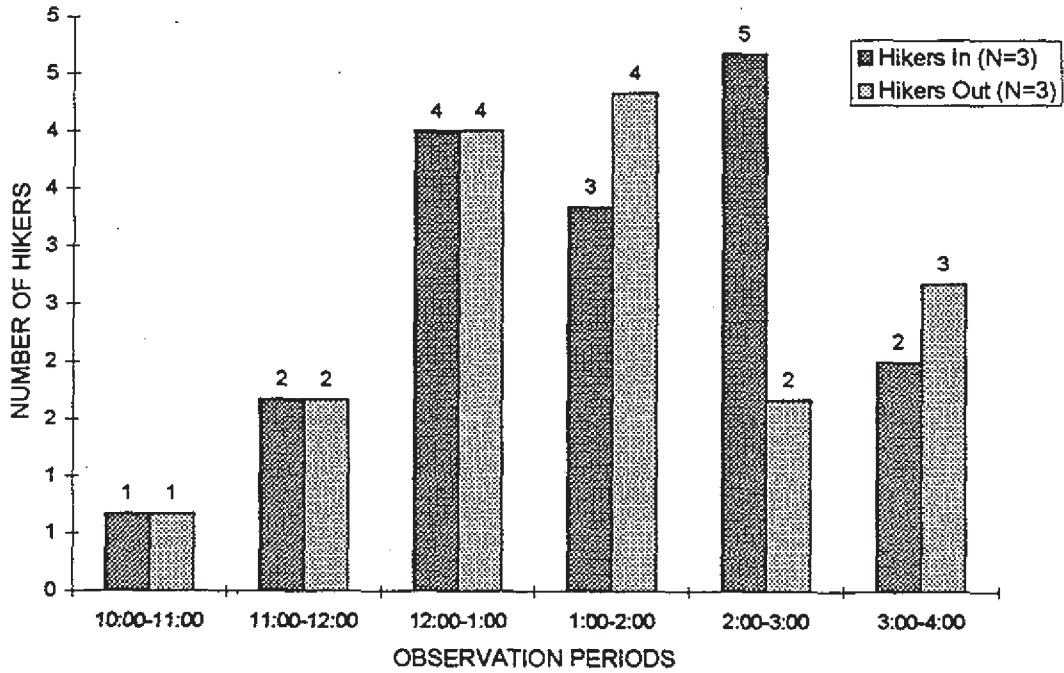
**HIKERS ENTERING AND LEAVING CURTIS WAY TRAIL AT
WONDERLAND TRAIL JUNCTION (SITE 152) ON
OBSERVED WEEKDAYS**



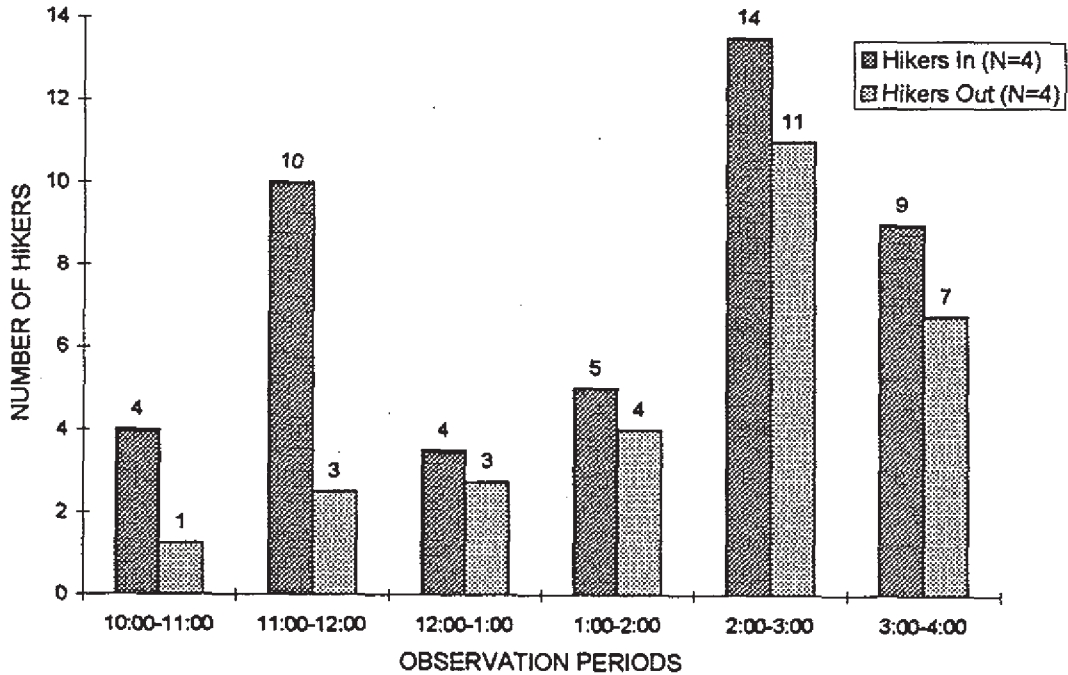
**HIKERS ENTERING AND LEAVING CURTIS WAY TRAIL AT
WONDERLAND TRAIL JUNCTION (SITE 152) ON
OBSERVED WEEKENDS**



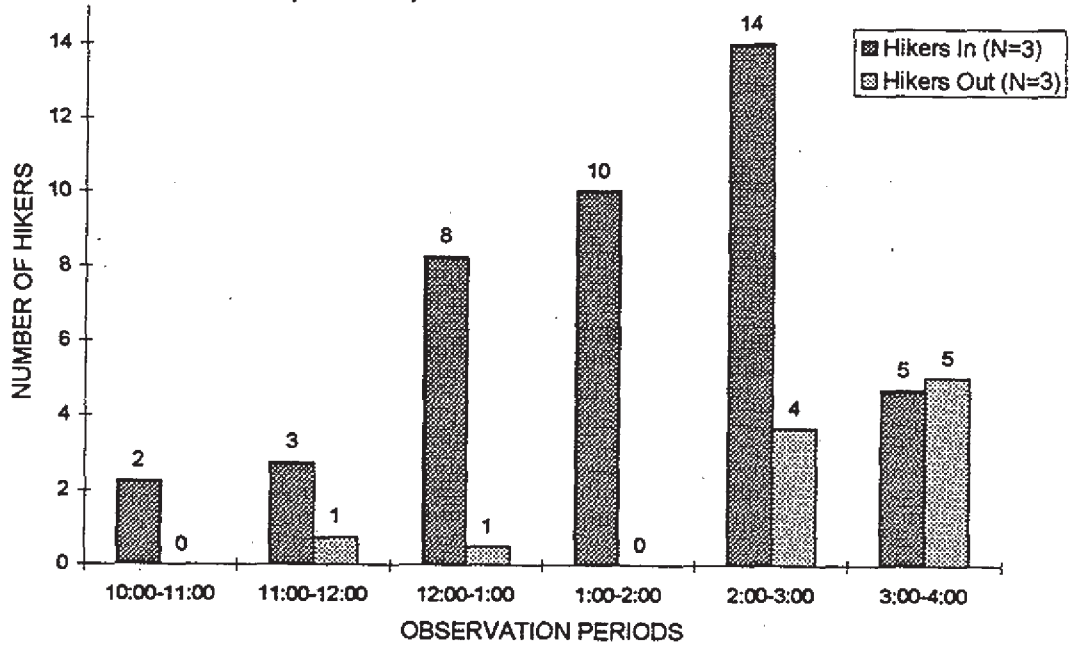
**HIKERS ENTERING AND LEAVING UPPER TIPSOO LAKE
(SITE 154) ON OBSERVED WEEKDAYS**



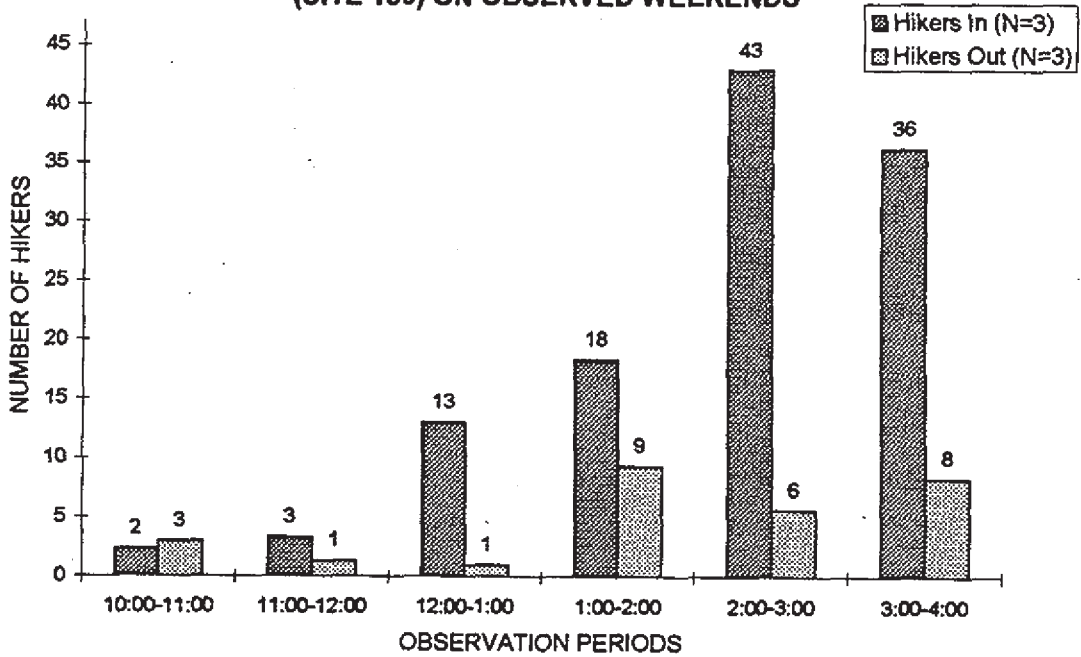
**HIKERS ENTERING AND LEAVING UPPER TIPSOO LAKE
(SITE 154) ON OBSERVED WEEKENDS**



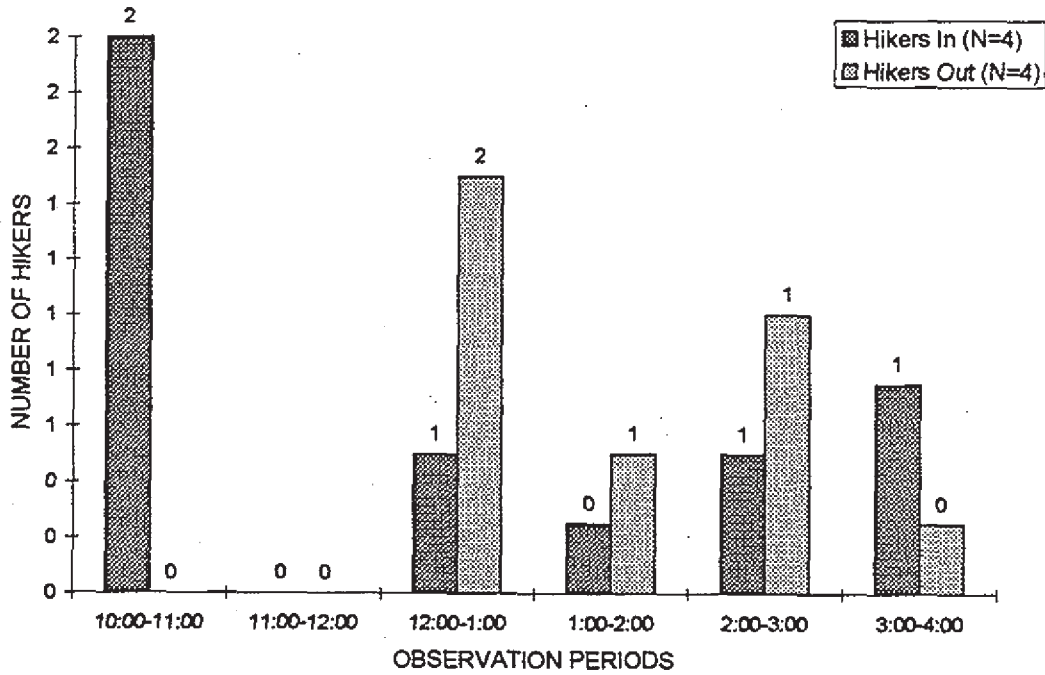
**HIKERS ENTERING AND LEAVING SUNRISE CAMP/BURROUGHS
MT.WONDERLAND/MT. FREEMONT TRAIL JUNCTION
(SITE 156) ON OBSERVED WEEKDAYS**



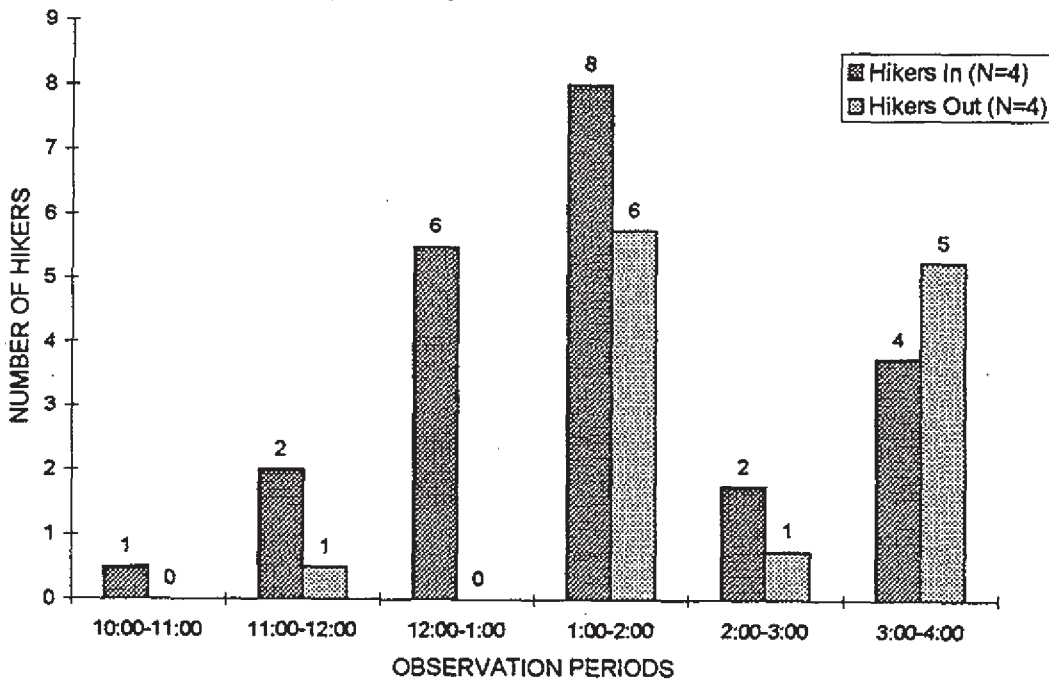
**HIKERS ENTERING AND LEAVING SUNRISE CAMP/BURROUGHS
MT.WONDERLAND/MT. FREEMONT TRAIL JUNCTION
(SITE 156) ON OBSERVED WEEKENDS**



HIKERS ENTERING AND LEAVING VAN TRUMP PARK: TO MILDRED POINT (SITE 158) ON OBSERVED WEEKDAYS



HIKERS ENTERING AND LEAVING VAN TRUMP PARK: TO MILDRED POINT (SITE 158) ON OBSERVED WEEKENDS



Data collected: Loops and Webs

As in the individual survey period data above, observations from some sites were grouped together to represent loops or webs of trails. The figures below show the average patterns of weekday and weekend use for these loops and webs.

Table 8.2 shows the names of the loops and webs. It also serves as a table of contents useful in finding specific figures presenting summarized visitor use data.

Interpreting Summary Data Figures for Loops and Webs

In each of the following figures, data are represented by 6 groups of 2 bars. Each bar represents the average number of visitors entering or leaving a loop or web during a specified hour. Labels are provided in the title, on the axes, and in the legend to define exactly the type of day, the hour, and the direction of travel that is represented.

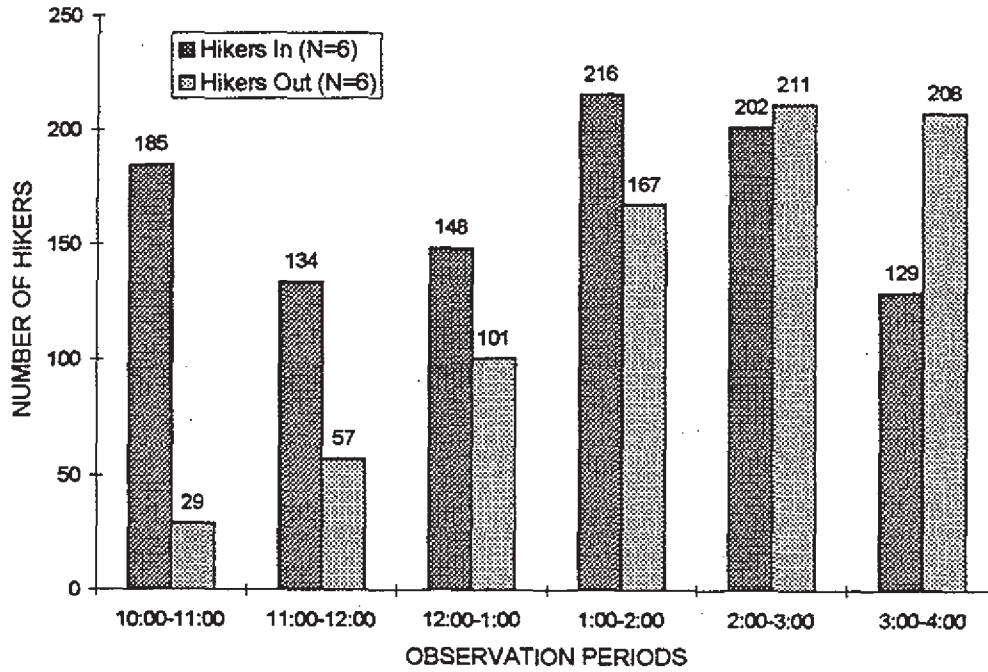
If I wished to know the average number of visitors entering the Trail of Shadows loop between 11:00 and 12:00 on weekends I would first use Table 8.2 to find the page where the Trail of Shadows loop charts are displayed (in this case, page 371). I would then turn to page 371 and read the titles of the two Trail of Shadows loop charts to find the chart for weekends. If I have any confusion about the observed sites that define the Trail of Shadows loop I can refer to the site maps in Figures 6.1 to 6.9. Because I am interested in the number of visitors entering the loop I can tell from the legend that I should refer to the darker gray bars. I move across the X-axis to the set of bars labeled "11:00-12:00", look at the dark gray bar, and find that on weekends an average of 29 hikers entered the Trail of Shadows loop during the hour of interest.

Before making any further conclusions, I should note the number of observations upon which the average is based. The more observations made, the greater degree of confidence I should have in the observed number. For the Trail of Shadows weekend averages, the legend indicates that the $N=6$. This means that observations from 6 days were used to compute the average number of hikers charted. This is the maximum number of observations possible given our research design. Averages based on 4 or 2 days are more likely to be inaccurate.

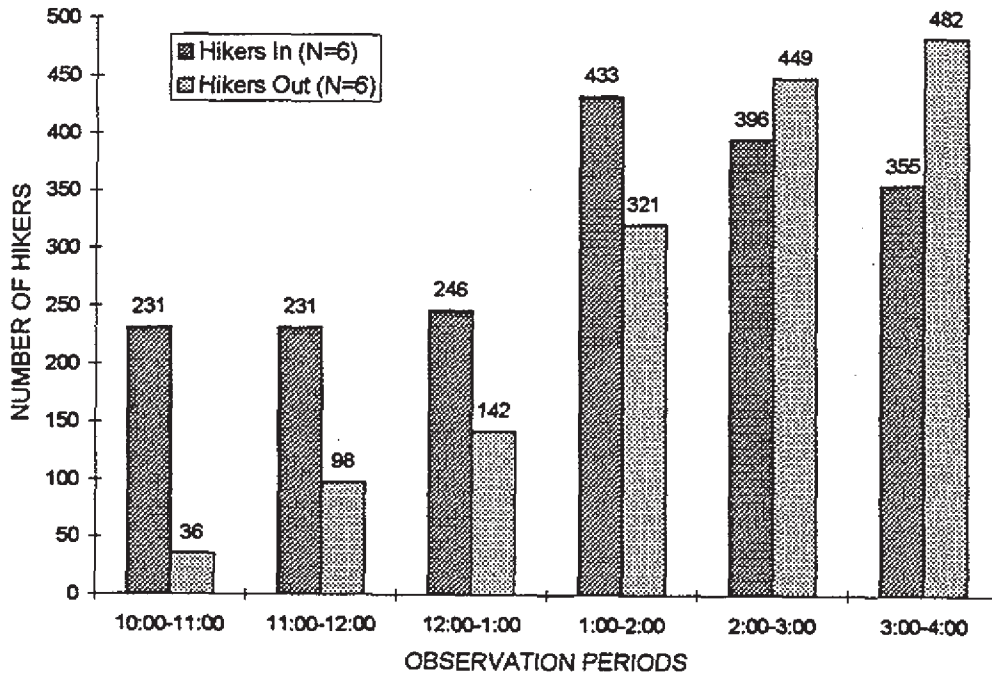
Table 8.2. Surveyed loops and webs and page numbers of corresponding figures summarizing use.

Paradise Upper Web	335
Paradise Lower Web.....	336
Rampart Ridge Loop.....	337
Van Trump Park Loop.....	338
Naches Peak Loop.....	339
Sunrise Rim Trail Loop	340
Trail Of The Shadows Loop	341

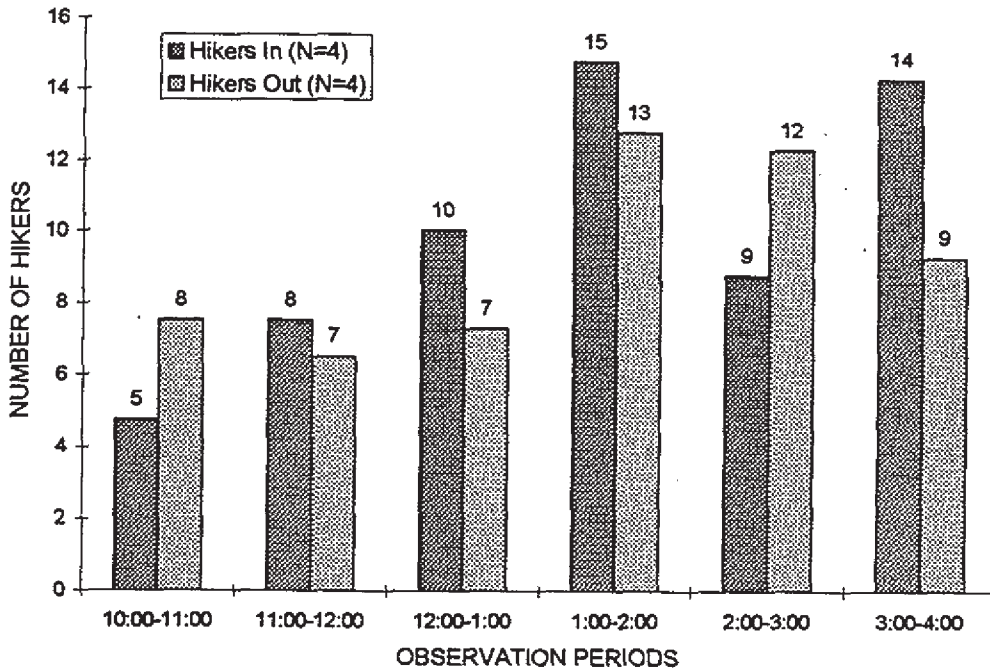
HIKERS ENTERING AND LEAVING PARADISE UPPER WEB ON OBSERVED WEEKDAYS



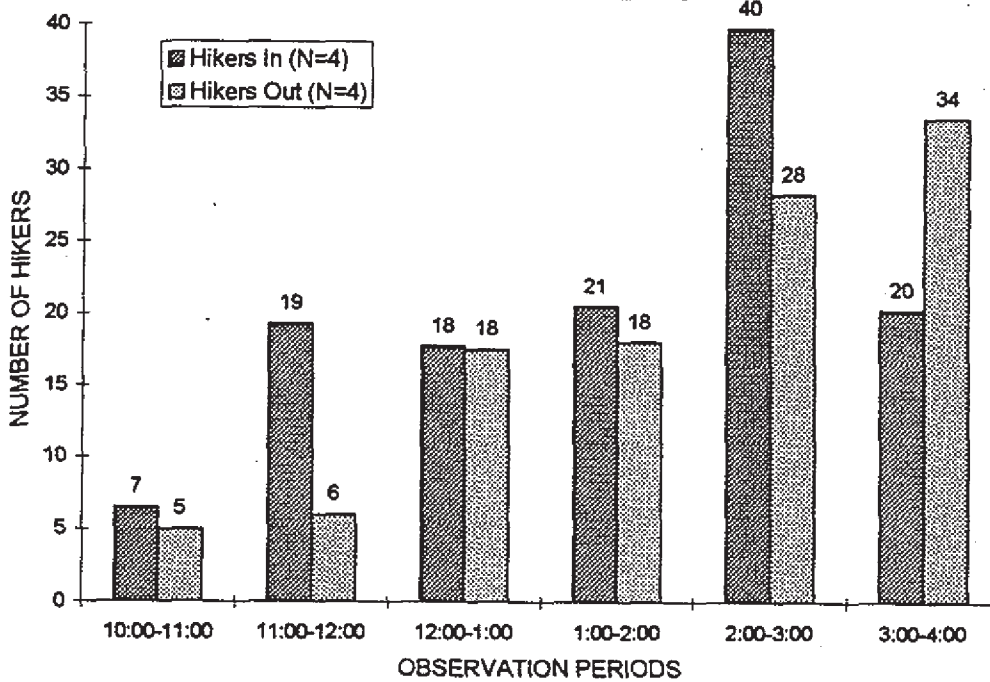
HIKERS ENTERING AND LEAVING PARADISE UPPER WEB ON OBSERVED WEEKENDS



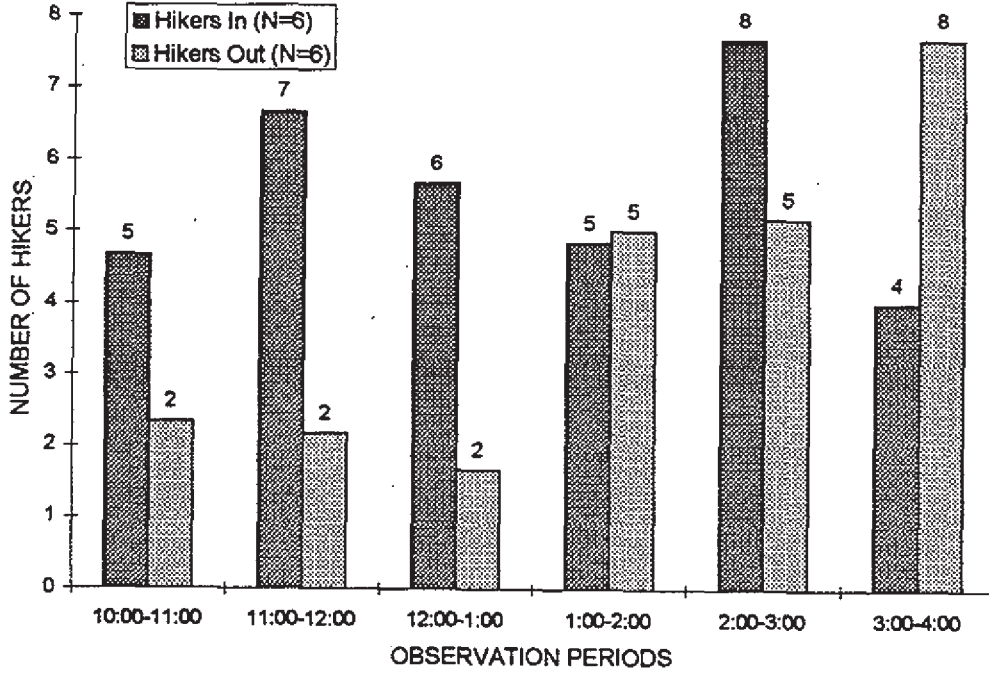
HIKERS ENTERING AND LEAVING PARADISE LOWER WEB ON OBSERVED WEEKDAYS



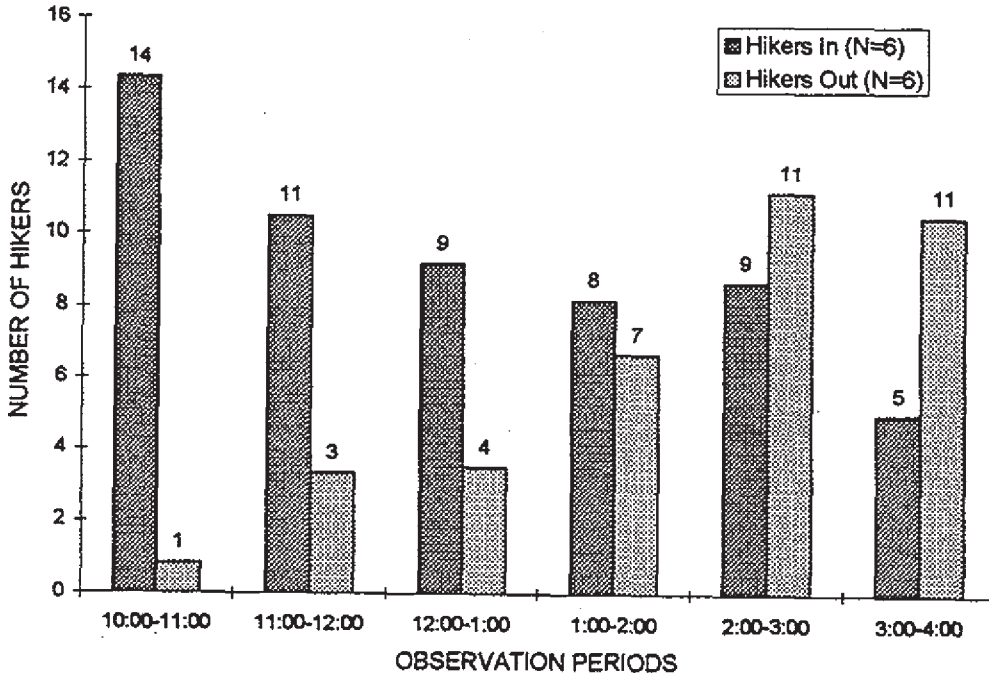
HIKERS ENTERING AND LEAVING PARADISE LOWER WEB ON OBSERVED WEEKENDS



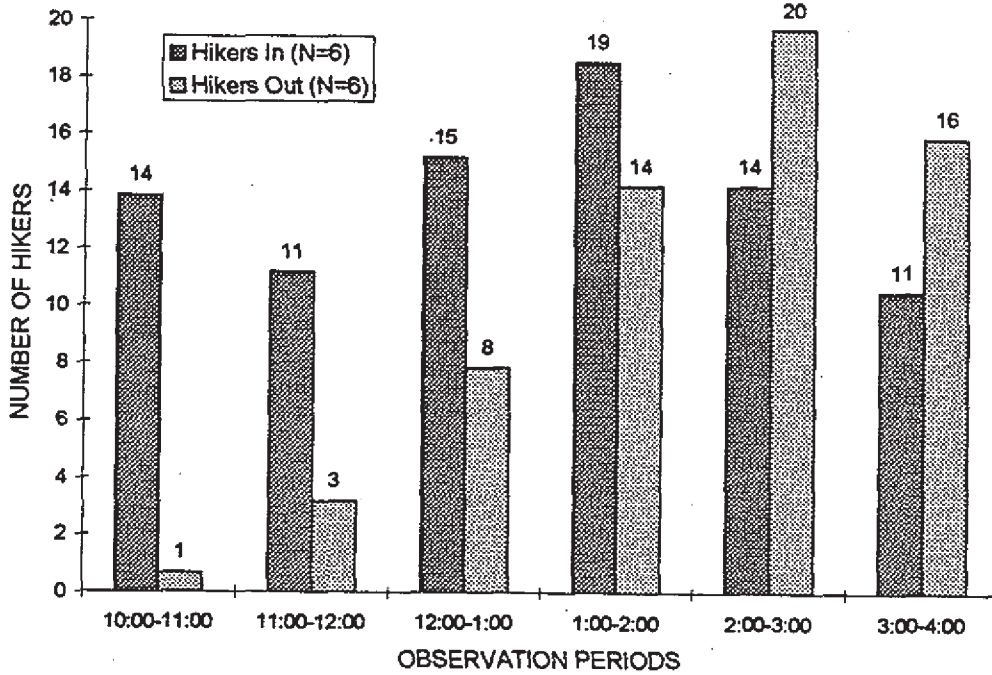
HIKERS ENTERING AND LEAVING RAMPART RIDGE LOOP ON OBSERVED WEEKDAYS



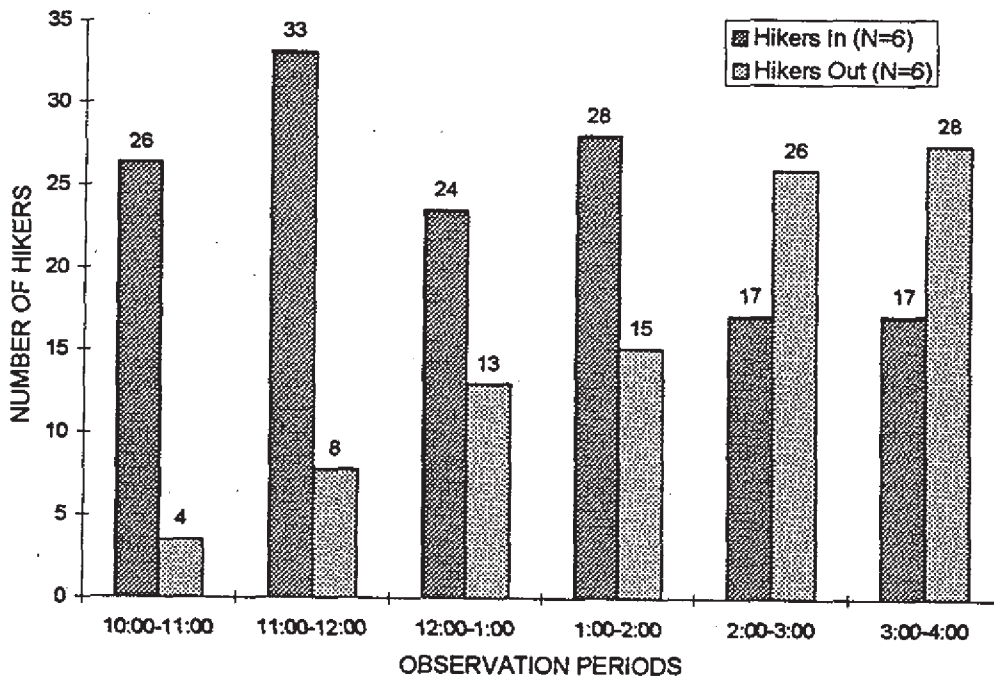
HIKERS ENTERING AND LEAVING RAMPART RIDGE LOOP ON OBSERVED WEEKENDS



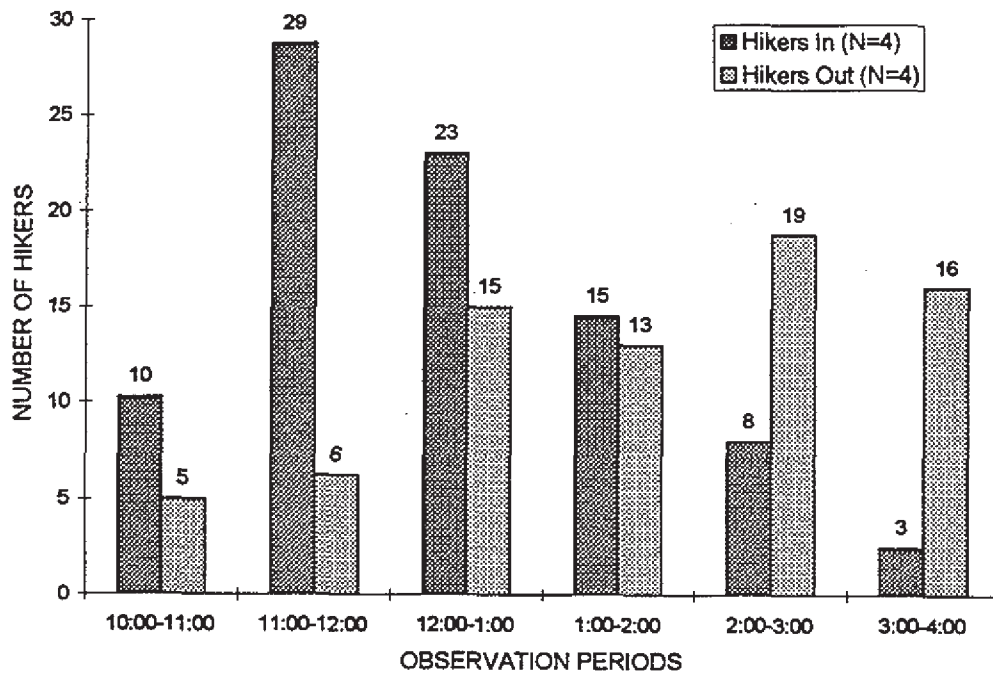
HIKERS ENTERING AND LEAVING VAN TRUMP PARK LOOP ON OBSERVED WEEKDAYS



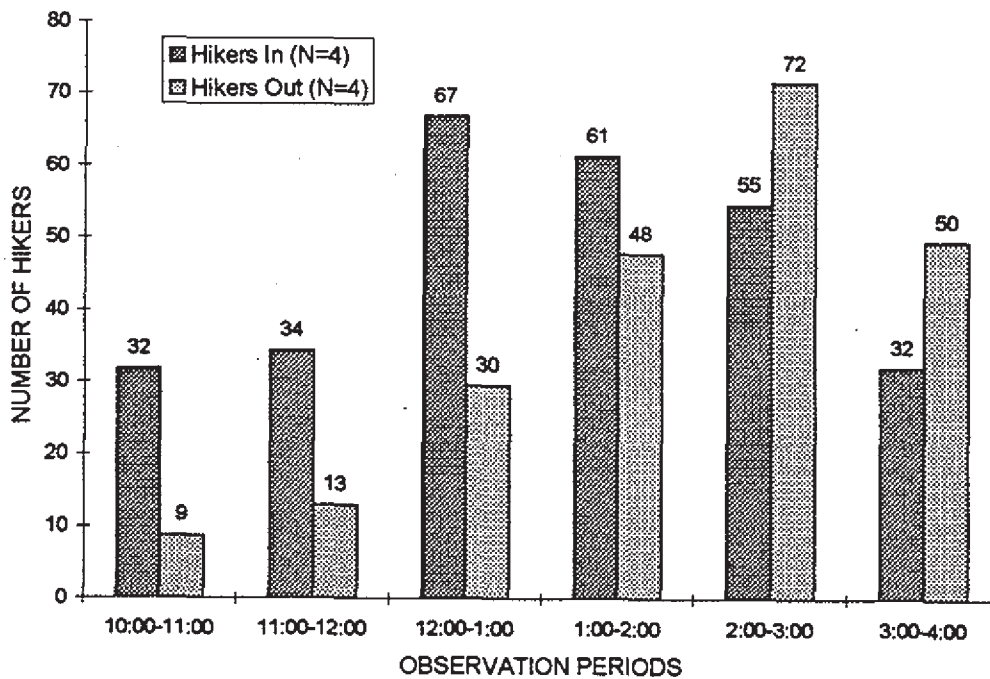
HIKERS ENTERING AND LEAVING VAN TRUMP PARK LOOP ON OBSERVED WEEKENDS



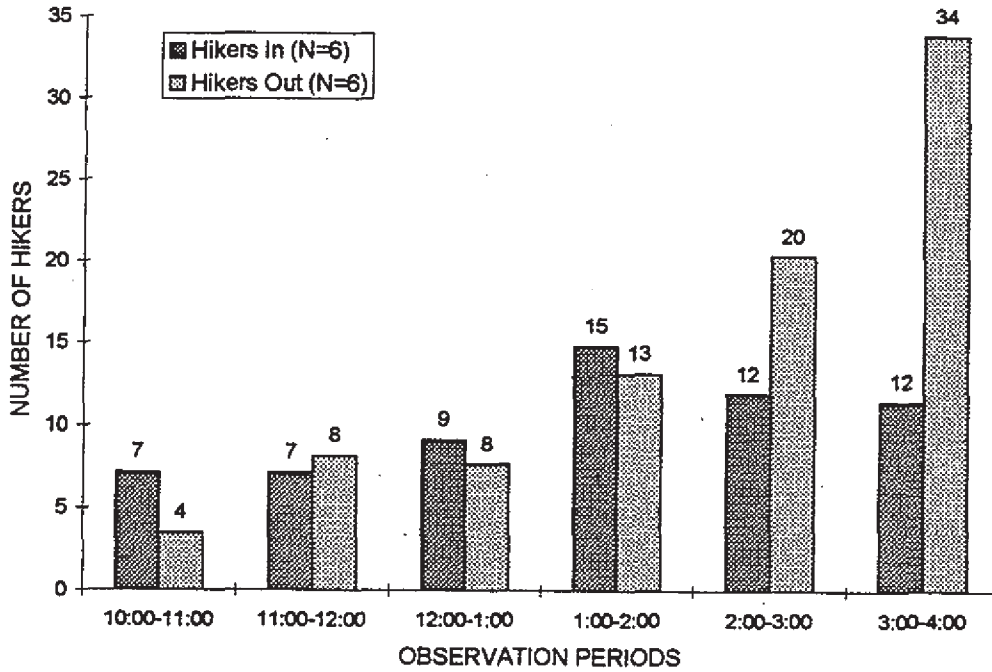
HIKERS ENTERING AND LEAVING NACHES PEAK LOOP ON OBSERVED WEEKDAYS



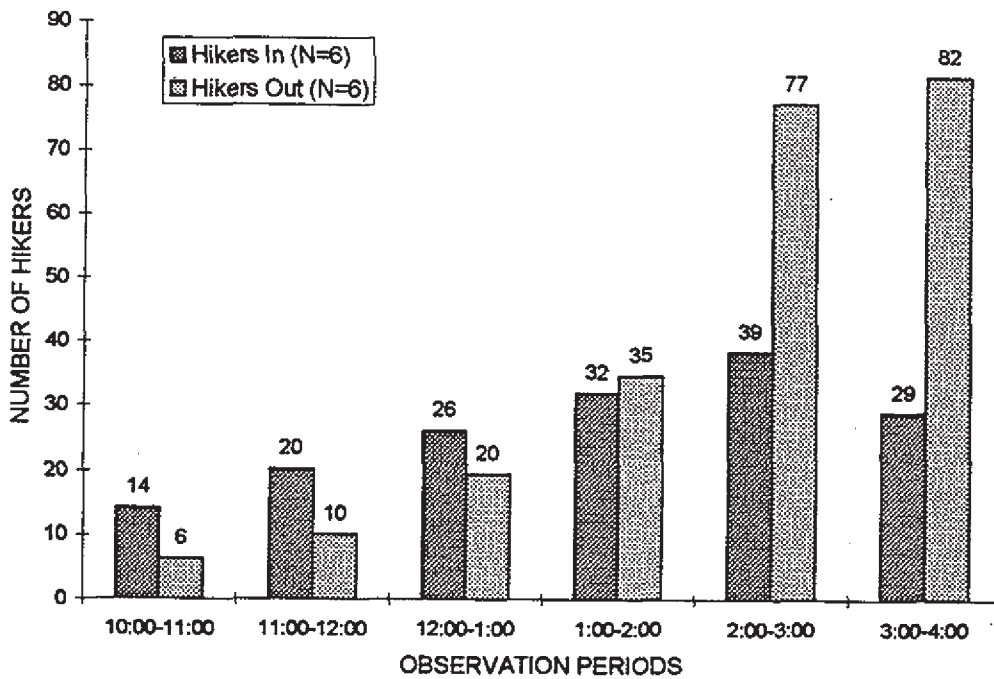
HIKERS ENTERING AND LEAVING NACHES PEAK LOOP ON OBSERVED WEEKENDS



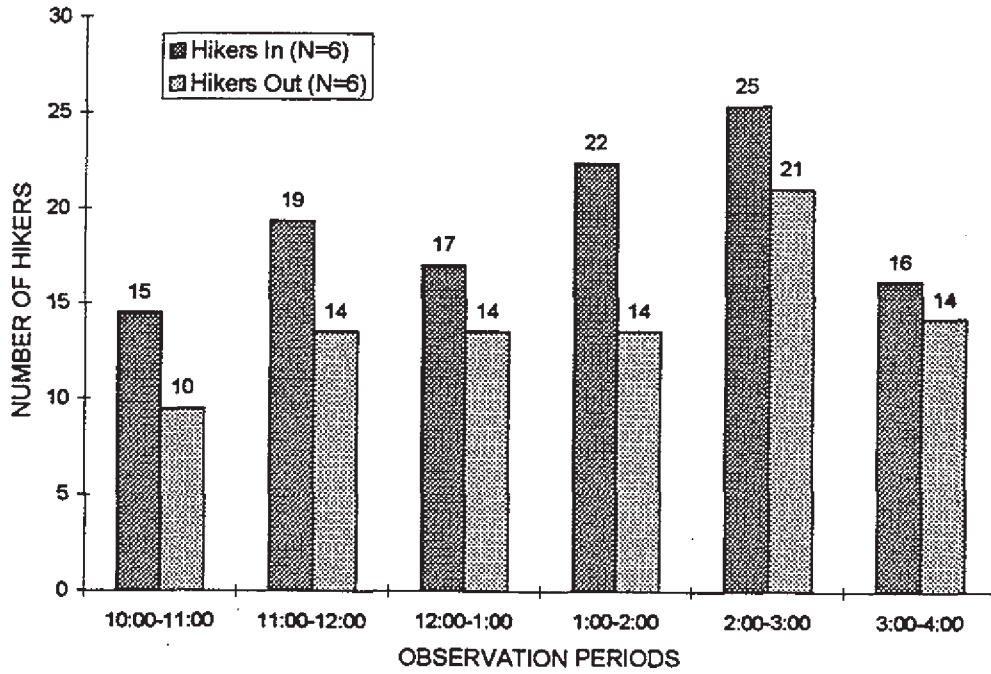
HIKERS ENTERING AND LEAVING SUNRISE RIM TRAIL LOOP ON OBSERVED WEEKDAYS



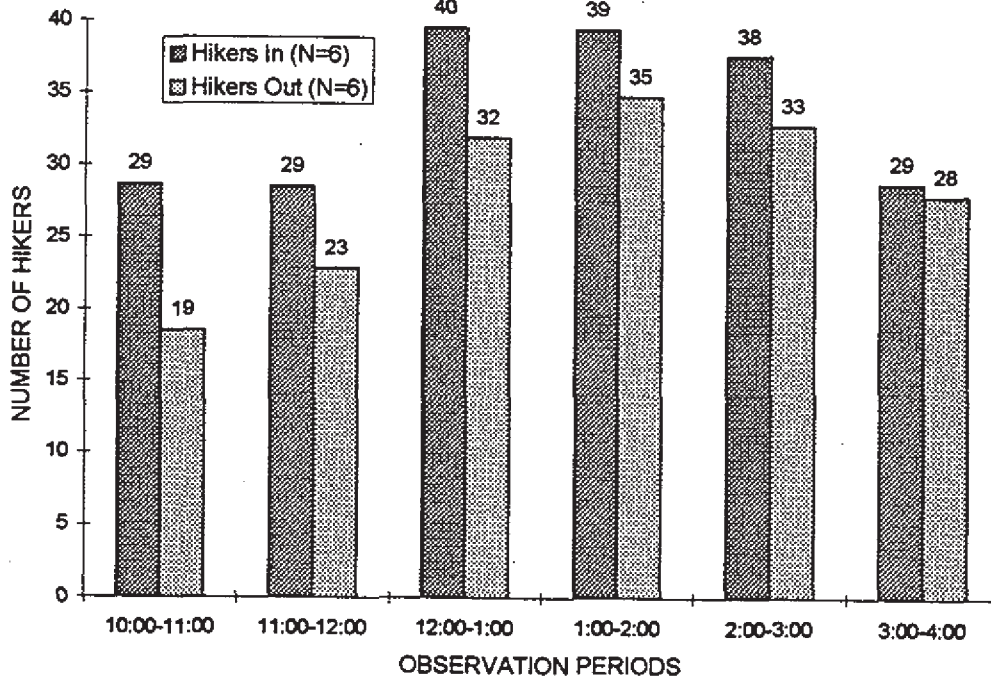
HIKERS ENTERING AND LEAVING SUNRISE RIM TRAIL LOOP ON OBSERVED WEEKENDS



HIKERS ENTERING AND LEAVING TRAIL OF SHADOWS LOOP ON OBSERVED WEEKDAYS



HIKERS ENTERING AND LEAVING TRAIL OF SHADOWS LOOP ON OBSERVED WEEKENDS



Data collected: Parking Lots.

The visitor use data for parking lots combined across all survey periods are presented in the figures below. Each site is described by two figures, one showing the average pattern of weekday use and one showing weekend use. Each figure shows the average number of vehicles that were counted in the parking lot at each time listed. Note that these data are based on "snapshot" counts rather than cumulative counts of total cars entering the parking lot.

Table 8.3 shows the parking lot names as well as the codes used to identify them in the database. It also serves as a table of contents useful in finding specific figures presenting summarized visitor use data.

Interpreting Summary Data Figures for Parking Lots

In each of the following figures, data are represented by 7 groups of 2 bars. Each bar represents the average snapshot count of the number of vehicles in a given parking lot at a specified time. Labels are provided on the axes and in the legend to define exactly the type of day and the hour that is represented.

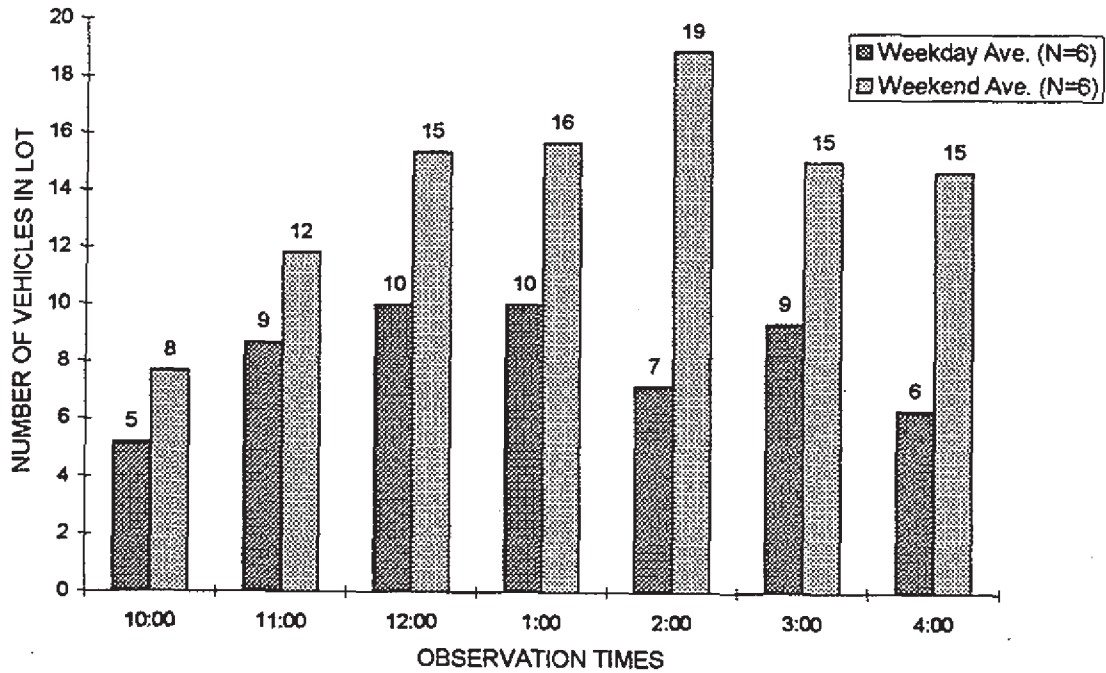
If I wished to know the average number of vehicles found in the Longmire Parking Lot at 11:00 on weekends I would first use Table 8.3 to find the page where the Longmire Parking Lot chart is displayed (in this case, page 374). I would then turn to page 374, look at the chart legend and see that the lighter gray bar represents the average weekend count. Finally, I would move across the X-axis to the set of bars labeled "11:00", look at the light gray bar, and find that on weekends an average of 63 vehicles are found in the Longmire Parking Lot at 11:00.

Before making any further conclusions, I should note the number of observations upon which the average is based. The more observations made, the greater degree of confidence I should have in the observed number. For the Longmire Parking Lot weekend averages, the legend indicates that the $N=6$. This means that observations from 6 days were used to compute the average number of vehicles charted. This is the maximum number of observations possible given our research design. Averages based on 4 or 2 days are more likely to be inaccurate.

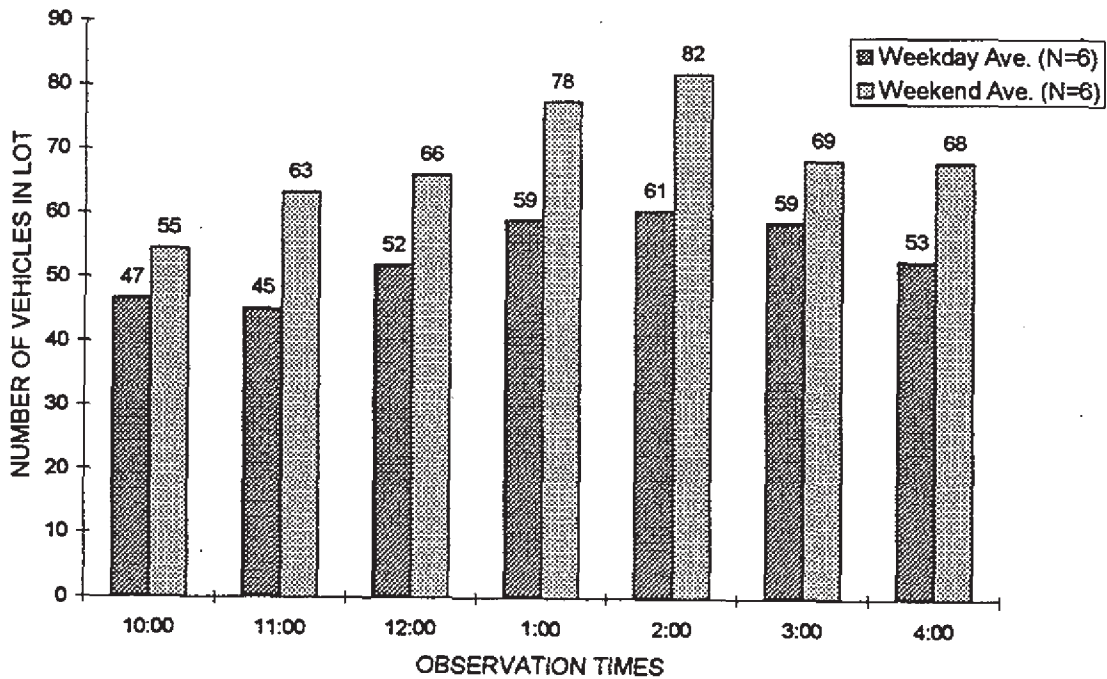
Table 8.3. Surveyed parking lots and page numbers of corresponding figures summarizing use.

201. Kautz Creek Parking Lot.....	345
202. Longmire Parking Lot.....	345
203. Narada Parking Lot.....	346
204. Jackson Visitor Center Parking Lot.....	346
205. Paradise Inn Parking Lot.....	347
206. Grove Of The Patriarchs Parking Lot.....	347
207. Sunrise Parking Lot.....	348
208. Comet Falls Parking Lot.....	348
209. Westside Road Parking Lot.....	349
210. Reflection Lake Parking Lot.....	349
211. Box Canyon Parking Lot.....	350
212. Ohanapecosh Parking Lot.....	350
213. Tipsoo Lake Parking Lot.....	351
214. Tipsoo Lake Pull-Off Parking Lot.....	351

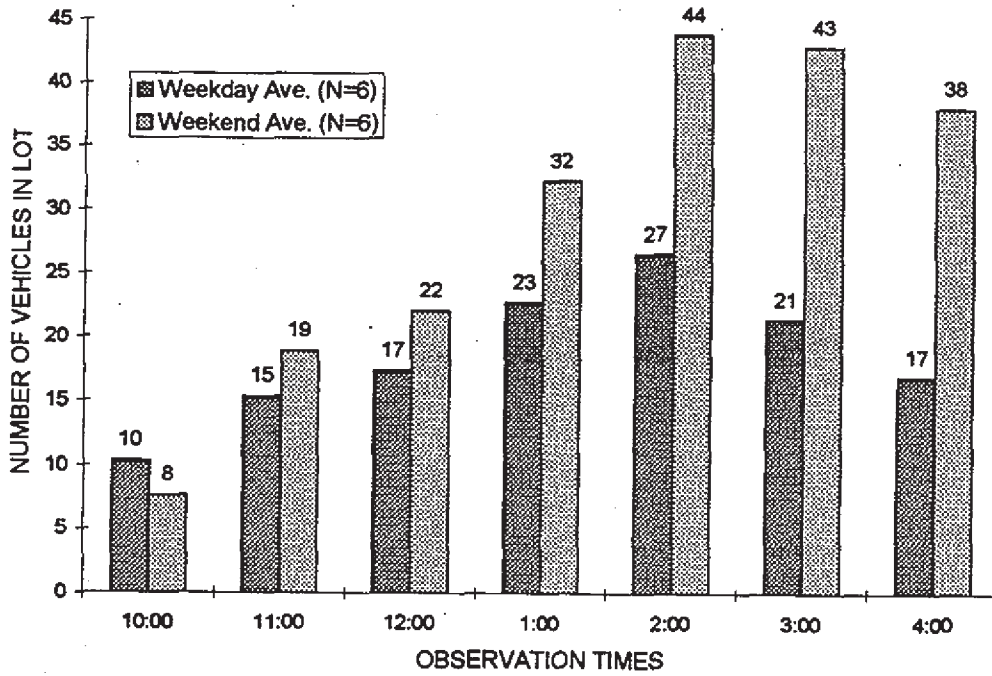
VEHICLES IN KAUTZ CREEK PARKING LOT (SITE 201) ON OBSERVED WEEKDAYS AND WEEKENDS



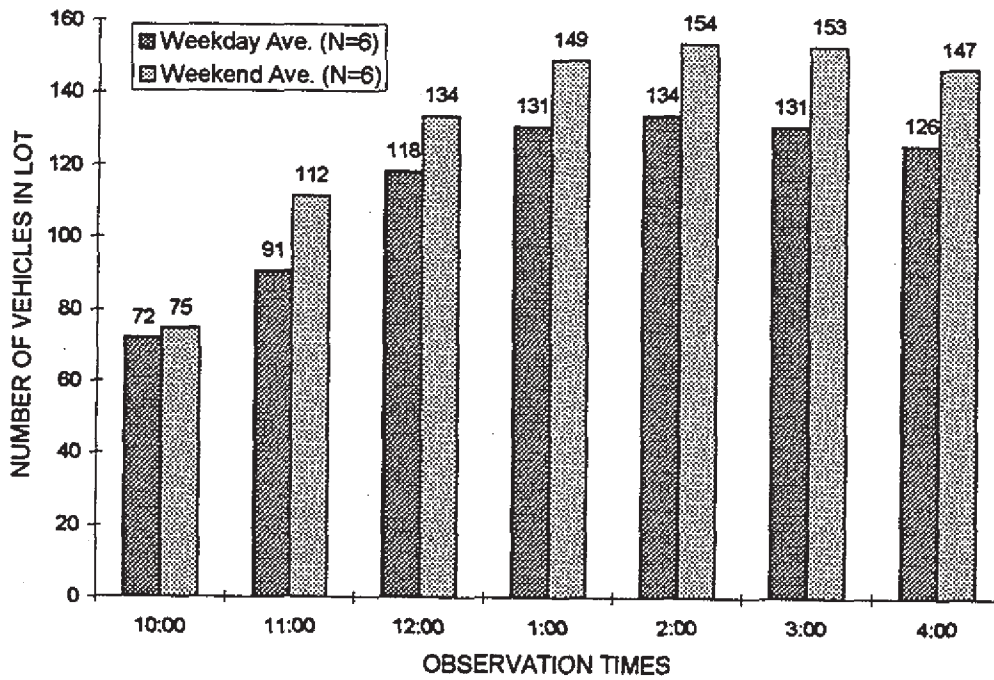
VEHICLES IN LONGMIRE PARKING LOT (SITE 202) ON OBSERVED WEEKDAYS AND WEEKENDS



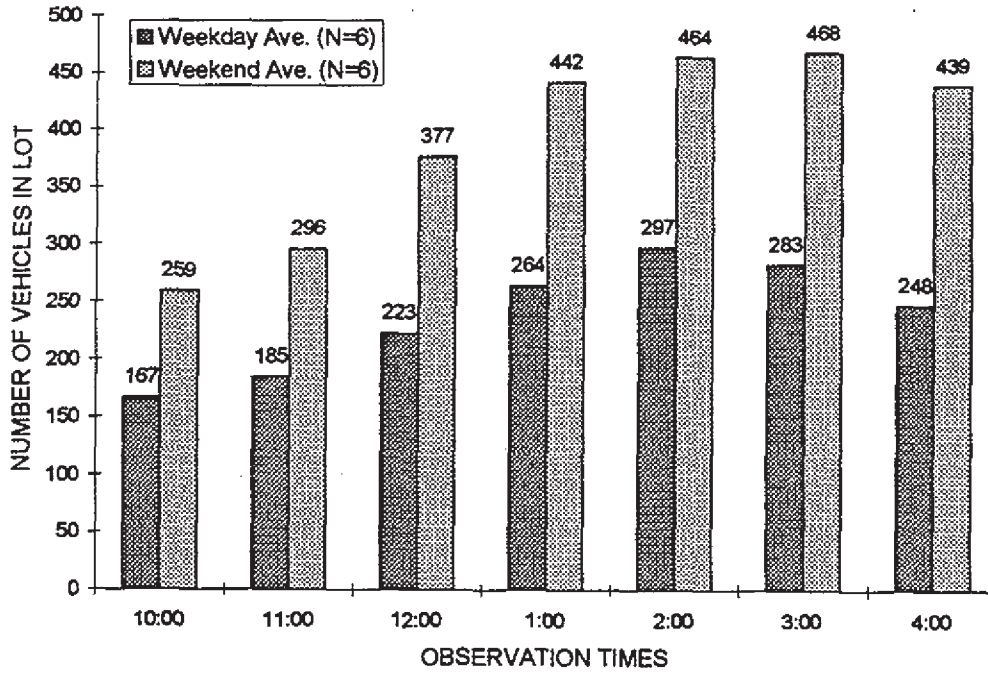
VEHICLES IN NARADA FALLS PARKING LOT (SITE 203) ON OBSERVED WEEKDAYS AND WEEKENDS



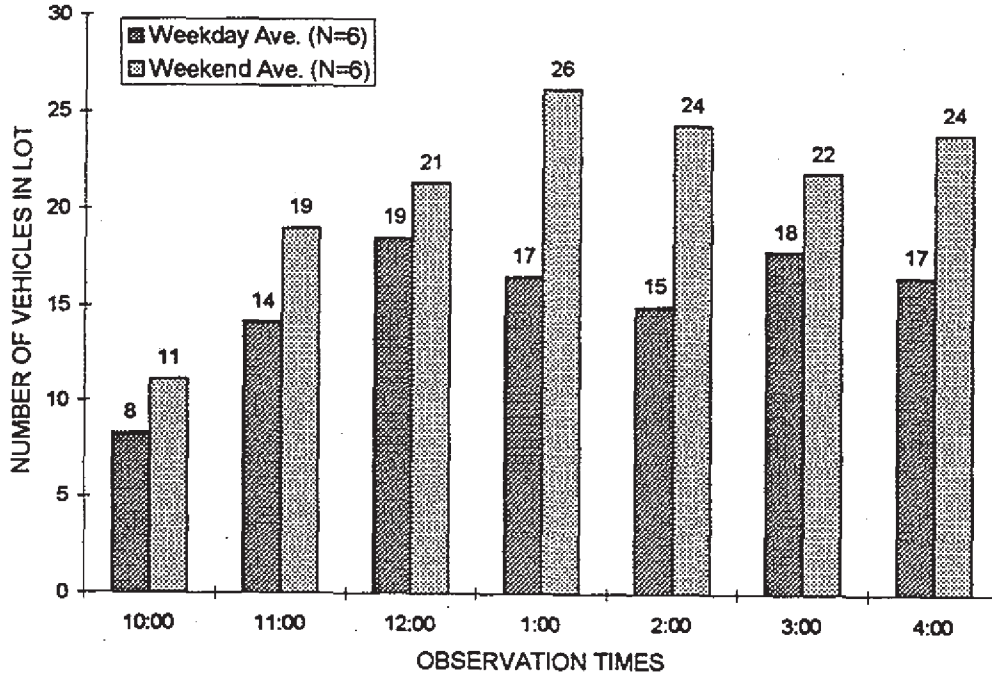
VEHICLES IN JACKSON VISITOR CENTER PARKING LOT (SITE 204) ON OBSERVED WEEKDAYS AND WEEKENDS



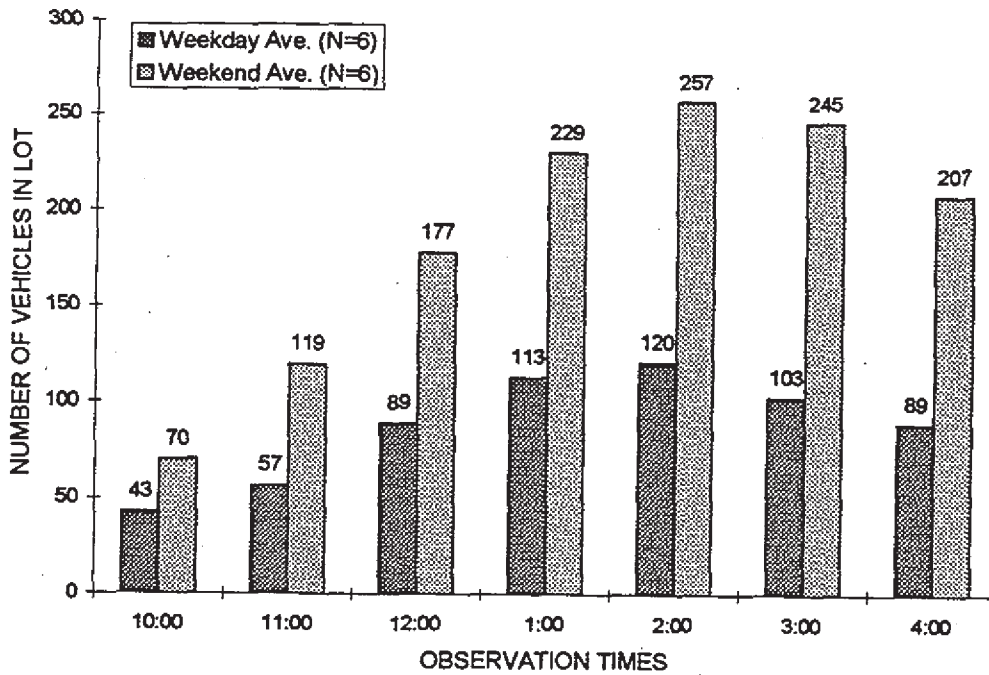
**VEHICLES IN PARADISE INN PARKING LOT (SITE 205) ON
OBSERVED WEEKDAYS AND WEEKENDS**



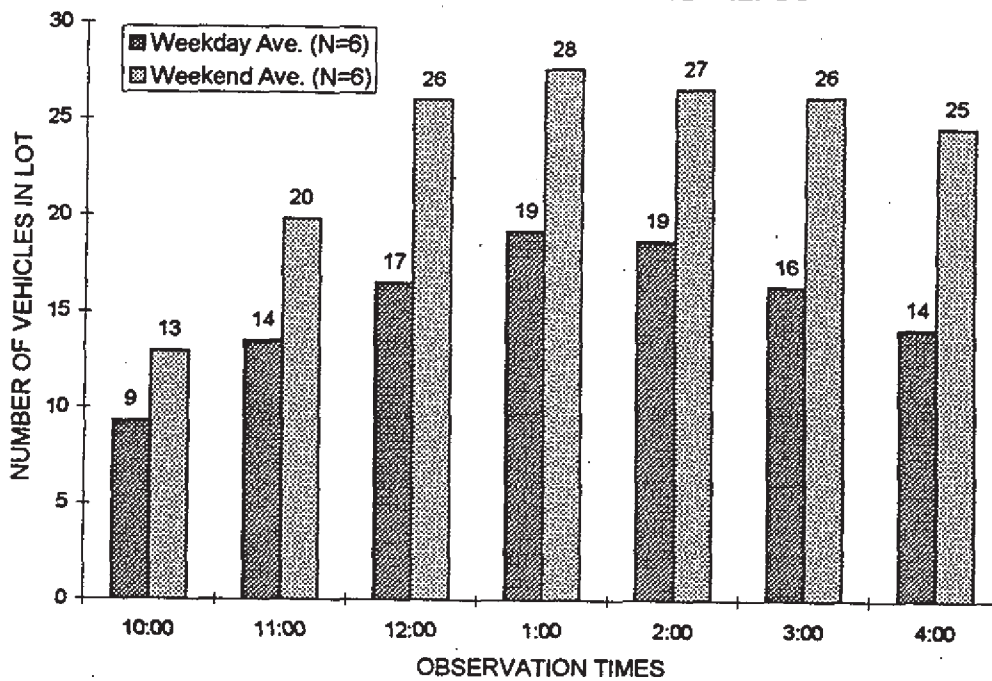
**VEHICLES IN GROVE OF PATRIARCHS PARKING LOT (SITE 206) ON
OBSERVED WEEKDAYS AND WEEKENDS**



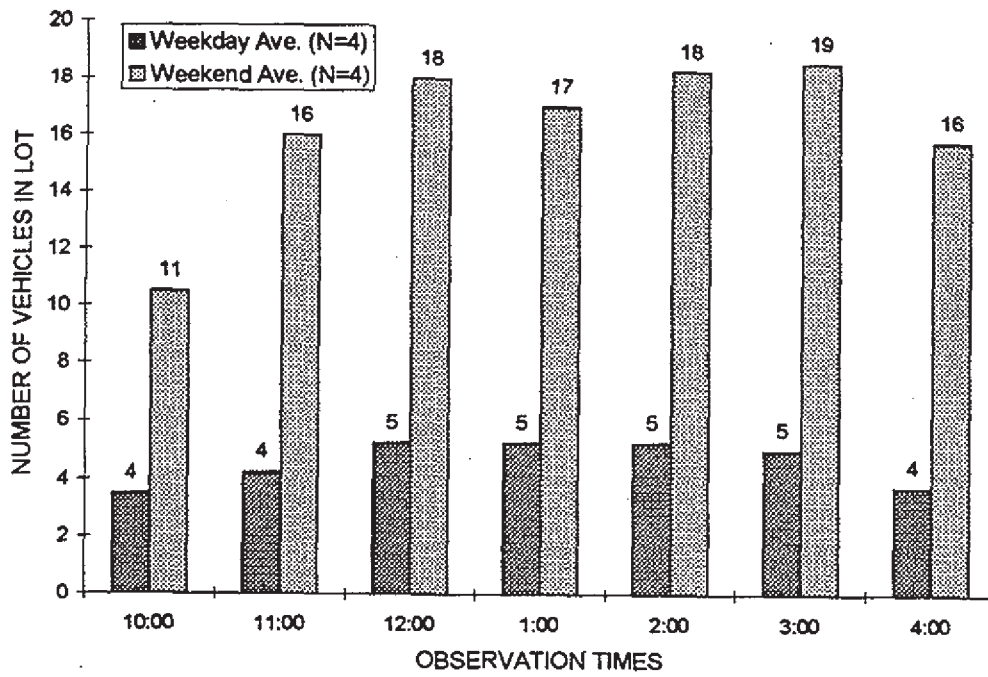
VEHICLES IN SUNRISE PARKING LOT (SITE 207) ON OBSERVED WEEKDAYS AND WEEKENDS



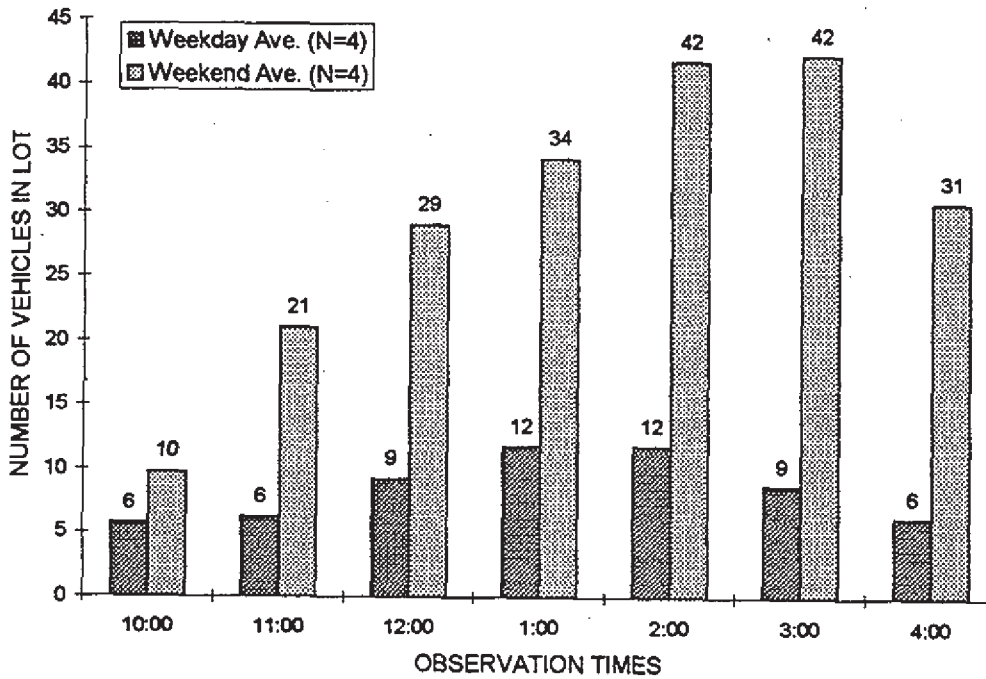
VEHICLES IN COMET FALLS PARKING LOT (SITE 208) ON OBSERVED WEEKDAYS AND WEEKENDS



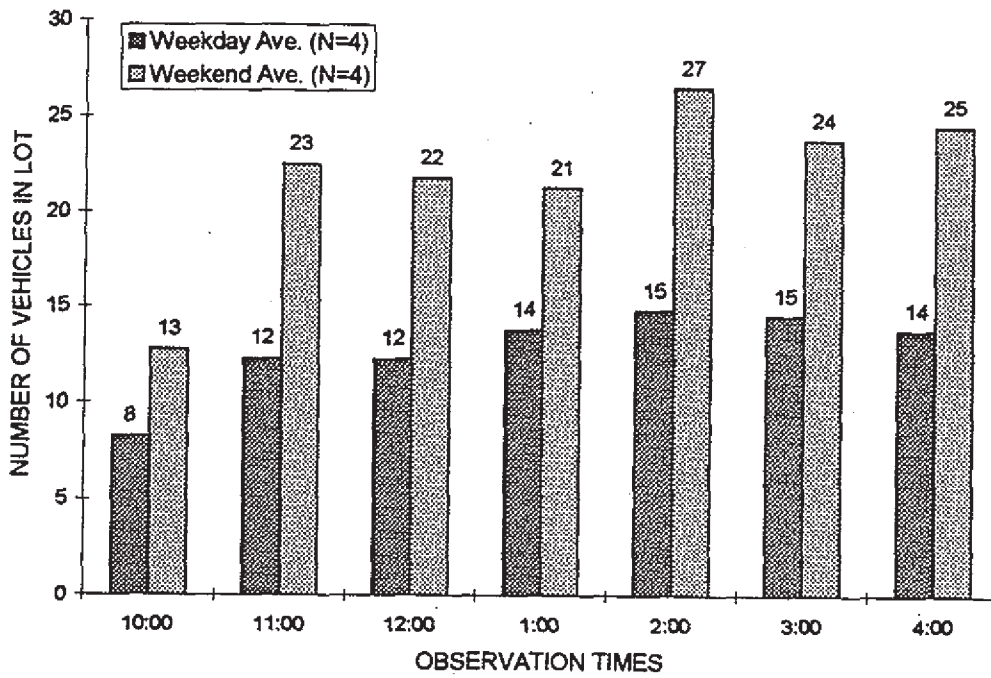
VEHICLES IN WESTSIDE ROAD PARKING LOT (SITE 209) ON OBSERVED WEEKDAYS AND WEEKENDS



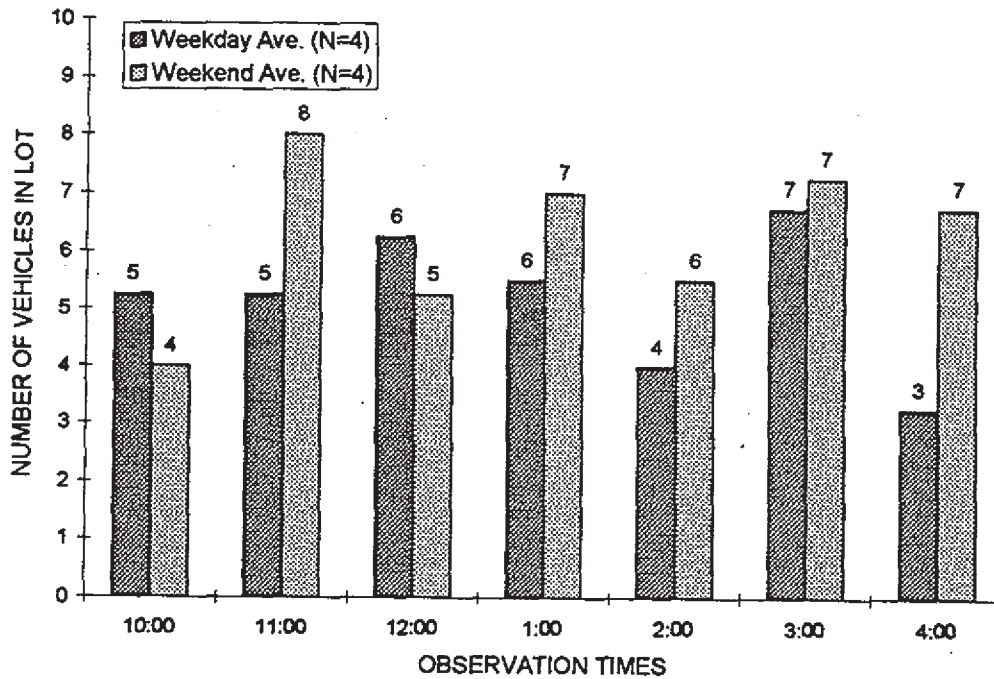
VEHICLES IN REFLECTION LAKE PARKING LOT (SITE 210) ON OBSERVED WEEKDAYS AND WEEKENDS



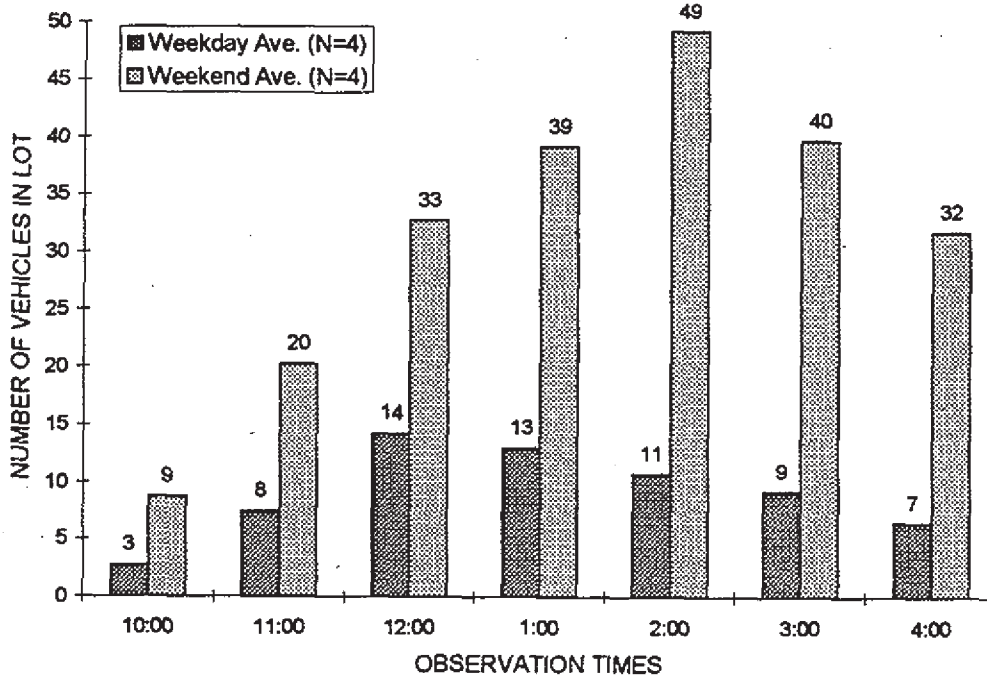
VEHICLES IN BOX CANYON PARKING LOT (SITE 211) ON OBSERVED WEEKDAYS AND WEEKENDS



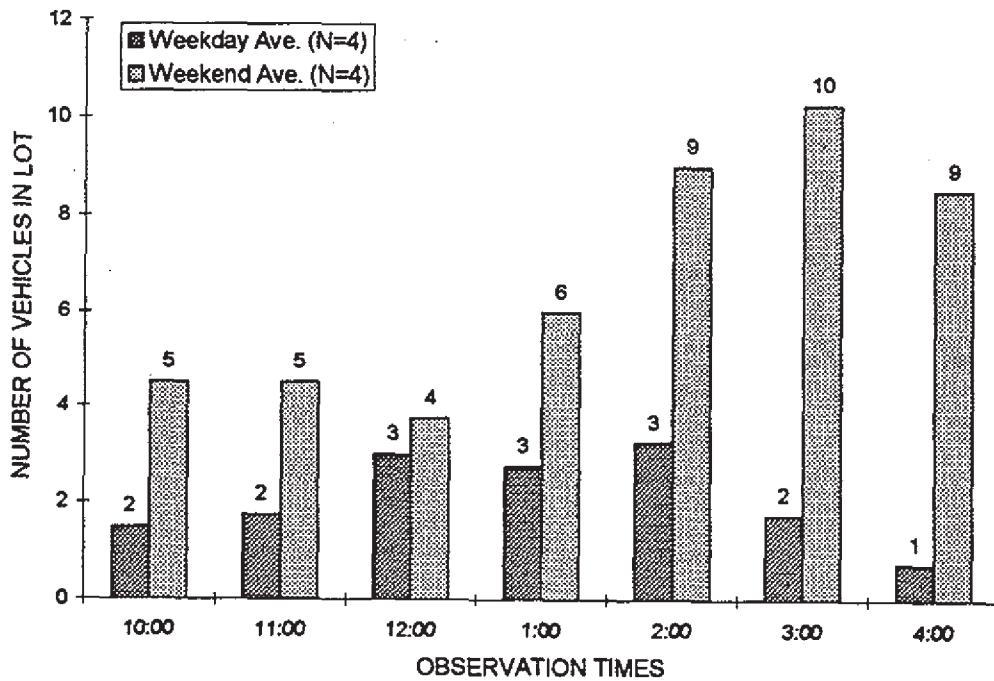
VEHICLES IN OHANAPECOSH PARKING LOT (SITE 212) ON OBSERVED WEEKDAYS AND WEEKENDS



VEHICLES IN TIPSOO LAKE PARKING LOT (SITE 213) ON OBSERVED WEEKDAYS AND WEEKENDS



VEHICLES IN TIPSOO LAKE PULL-OFF AREA (SITE 214) ON OBSERVED WEEKDAYS AND WEEKENDS



Data collected: Facilities.

The visitor use data for facilities combined across all survey periods are presented in the figures below. Each site is described by two figures, one showing the average pattern of weekday use and one showing weekend use. Each figure shows the average number of visitors that were counted in the facility at each time listed. Several of the sites presented below do not readily fall into the category of facilities. Nonetheless, their data are presented here because counts at those sites were made using the "snapshot" technique developed for facilities.

Table 8.4 shows the facility names as well as the codes used to identify them in the database. It also serves as a table of contents useful in finding specific figures presenting summarized visitor use data.

Interpreting Summary Data Figures for Facilities

In each of the following figures, data are represented by 7 groups of 2 bars. Each bar represents the average snapshot count of the number of visitors in a given facility at a specified time. Labels are provided on the axes and in the legend to define exactly the type of day and the hour that is represented.

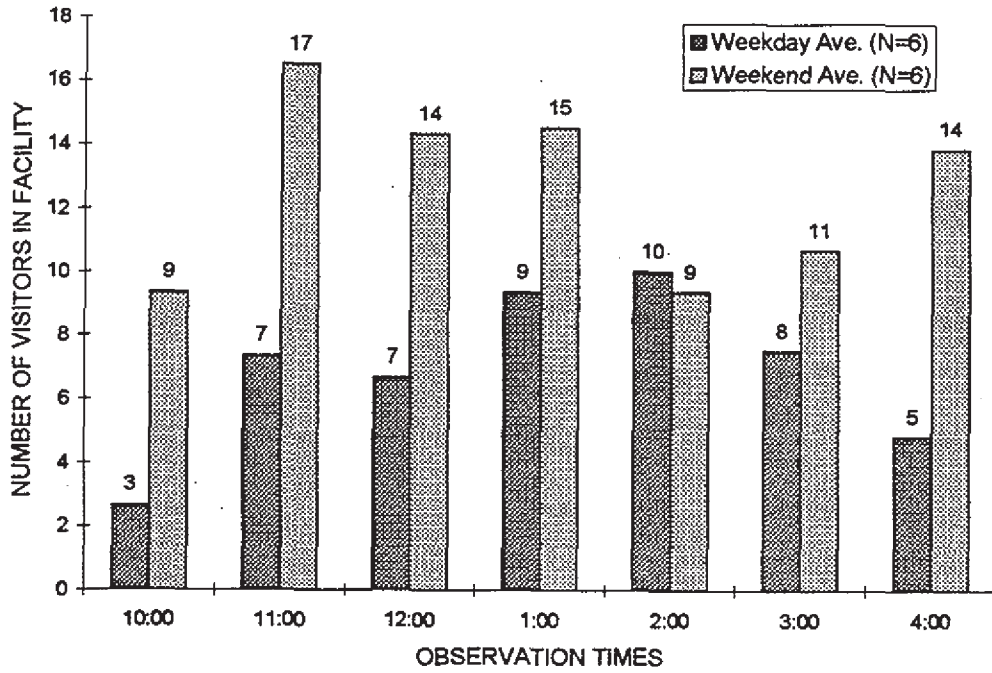
If I wished to know the average number of visitors found in the Sunrise Visitor Center at 11:00 on weekends I would first use Table 8.4 to find the page where the Sunrise Visitor Center chart is displayed (in this case, page 388). I would then turn to page 388, look at the chart legend and see that the lighter gray bar represents the average weekend count. Finally, I would move across the X-axis to the set of bars labeled "11:00", look at the light gray bar, and find that on weekends an average of 28 visitors are found in the Sunrise Visitor Center at 11:00.

Before making any further conclusions, I should note the number of observations upon which the average is based. The more observations made, the greater degree of confidence I should have in the observed number. For the Sunrise Visitor Center weekend averages, the legend indicates that the $N=6$. This means that observations from 6 days were used to compute the average number of vehicles charted. This is the maximum number of observations possible given our research design. Averages based on 4 or 2 days are more likely to be inaccurate.

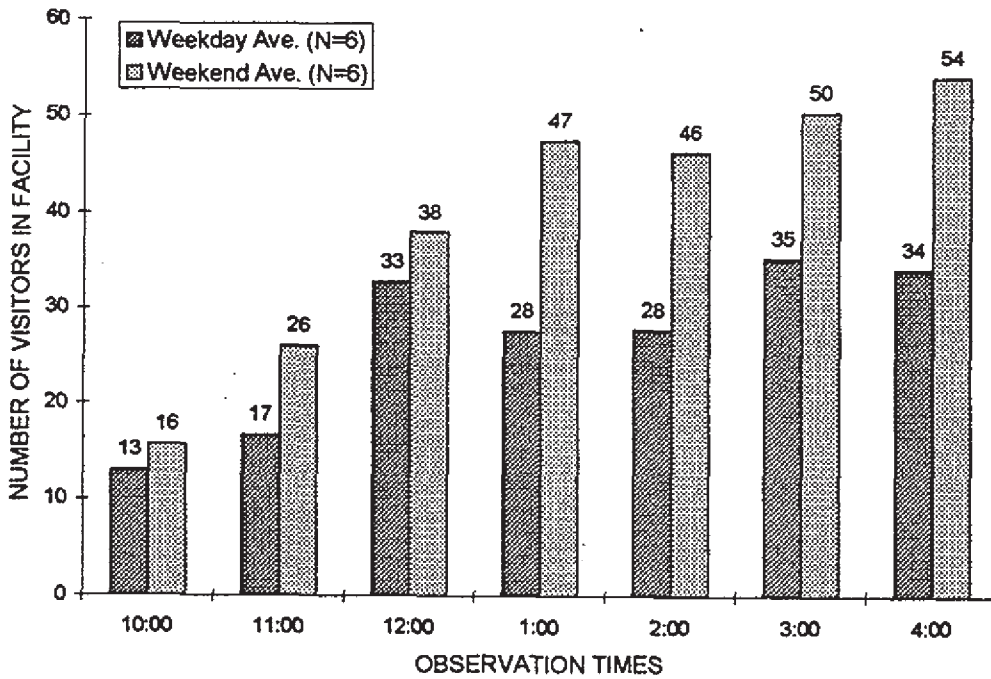
Table 8.4: Surveyed facilities and page numbers of corresponding figures summarizing use.

301. Longmire Museum.....	355
302. Jackson Visitor Center Lobby (Paradise).....	355
303. Jackson Visitor Center Eating Area (Paradise).....	356
304. Jackson Visitor Center Slide Show (Paradise)	356
305. Jackson Visitor Center Observation Deck (Paradise).....	357
306. Sunrise Visitor Center.....	357
307. Dance Floor Past Alta Vista Loop.....	358
308. Jackson Visitor Center Exhibit Rooms.....	358
309. Ohanapecosh Visitor Center.....	359

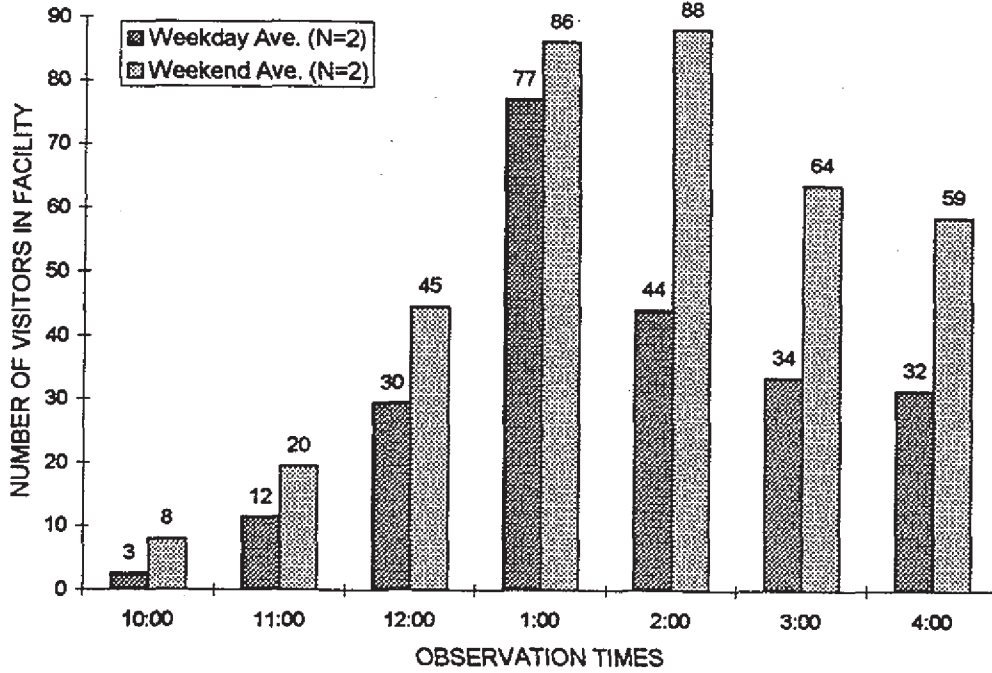
VISITORS IN LONGMIRE MUSEUM (SITE 301) ON OBSERVED WEEKDAYS AND WEEKENDS



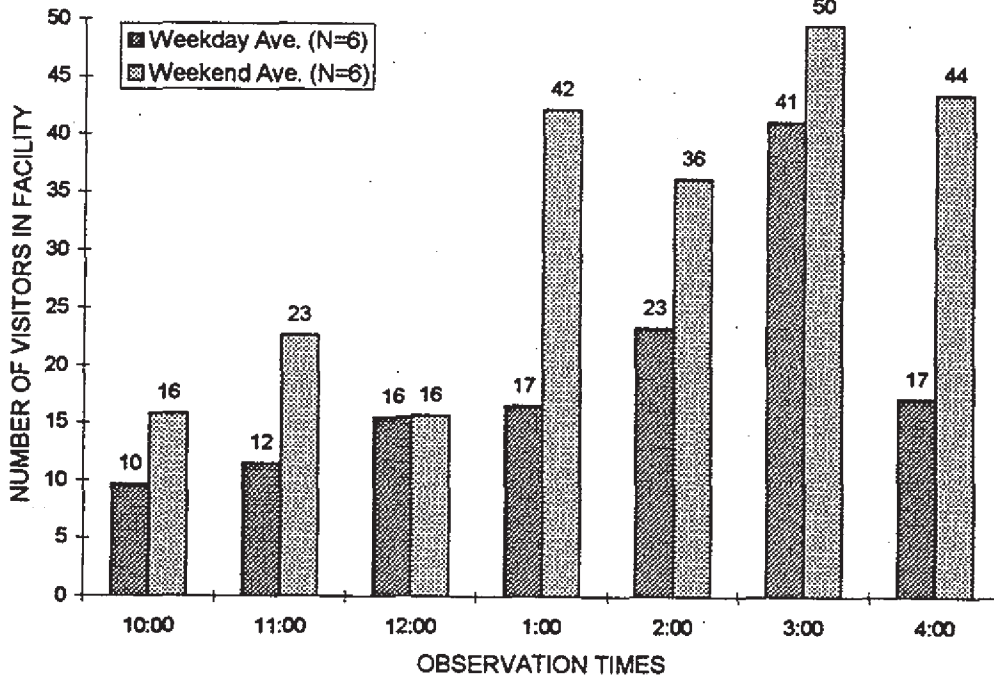
VISITORS IN JACKSON VISITOR CENTER LOBBY (SITE 302) ON OBSERVED WEEKDAYS AND WEEKENDS



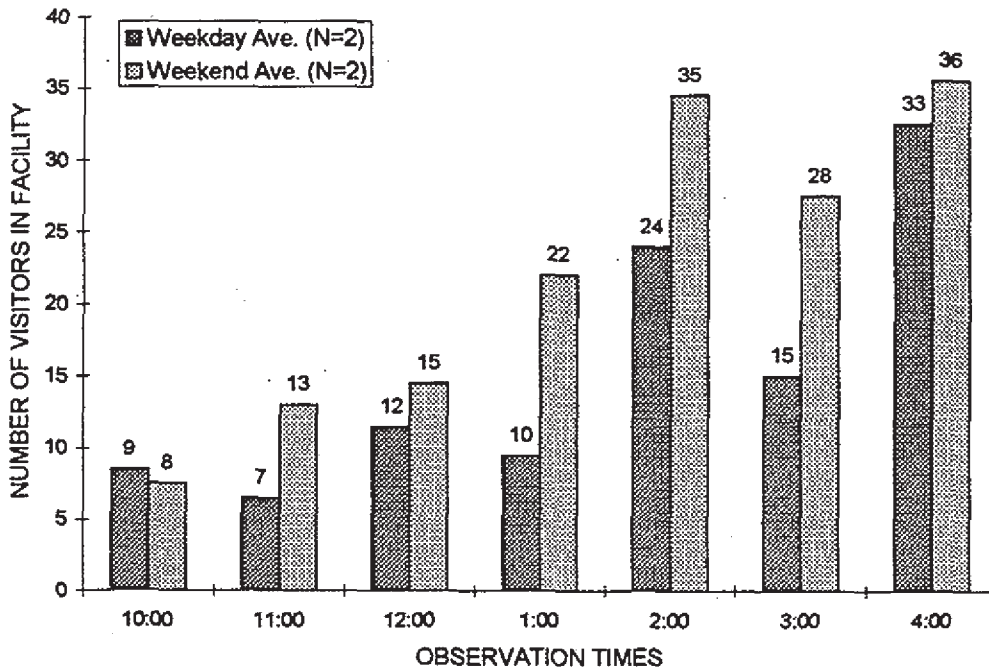
**VISITORS IN JACKSON VISITOR CENTER EATING AREA (SITE 303)
ON OBSERVED WEEKDAYS AND WEEKENDS**



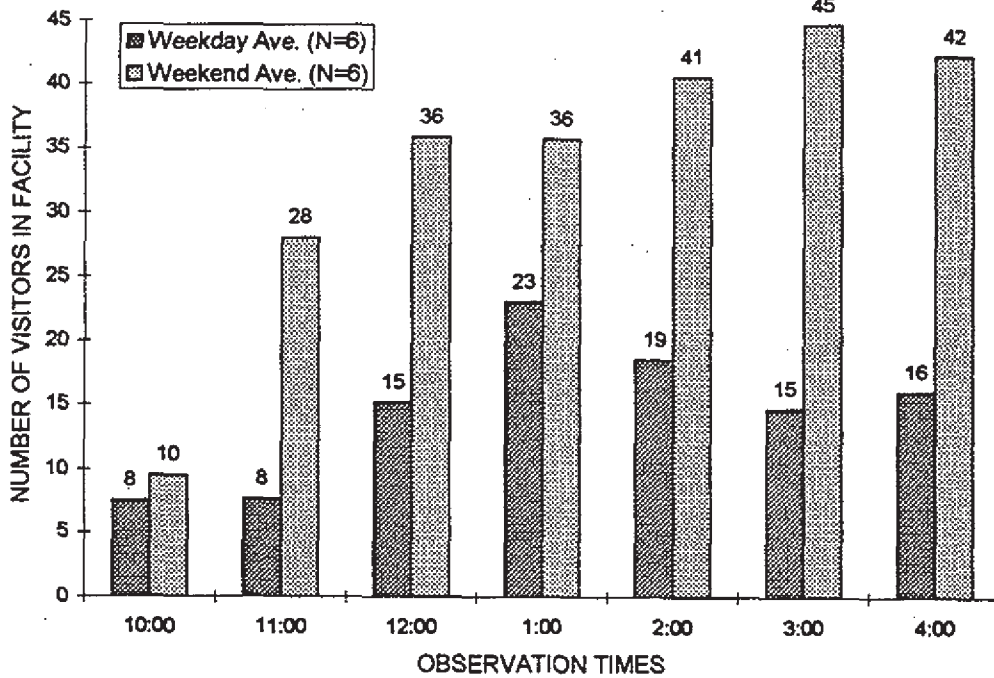
**VISITORS IN JACKSON VISITOR CENTER SLIDE SHOW (SITE 304) ON
OBSERVED WEEKDAYS AND WEEKENDS**



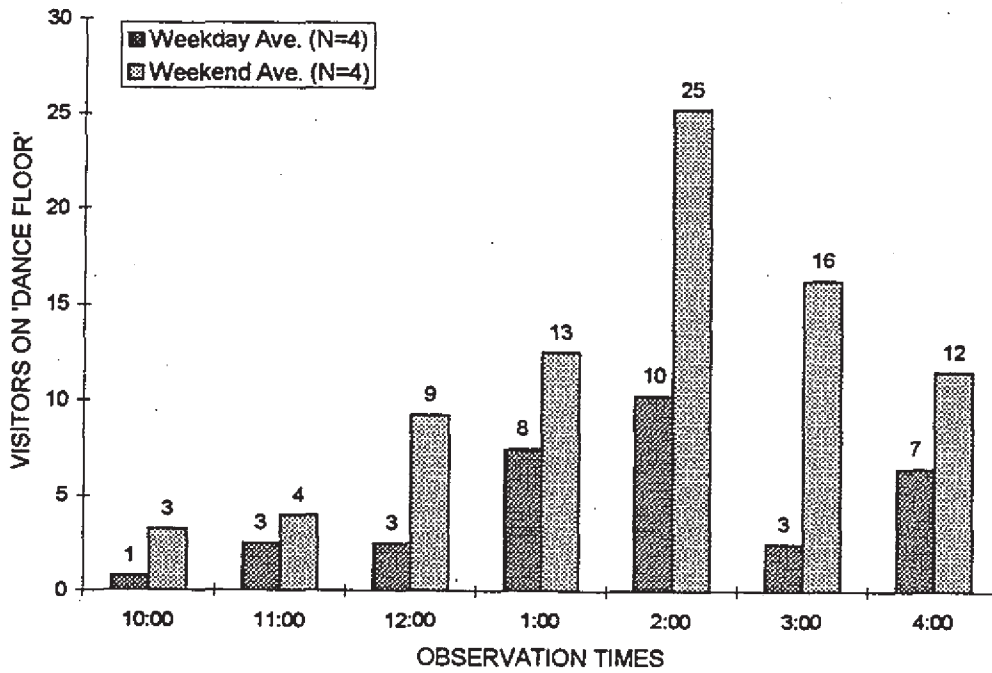
**VISITORS IN JACKSON VISITOR CENTER OBSERVATION DECK
(SITE 305) ON OBSERVED WEEKDAYS AND WEEKENDS**



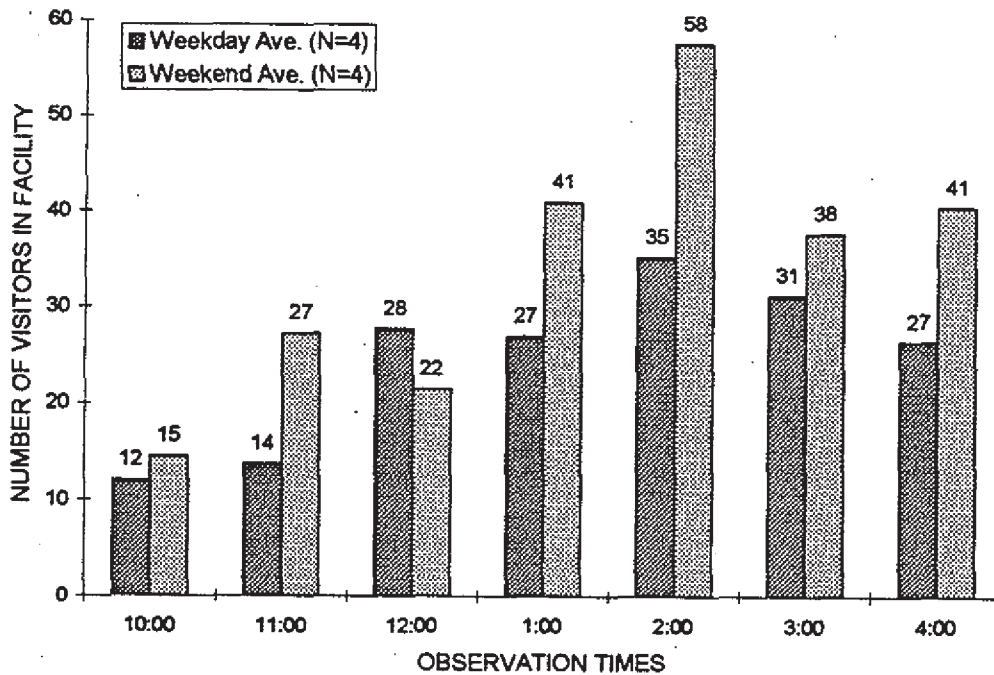
**VISITORS IN SUNRISE VISITOR CENTER (SITE 306) ON OBSERVED
WEEKDAYS AND WEEKENDS**



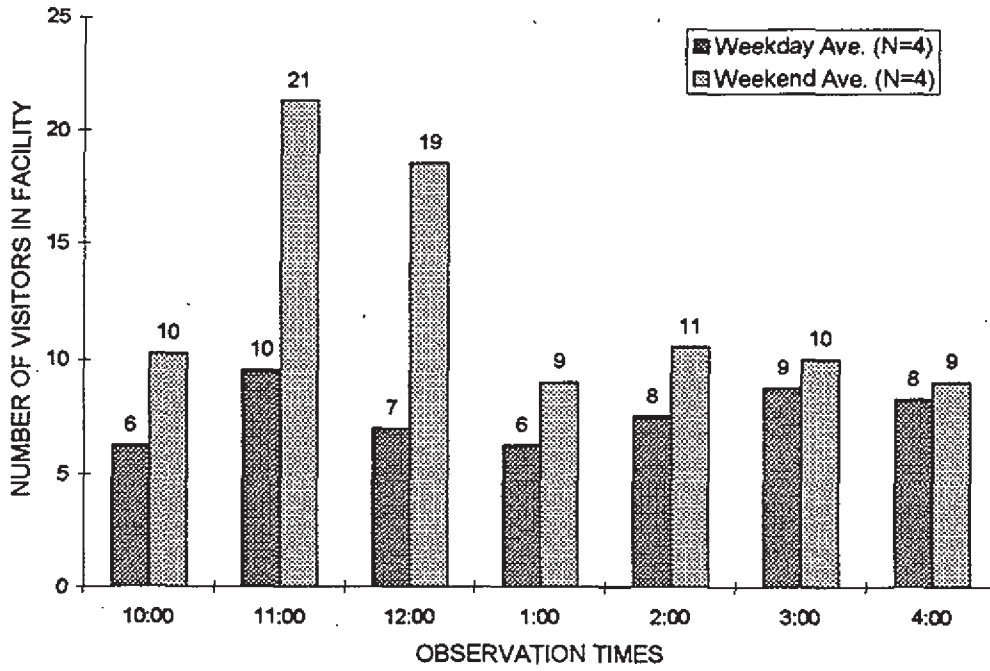
VISITORS ON 'DANCE FLOOR' (SKYLINE TRAIL: SITE 307) ON OBSERVED WEEKDAYS AND WEEKENDS



VISITORS IN JVC EXHIBIT ROOMS (SITE 308) ON OBSERVED WEEKDAYS AND WEEKENDS



**VISITORS IN OHANAPECOSH VISITOR CENTER (SITE 309) ON
OBSERVED WEEKDAYS AND WEEKENDS**



IX. USE ESTIMATES BASED ON WEATHER, DAY OF WEEK, AND PARKING LOT CAPACITY¹

Introduction.

Given the emphasis of the GMP team on describing park use it was deemed important to extrapolate from the data observed in the VDS and to predict visitor use of park resources under various conditions. The general goal of this section is to present such estimates based on weather, day of the week (weekend vs. weekday), and parking lot capacity. Also described in this section are the methods and statistical procedures used to produce those estimates.

Specifically, the goals of this section include:

1. Estimating the number of people currently using trails.
2. Estimating the number of people currently using visitor facilities.
3. Estimating the number of vehicles currently being parked in parking lots.
4. Estimating the number of people that would use trails if parking lots were allowed to fill only to design capacity and no overflow parking was allowed.

Observations by MORA staff, as well as past social data collected in the park make it clear that most park visitors are day-users whose likelihood of visiting the park is greatly affected by the weather and the day of the week. Accordingly, we hypothesize that weather will have a positive effect on the number of vehicles to the park. More specifically, nice weather will bring more vehicles to the park than poor weather. Second, we hypothesize that day of the week will also have a positive effect on the number of vehicles. That is, we hypothesize that weekends will see more vehicles entering the park than weekdays. Finally, we hypothesize that the number of people using trails, facilities, and parking lots in MORA will be positively related to the number of vehicles entering the park (see Figure 9.1).

¹ This section written by Mark E. Vande Kamp and Yih-Jin Young

Model of Visitor Use at MORA

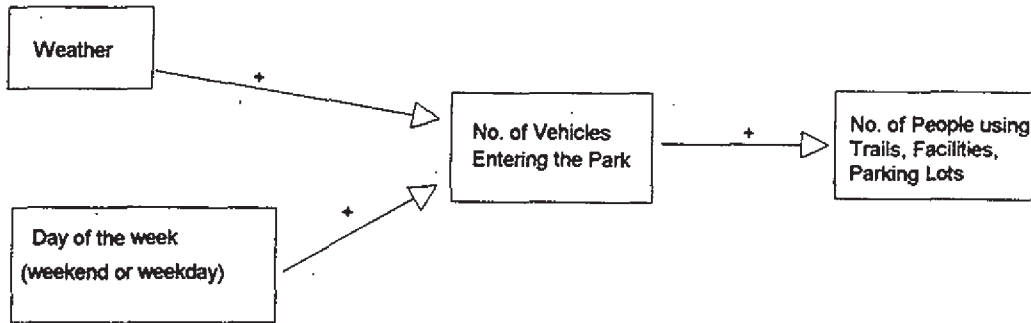


Figure 9.1. Model used to produce estimates of use.

Procedures Used to Generate Use Estimates

After establishing our model of visitor use, two major steps remained in generating the use estimates that constituted the ultimate purpose of these analyses. The first was to develop a statistical model predicting the number of vehicles entering the park and use it to produce vehicle entry estimates for a set of weather/weekend conditions, and the second was to develop statistical models that predict use at each site based on those vehicle entry estimates.

The method we chose to create the statistical models used in this report was regression analysis. Regression is a method commonly used to create formulas that predict the value of one variable based on what we know about one or more other variables. For example, we used regression to create a formula that used total vehicle entry counts to predict the peak number of vehicles that would be found in the Longmire parking lot. The process required two steps: First, vehicle entry data and parking lot counts were collected for past days at MORA. Second, a regression analysis was used to specify a formula called a regression equation that defined the relationship between the predicted variable (peak parking lot count) and the predictor variable (total vehicle entry counts). Regression equations are always specified in the form $Y = b(X) + C$ where Y is the predicted variable, X is the predictor variable, b is the regression coefficient, and C is the constant. The equation can be thought of (and is often referred to) as a model of the relationship between the predicted and predictor variables. In many of the tables of estimates that follow in this section, the regression coefficients and constants used to generate those estimates are listed.

Predictions based on regression models utilize consistent relationships between the independent and dependent variables that are present in the observed data. The ability of the model to make sound predictions rests largely on the strength of those relationships. A product of the regression analysis called R^2 is commonly used to describe the strength of the relationships between the predicted and predictor variables. R^2 ranges from 0 to 1 and is interpreted as the proportion of the observed

variability in the predicted variable that can be explained using the predictor variable(s). R^2 values are also listed in many of the tables below and should be used as a rough indicator of the confidence that should be placed in a given estimate. Estimates based on regression equations with high R^2 (greater than about .5) are more reliable than those with lower R^2 . When R^2 is less than about .2, the estimated value of the predicted variable will be very little different for high and low values of the predictor variable. In other words, the predictor variable in such cases is only weakly related to the predicted variable and therefore does little to help us more accurately estimate it.

Although the above discussion of regression analysis may seem confusing to readers unfamiliar with statistics, the essential point is that R^2 is one of several indicators that can be used to assess the confidence that can be placed in a given estimate. R^2 varies between 0 and 1, with values greater than about .5 indicating "good" to "excellent" estimates and those less than about .2 indicating "poor" estimates. However, it should be noted that when R^2 is small, the estimate will be very close to the average of all the observed values of the predicted variable. Thus, it will not be much more accurate than that average but it will also not be systematically biased in any way.

In statistical terminology the predicted variable is referred to as the dependent variable, and the predictor variables are referred to as independent variables. This more common terminology is used from this point through the end of the section.

Production of Vehicle Entry Estimates

For the regression models that constituted the first step toward estimating visitation at all VDS sites we used weather and day of the week to predict the number of vehicles entering the park (consistent with our conceptual model shown in Figure 1). Data were used from July and August, 1994 and 1995. We created two separate statistical models, one for total number of vehicles using the Nisqually and Stevens Canyon entrances and one for vehicles using the White River entrance.

Data Sources

The weather data were collected from various NOAA (National Oceanic and Atmosphere Administration) reports. The number of vehicles were obtained from files provided by the NPS Denver Service Center (automated vehicle counts using sensors buried on park roads).

Measures of Variables

Independent Variables

Weather:

- 1) Maximum daily temperature recorded at Seatac International airport
- 2) Maximum daily temperature recorded at Longmire
- 3) Precipitation at Longmire (coded Yes/No)
- 4) Sky conditions at Seatac International airport (coded clear/partly cloudy/cloudy-raining)

Day of the Week: one variable coded weekday/weekend. Note that July 4 was treated as a weekend day.

Dependent Variables

Number of vehicles entering the park

- 1) Combined number of vehicles entering the Nisqually and Stevens Canyon Entrances
Number of vehicles entering the White River Entrance

Regression Models

The regression model including all independent variables was produced and then independent variables that failed to show significant relationships with the dependent variable were removed. For both the Nisqually/Stevens Canyon and White River models, many of the weather variables failed to show significant relationships to the number of vehicles entering the park, with only Precipitation at Longmire and Sky condition at Seatac International airport proving to be significant predictors of vehicles. Thus, only those variables were retained in the models.

The regression equation predicting vehicle entries through the Nisqually and Stevens Canyon entrances to MORA was (Note: Each variable was coded 1 or 0 with 1 indicating 'Yes' and 0 indicating 'No'):

$$\begin{aligned} &1841 \\ &- 302 * (\text{Precip. at Longmire}) \\ &+ 1064 * (\text{Weekend}) \\ &+ 386 * (\text{Clear at Seatac}) \\ &- 155 * (\text{Cloudy at Seatac}) \end{aligned}$$

Vehicle Entries (Nisqually and Stevens Canyon)

The R^2 was .70 for the equation above, meaning that for the available data, 70 percent of the variability in vehicle entries was predicted by the weather and weekend/weekday variables included in the equation.

The regression equation predicting vehicle entries through the White River entrance to MORA was:

$$\begin{aligned}
 &723 \\
 &- 254 * (\text{Precip. at Longmire}) \\
 &+ 607 * (\text{Weekend}) \\
 &+ 150 * (\text{Clear at Seatac}) \\
 &- 79 * (\text{Cloudy at Seatac})
 \end{aligned}$$

Vehicle Entries (White River)

The R^2 was .58 for the equation above, meaning that for the available data, 58 percent of the variability in vehicle entries was predicted by the weather and weekend/weekday variables included in the equation.

After constructing each statistical model, we used it to predict the number of vehicles entering the park in the following situations:

- 1) a weekday with poor weather
- 2) a weekday with nice weather
- 3) a weekend with poor weather
- 4) a weekend with nice weather

Results

Table 9.1 shows the estimated number of vehicles entering the park at Nisqually and Stevens Canyon entrances as well as the White River Entrance under different weather and weekday/weekend conditions.

Table 9.1: Estimated Number of Vehicles Entering the Park

Conditions	Entering Nisqually and Stevens Canyon Entrance	Entering White River Entrance
a weekday with poor weather	1384	390
a weekday with nice weather	2227	873
a weekend with poor weather	2448	997
a weekend with nice weather	3291	1480

Data Sources: NOAA, Mountain Rainer National Park.

Limitations of the Data and Methods

Several factors affect the reliability of the estimates resulting from the methods used, and readers should be aware of these limitations. First, among the independent variables, we also wished to include weather data for Paradise. However, due to the havoc wreaked by the partial government shutdown and furlough of government personnel, such data were not available at the time of the analysis. In retrospect, it is unlikely that this had a large effect on the estimates. Most people who were affected by weather were more likely to be affected by the weather near their homes (i.e., at SeaTac) than by the weather at Paradise.

Second, the simple dichotomous coding of precipitation was adopted because finer measures were not available for weather data. Using a continuous measure of the amount of precipitation may increase the predictive ability of our models but is unlikely to dramatically alter the figures reported.

Third, the regression equation used to estimate vehicle counts at the White River entrance was a weaker predictor of actual vehicle counts than the parallel equation used for the Nisqually and Stevens Canyon vehicle counts ($R^2=.70$ and $.58$, respectively). The weaker predictive ability of the White River equation may have resulted because weather East of the cascades (e.g., in Yakima) and on the East side of MORA were not included as predictors of visitation. Thus, the weaker predictive ability of the White River regression equation might be explained if East-side visitors were more heavily represented at White River and if Eastern weather differs from that to the West. In any case, the difference in predictive ability probably has some negative effect on the reliability of the estimated number of vehicles entering the White River gate.

Production of Visitor Use Estimates for Four Weekday and Weather Conditions

The second step in producing estimates of visitor use was to create models predicting the number of people using trail, facilities, and parking lots based on the number of vehicles entering the park. Note that we did not include weather variables in this part of analysis. As stated earlier, weather was found to effect visitation almost exclusively by determining the number of vehicles entering the park. Thus number of vehicles entering the park includes the effects of weather.

Data Sources

Independent Variables

Number of Vehicles Entering MORA

1. Combined number of vehicles entering the Nisqually and Stevens Canyon Entrances.
2. Number of vehicles entering the White River Entrance.

Dependent Variables

Number of People Entering Trails

1. Daily total of people entering each trail (the sum of people entering trails between from 10 a.m. and 4 p.m.).
2. Peak hourly count of people entering each trail (the largest of the hourly cumulative counts for each day).
3. Daily total of two-way traffic on each trail (the sum of people entering and leaving trails between from 10 a.m. and 4 p.m.).
4. Peak hourly count of two-way traffic on each trail (the largest hourly cumulative count of entries and exits).

Number of People in Facilities:

1. Average number of people counted in each hourly facility count (the sum of people counted during 'snap-shot' counts between from 10 am. and 4 p.m., divided by the number of counts made [7]).
2. Peak hourly count of people present in each facility (the largest of the hourly 'snap-shot' counts for each day).

Number of Vehicles in Parking Lots:

1. Average number of vehicles counted in each hourly parking lot count (the sum of vehicles counted during 'snap-shot' counts between from 10 am. and 4 p.m., divided by the number of counts made [7]).
2. Peak hourly count of vehicles present in each parking lot (the largest of the hourly 'snap-shot' counts for each day).

The number of people entering trails, the number of people in visitor facilities, and the number of vehicles in parking lots were from the Visitor Distribution Survey of 1995. Counts were recorded at hourly intervals in the Visitor Distribution Survey, from 10:00 am to 4:00 p.m. during the 12 observation days of the survey.

The methodology used in the Visitor Distribution Survey to record facility and parking lot counts differed from that used on trails and has an important effect on the interpretation of the current analyses. Trail counts represent the cumulative count of the number of visitors who passed the observer and entered or exited a trail in the hour prior to data recording. In contrast, the facility counts were collected on the hour as a 'snap-shot' count of the number of visitors using the facility at that point in time. (Likewise, parking lots represented the number of vehicles present at that point in time). Thus, estimates of trail use produced in this document are for the cumulative number of visitors using each trail (either daily or hourly, with the unit being specified). However, the primary estimates of facility and parking lot counts are for 'snap-shot' counts of visitor or vehicle density. Conversion of 'snap-shot' counts to cumulative counts (or vice-versa) is theoretically possible, but requires additional knowledge concerning the patterns of visitation flow such as the average time that visitors spend in a facility. Conversion of 'snap-shot' counts is not attempted in this report. Therefore readers should note for each table what form of count is being estimated.

Regression Models

Four regression models were calculated for each trail site, one for each of the dependent variables listed above (daily total entries, peak hourly entries, daily total two-way counts, and peak hourly two-way counts). In each model the independent variable was a daily count of the number of vehicles entering the park, either the combined Nisqually and Stevens canyon entries, or the White River entries, whichever was appropriate. Thus, each model predicted a particular type of trail count based on the number of vehicles entering that area of MORA. The parameters of each regression model, including the constant and coefficient, as well as the R^2 values are included in the tables of estimates that constitute the results of this section.

In a similar manner, two regression models were calculated for each facility and parking lot, one for the average hourly count and one for the peak hourly count. As with the trails, daily vehicle entry count from the appropriate gate(s) was used as the independent variable and the model parameters are included in the tabular results.

Although there is a theoretical basis for arguing that all regression models should predict exactly zero visitation when zero vehicles enter the park, the regression models were not forced to comply with this specification. This decision was based on two related arguments: First, because the range of vehicle entry counts used to produce the regression models did not include zero, making judgments about the regression line at zero, even on a theoretical basis, is unwise. Second, the goal of this paper is pragmatic, to best estimate visitor use at a variety of sites. Thus, theoretical aspects of the models used are secondary to the strength of those models' predictive ability. Forcing the regression models to predict zero visitation at zero vehicle entries decreases the predictive ability of the models.

Limitations of the Data and Methods

Several factors affect the reliability of the estimates resulting from the methods used, and readers should be aware of these limitations. First, the regression equations used to make estimates for individual sites depend, at most, on 12 observation days, and a few sites were observed on as few as four days. The tables used to present results list the number of weekdays or weekend days that were used to make estimates. Readers should observe those numbers and use caution in assuming the accuracy of estimates based on small numbers of days. Specific examples of how to interpret the accuracy of estimates are given in the boxed text that precedes the tables below.

Second, some sites have very low visitation rates. Estimates for such sites may be less reliable because random variation is likely to have a greater effect. For example, if one or two large parties of hikers visited Westside Road on weekdays that were observed, they could have a large and potentially misleading effect on the estimation of weekday visitors. Accordingly, more confidence can be placed in the estimations for busier sites than for those with low visitation rates.

Third, and finally, estimates for sites in the Chinook Pass and Ohanapecosh areas used Nisqually and Stevens Canyon vehicle counts, even though those sites are outside the corridor accessed via those gates. This was largely a practical choice based on the fact that full counts of the number of vehicles passing those areas were not available, and because such counts, even if available, would likely include vehicles that should not be classified as park visitors. Increased caution should therefore be assumed in applying the estimates for visitation in these areas.

Results

Tables 9.2 through 9.17 show summary results, use estimates, and regression parameters for trails, facilities, and parking lots. The observed numbers are presented for weekdays and weekends. Estimates of visitor use are presented for four conditions:

1. a weekday with poor weather
2. a weekday with nice weather
3. a weekend with poor weather
4. a weekend with nice weather

As discussed earlier, the regression models for each site used the number of vehicles entering the park to predict visitor use. Accordingly, the estimate of visitor use for each of the four weekend/weather conditions listed above was obtained from each model by solving the regression equation using the appropriate vehicle entry count listed in Table 9.1. For example, the peak hourly count of trail entries at the Trail of the Shadows (a Longmire area trail) on a nice weather weekday was obtained by using the

regression model to estimate peak trail entries when the number of vehicles entering the Nisqually and Stevens Canyon gates was 2227.

In all the tables, data are listed based on the location of the trails, starting at the Nisqually entrance and moving counterclockwise around the mountain. Each site name is preceded by the site number used in the VDS. Accurate descriptions of site locations can be found earlier in this report.

Trail use estimates: Total daily counts.

Table 9.2 presents the first type of visitor trail use estimates; the average total number of visitors who are expected to enter the trail at each observation point during the hours between 10:00 am and 4:00 p.m. on the four types of days described above. The parameters of the regression models that were used to produce Table 9.2 are shown in Table 9.3.

Interpreting Tables 9.2 and 9.3

The data of primary interest in this table are the estimates of visitor entries on each trail. If interested in the average number of visitors entering the Nisqually Vista Trail on a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "110. Nisqually Vista T. @ Dead Horse T." The number of visitors found there is 257. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.2 and 9.3. First, in Table 9.2, the next-to-last column labeled, "Weekday N" shows that data from the maximum of 6 days were used to make this estimate. This is good -- if 4, or even 2 days were used we would have less confidence in the estimate. Also, in Table 9.3, we could look at the column labeled "R²". Recall from earlier discussion that R² is another indicator that can be used to assess confidence in an estimate. For the Nisqually Vista Trail, R² is 0.57. This falls in the range that could be considered "good". Together, the N of 6 and R² of 0.57 should be taken as indications that this is probably a good-to-very good estimate of the number of people that will enter the Nisqually Vista Trail between 10:00 and 4:00 on weekdays with nice weather.

Table 9.2. Daily Counts of People Entering Trails: Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather		
101. WESTSIDE ROAD	8	34	7	26	31	50	6	6
126. KAUTZ CREEK T.	21	71	14	43	51	80	4	3
102. T. OF SHADOWS	103	188	100	161	177	238	6	6
104. RAMPART RIDGE T. @ T. OF SHADOWS	18	35	18	29	32	43	6	6
105. RAMPART RIDGE T. @ WONDERLAND T.	15	21	14	20	21	27	6	6
106. WONDERLAND T. @ RAMPART RIDGE T.	11	34	16	25	27	36	6	6
107. EAGLE PEAK T.	4	15	6	10	12	16	5	5
108. COMET FALLS T.	82	142	76	124	136	183	6	6
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	22	23	15	23	25	33	4	4
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	3	5	3	4	4	5	4	4
129. VAN TRUMP PARK:TO T. END	21	64	21	43	49	70	4	4
158. VAN TRUMP PARK:TO MILDRED POINT	4	22	6	13	15	22	4	4
123. NARADA FALLS T.	576	937	538	830	906	1198	6	6
125. T. CLOSE TO PARADISE INN	353	329	268	532	601	865	2	2
109. DEAD HORSE T. @ NISQUALLY VISTA T.	92	143	61	137	156	232	6	6
110. NISQUALLY VISTA T. @ DEAD HORSE T.	202	268	171	257	279	365	6	6
111. T. TO ALTA VISTA FROM P. LOT/ROAD	146	344	116	288	333	506	6	6
307."DANCE FLOOR" *	5	12	4	8	9	13	4	4
130. SKYLINE T. PAST "DANCE FLOOR"	396	883	370	643	715	988	4	4
112. SKYLINE T. @ T. TO DEAD HORSE T.	566	1016	475	897	1008	1430	6	6
113. T. TO DEAD HORSE T. @ SKYLINE T.	96	252	79	176	201	298	5	4
131. PEBBLE CREEK	96	209	99	153	167	222	4	4
114. LAKES T.	21	26	16	25	27	36	4	6
132. LAKES T. @ SKYLINE T.	9	18	9	13	15	19	4	4
133. SKYLINE T. @ LAKES T.	17	60	11	39	46	73	4	4
134. PINNACLE PEAK T.	28	95	29	62	70	103	4	4
135. T. IN FRONT OF REF. LAKES	46	117	33	82	95	143	4	4
136. REF. LAKES T. (W) @ WONDERLAND T.	18	52	20	35	39	54	4	4
137. WONDERLAND T. @ REF. LAKES T. (W)	9	7	7	8	9	10	4	4
138. REF. LAKES T. (E) @ WONDERLAND T.	12	22	9	17	19	27	4	4
139. WONDERLAND T. @ REF. LAKES T. (E)	11	9	11	10	9	9	4	4

Table 9.2 (Continued). Daily Counts of People Entering Trails: Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather*		
140. BENCH LAKE T.	27	61	24	44	49	69	4	4
141. BOX CANYON LOOP T.	230	327	234	279	290	335	4	4
115. T. ACROSS FROM P. LOT AT GROVE OF PATS	20	40	23	32	35	45	6	6
116. GROVE OF THE PATRIARCHS	217	349	202	310	338	445	6	6
143. NACHES PEAK T. @ UPPER TIPSOO L.	19	66	13	43	51	81	4	4
144. NACHES PEAK T. @ PACIFIC CREST T.	68	286	52	164	194	306	4	3
154. UPPER TIPSOO LAKE	16	45	18	31	35	48	3	4
190. TIPSOO LAKE T.*	5	19	4	12	14	22	4	4
117. RIM T. @ EMMONS VISTA T.	56	118	35	108	126	199	6	6
118. EMMONS VISTA T. @ RIM T.	49	87	29	84	98	152	6	6
119. RIM T. @ PET LOOP T.	6	43	1	34	43	77	6	6
120. PET LOOP T.	0	5	1	5	6	9	2	2
121. NATURE T.	179	528	97	460	553	915	6	6
124. PET LOOP T. @ RIM T.	3	10	1	18	22	38	2	2
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	17	69	7	47	57	97	4	4
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	17	89	6	57	70	120	4	4
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	32	165	4	107	134	236	4	4
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	35	116	22	75	88	140	4	3
148. GLACIER BASIN: TO T. END	24	78	29	53	60	84	4	4
149. HUCKLEBERRY CREEK T.	3	1	3	2	2	0	2	2
150. LAKE ELEANOR T. OUT OF PARK	8	11	5	9	10	15	4	4
151. LAKE ELEANOR T. INTO PARK	6	20	1	13	16	28	4	4
152. CURTIS WAY T. @ WONDERLAND T.	0	6	1	4	5	8	2	2

* Data for site 307 and 190 are based on 'snap-shot' counts and represent the average of the hourly counts observed.

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday N's. Counts taken between 10:00 am and 4:00 pm.

**Table 9.3. Regression Model Parameters Underlying Trail Use Estimates:
DAILY TOTAL of People ENTERING Trails**

TRAIL SITES	Week-	Week-	R ²	Regression Coefficient	Constant
	day N	end N			
101. WESTSIDE ROAD	6	6	0.82	0.02	-25.22
126. KAUTZ CREEK T.	4	3	0.89	0.03	-34.27
102. T. OF SHADOWS	6	6	0.83	0.07	-0.44
104. RAMPART RIDGE T. @ T. OF SHADOWS	6	6	0.39	0.01	0.62
105. RAMPART RIDGE T. @ WONDERLAND T.	6	6	0.20	0.01	3.83
106. WONDERLAND T. @ RAMPART RIDGE T.	6	6	0.13	0.01	1.52
107. EAGLE PEAK T.	5	5	0.23	0.01	-0.91
108. COMET FALLS T.	6	6	0.78	0.06	-1.13
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	4	4	0.25	0.01	1.49
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	4	4	0.02	0.00	1.94
129. VAN TRUMP PARK:TO T. END	4	4	0.66	0.03	-14.28
158. VAN TRUMP PARK:TO MILDRED POINT	4	4	0.48	0.01	-6.30
123. NARADA FALLS T.	6	6	0.87	0.35	58.57
125. T. CLOSE TO PARADISE INN	2	2	0.61	0.31	-165.19
109. DEAD HORSE T. @ NISQUALLY VISTA T.	6	6	0.64	0.09	-63.33
110. NISQUALLY VISTA T. @ DEAD HORSE T.	6	6	0.57	0.10	30.09
111. T. TO ALTA VISTA FROM P. LOT/ROAD	6	6	0.91	0.20	-167.62
307."DANCE FLOOR" *	4	4	0.85	0.00	-2.23
130. SKYLINE T. PAST "DANCE FLOOR"	4	4	0.84	0.32	-78.16
112. SKYLINE T. @ T. TO DEAD HORSE T.	6	6	0.90	0.50	-218.37
113. T. TO DEAD HORSE T. @ SKYLINE T.	5	4	0.79	0.11	-79.42
131. PEBBLE CREEK	4	4	0.63	0.06	9.85
114. LAKES T.	4	6	0.45	0.01	1.80
132. LAKES T. @ SKYLINE T.	4	4	0.33	0.01	1.93
133. SKYLINE T. @ LAKES T.	4	4	0.81	0.03	-33.58
134. PINNACLE PEAK T.	4	4	0.64	0.04	-25.48
135. T. IN FRONT OF REF. LAKES	4	4	0.93	0.06	-46.29
136. REF. LAKES T. (W) @ WONDERLAND T.	4	4	0.56	0.02	-5.30
137. WONDERLAND T. @ REF. LAKES T. (W)	4	4	0.05	0.00	4.12
138. REF. LAKES T. (E) @ WONDERLAND T.	4	4	0.83	0.01	-4.18
139. WONDERLAND T. @ REF. LAKES T. (E)	4	4	0.02	0.00	12.14
140. BENCH LAKE T.	4	4	0.78	0.02	-8.89
141. BOX CANYON LOOP T.	4	4	0.32	0.05	161.73
115. T. ACROSS FROM P. LOT AT GROVE OF PATS.	6	6	0.55	0.01	6.34
116. GROVE OF THE PATRIARCHS	6	6	0.74	0.13	25.89

Table 9.3 (Continued). Regression Model Parameters Underlying Trail Use Estimates:
DAILY TOTAL of People ENTERING Trails

TRAIL SITES	Week-	Week-	R ²	Regression Coefficient	Constant
	day N	end N			
143. NACHES PEAK T. @ UPPER TIPSOO L.	4	4	0.82	0.04	-37.07
144. NACHES PEAK T. @ PACIFIC CREST T.	4	3	0.94	0.13	-132.24
154. UPPER TIPSOO LAKE	3	4	0.36	0.02	-2.95
190. TIPSOO LAKE T.*	4	4	0.85	0.01	-9.83
117. RIM T. @ EMMONS VISTA T.	6	6	0.84	0.15	-23.55
118. EMMONS VISTA T. @ RIM T.	6	6	0.81	0.11	-15.01
119. RIM T. @ PET LOOP T.	6	6	0.93	0.07	-26.57
120. PET LOOP T.	2	2	0.14	0.01	-1.66
121. NATURE T.	6	6	0.94	0.75	-195.90
124. PET LOOP T. @ RIM T.	2	2	0.76	0.03	-11.72
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	4	4	0.92	0.08	-25.33
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	4	4	0.95	0.10	-34.29
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	4	4	0.98	0.21	-78.58
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	4	3	0.73	0.11	-19.61
148. GLACIER BASIN: TO T. END	4	4	0.39	0.05	8.91
149. HUCKLEBERRY CREEK T.	2	2	0.22	0.00	4.29
150. LAKE ELEANOR T. OUT OF PARK	4	4	0.32	0.01	0.44
LAKE ELEANOR T. INTO PARK	4	4	0.80	0.03	-11.69
CURTIS WAY T. @ WONDERLAND T.	2	2	0.17	0.01	-2.21

* Data for site 307 and 190 are based on 'snap-shot' counts and represent the average of the hourly counts.

Table 9.4 and 9.5 are very similar to Table 9.2 and 9.3, but describe the total number of visitors entering *and leaving* the trail at each observation point.

Interpreting Tables 9.4 and 9.5

The data of primary interest in this table are the estimates of visitor entries+exits on each trail. If interested in the average number of visitors entering and leaving the Nisqually Vista Trail on a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "110. Nisqually Vista T. @ Dead Horse T." The number of visitors found there is 488. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.4 and 9.5. First, in Table 9.4, the next-to-last column labeled, "Weekday N" shows that data from the maximum of 6 days were used to make this estimate. This is good -- if 4, or even 2 days were used we would have less confidence in the estimate. Also, in Table 9.5, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the Nisqually Vista Trail, R^2 is 0.61. This falls in the range that could be considered "good". Together, the N of 6 and R^2 of 0.61 should be taken as indications that this is probably a good-to-very good estimate of the number of people that will enter and leave the Nisqually Vista Trail between 10:00 and 4:00 on weekdays with nice weather.

Table 9.4. Daily Counts of People Entering and Leaving Trails: Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather*		
101. WESTSIDE ROAD	16	57	15	43	50	78	6	6
126. KAUTZ CREEK T.	40	124	30	77	90	137	4	3
102. T. OF SHADOWS	170	322	160	274	304	418	6	6
104. RAMPART RIDGE T. @ T. OF SHADOWS	30	49	28	43	47	62	6	6
105. RAMPART RIDGE T. @ WONDERLAND T.	28	43	27	38	41	51	6	6
106. WONDERLAND T. @ RAMPART RIDGE T.	22	60	30	45	49	64	6	6
107. EAGLE PEAK T.	10	24	14	18	20	25	5	5
108. COMET FALLS T.	143	233	138	204	222	288	6	6
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	42	51	38	46	48	57	4	4
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	3	8	4	5	6	7	4	4
129. VAN TRUMP PARK TO T. END	34	111	37	73	82	118	4	4
158. VAN TRUMP PARK TO MILDRED	7	34	9	21	24	35	4	4
123. NARADA FALLS T.	1155	1857	1085	1647	1794	2356	6	6
125. T. CLOSE TO PARADISE INN	620	636	471	1039	1188	1756	2	2
109. DEAD HORSE T. @ NISQUALLY VISTA T.	138	228	91	213	245	367	6	6
110. NISQUALLY VISTA T. @ DEAD HORSE T.	376	513	315	488	533	705	6	6
111. T. TO ALTA VISTA FROM P. LOT/ROAD	314	657	248	565	649	967	6	6
130. SKYLINE T. PAST "DANCE FLOOR"	691	1432	591	1068	1193	1669	4	4
112. SKYLINE T. @ T. TO DEAD HORSE T.	901	1730	782	1494	1680	2392	6	6
113. T. TO DEAD HORSE T. @ SKYLINE T.	204	478	176	345	389	558	5	4
131. PEBBLE CREEK	166	317	170	242	261	333	4	4
114. LAKES T.	40	52	33	49	53	69	4	6
132. LAKES T. @ SKYLINE T.	22	37	19	29	32	43	4	4
133. SKYLINE T. @ LAKES T.	85	223	74	155	176	257	4	4
134. PINNACLE PEAK T.	54	168	54	112	127	184	4	4
135. T. IN FRONT OF REF. LAKES	88	221	65	156	180	271	4	4
136. REF. LAKES T. (W) @ WONDERLAND T.	35	89	34	62	70	98	4	4
137. WONDERLAND T. @ REF. LAKES T. (W)	18	20	15	19	20	23	4	4
138. REF. LAKES T. (E) @ WONDERLAND T.	20	43	18	31	35	49	4	4
139. WONDERLAND T. @ REF. LAKES T. (E)	15	20	16	18	18	20	4	4

Table 8.4 (Continued). Daily Counts of People Entering and Leaving Trails: Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather*		
140. BENCH LAKE T.	54	110	50	82	91	124	4	4
141. BOX CANYON LOOP T.	455	638	468	547	568	647	4	4
115. T. ACROSS FROM P. LOT AT GROVE OF	42	79	45	65	70	90	6	6
116. GROVE OF THE PATRIARCHS	402	652	387	574	623	809	6	6
143. NACHES PEAK T. @ UPPER TIPSOO	60	199	35	131	156	252	4	4
144. NACHES PEAK T. @ PACIFIC CREST T.	101	403	69	234	278	443	4	3
154. UPPER TIPSOO LAKE	31	73	29	53	59	83	3	4
117. RIM T. @ EMMONS VISTA T.	102	231	69	208	241	379	6	6
118. EMMONS VISTA T. @ RIM T.	89	154	55	149	173	266	6	8
119. RIM T. @ PET LOOP	47	159	24	136	164	276	6	6
120. PET LOOP T.	2	13	2	19	24	41	2	2
121. NATURE T.	301	813	171	716	855	1400	6	6
124. PET LOOP T. @ RIM	4	15	3	24	29	50	2	2
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	43	123	21	88	106	173	4	4
146. MT. FREEMONT T. @ BURR./WOND./SUN.	34	161	17	105	128	216	4	4
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN.	51	221	13	148	183	318	4	4
156. SUNRISE CAMP T. @	43	145	26	93	110	177	4	3
148. GLACIER BASIN: TO T. END	47	143	53	99	111	158	4	4
149. HUCKLEBERRY CREEK T.	6	1	7	4	3	1	2	2
150. LAKE ELEANOR T. OUT OF PARK	14	23	9	19	21	31	4	4
151. LAKE ELEANOR T. INTO PARK	10	31	1	20	25	45	4	4
152. CURTIS WAY T. @ WONDERLAND T.	0	11	1	6	8	14	2	2

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday Ns. Counts taken between 10:00 am and 4:00 pm.

**Table 9.5. Regression Model Parameters Underlying Trail Use Estimates:
DAILY TOTAL of People ENTERING AND LEAVING Trails**

TRAIL SITES	Week- day N	Week- end N	R ²	Regression Coefficient	Constant
101. WESTSIDE ROAD	6	6	0.74	0.03	-30.08
126. KAUTZ CREEK T.	4	3	0.87	0.06	-47.74
102. T. OF SHADOWS	6	6	0.83	0.14	-26.50
104. RAMPART RIDGE T. @ T. OF SHADOWS	6	6	0.41	0.02	3.86
105. RAMPART RIDGE T. @ WONDERLAND T.	6	6	0.61	0.01	10.02
106. WONDERLAND T. @ RAMPART RIDGE T.	6	6	0.17	0.02	5.14
107. EAGLE PEAK T.	5	5	0.14	0.01	5.42
108. COMET FALLS T.	6	6	0.71	0.08	30.08
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	4	4	0.35	0.01	23.52
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	4	4	0.08	0.00	2.16
129. VAN TRUMP PARK:TO T. END	4	4	0.50	0.04	-21.73
158. VAN TRUMP PARK:TO MILDRED POINT	4	4	0.52	0.01	-9.04
123. NARADA FALLS T.	6	6	0.85	0.67	163.20
125. T. CLOSE TO PARADISE INN	2	2	0.72	0.67	-461.82
109. DEAD HORSE T. @ NISQUALLY VISTA T.	6	6	0.67	0.14	-109.48
110. NISQUALLY VISTA T. @ DEAD HORSE T.	6	6	0.61	0.20	32.58
111. T. TO ALTA VISTA FROM P. LOT/ROAD	6	6	0.91	0.38	-274.15
130. SKYLINE T. PAST "DANCE FLOOR"	4	4	0.86	0.57	-192.21
112. SKYLINE T. @ T. TO DEAD HORSE T.	6	6	0.90	0.84	-387.39
113. T. TO DEAD HORSE T. @ SKYLINE T.	5	4	0.85	0.20	-102.31
131. PEBBLE CREEK	4	4	0.61	0.09	52.01
114. LAKES T.	4	6	0.37	0.02	6.17
132. LAKES T. @ SKYLINE T.	4	4	0.79	0.01	0.62
133. SKYLINE T. @ LAKES T.	4	4	0.84	0.10	-58.02
134. PINNACLE PEAK T.	4	4	0.65	0.07	-39.47
135. T. IN FRONT OF REF. LAKES	4	4	0.92	0.11	-85.55
136. REF. LAKES T. (W) @ WONDERLAND T.	4	4	0.73	0.03	-12.42
137. WONDERLAND T. @ REF. LAKES T. (W)	4	4	0.14	0.00	10.29
138. REF. LAKES T. (E) @ WONDERLAND T.	4	4	0.87	0.02	-4.44
139. WONDERLAND T. @ REF. LAKES T. (E)	4	4	0.03	0.00	12.84
140. BENCH LAKE T.	4	4	0.75	0.04	-4.32
141. BOX CANYON LOOP T.	4	4	0.26	0.09	338.37
115. T. ACROSS FROM P. LOT AT GROVE OF PATS.	6	6	0.45	0.02	13.47
116. GROVE OF THE PATRIARCHS	6	6	0.70	0.22	81.56

Table 9.5 (Continued). Regression Model Parameters Underlying Trail Use Estimates:
DAILY TOTAL of People ENTERING AND LEAVING Trails

TRAIL SITES	Week-	Week-	R ²	Regression Coefficient	Constant
	day N	end N			
143. NACHES PEAK T. @ UPPER TIPSOO L.	4	4	0.85	0.11	-123.01
144. NACHES PEAK T. @ PACIFIC CREST T.	4	3	0.98	0.20	-202.37
154. UPPER TIPSOO LAKE	3	4	0.45	0.03	-10.06
117. RIM T. @ EMMONS VISTA T.	6	6	0.76	0.28	-41.79
118. EMMONS VISTA T. @ RIM T.	6	6	0.78	0.19	-20.23
119. RIM T. @ PET LOOP T.	6	6	0.91	0.23	-66.35
120. PET LOOP T.	2	2	0.80	0.04	-11.51
121. NATURE T.	6	6	0.94	1.13	-268.19
124. PET LOOP T. @ RIM T.	2	2	0.87	0.04	-13.27
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	4	4	0.92	0.14	-32.77
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	4	4	0.94	0.18	-54.45
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	4	4	0.97	0.28	-96.25
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	4	3	0.78	0.14	-28.47
148. GLACIER BASIN: TO T. END	4	4	0.47	0.10	14.97
149. HUCKLEBERRY CREEK T.	2	2	0.25	0.00	10.74
150. LAKE ELEANOR T. OUT OF PARK	4	4	0.42	0.01	-7.00
151. LAKE ELEANOR T. INTO PARK	4	4	0.77	0.02	-30.38
152. CURTIS WAY T. @ WONDERLAND T.	2	2	0.36	0.01	-8.52

Trail use estimates: Peak daily counts.

Models were also produced to predict the peak number of visitors counted during any of the hour-long observation periods. Table 9.6 presents the number of visitors who are expected to enter the trail at each observation point during the busiest one-hour observation period between 10:00 am and 4:00 p.m. on the four types of days described above. The parameters of the regression models that were used to produce Table 9.6 are shown in Table 9.7.

Interpreting Tables 9.6 and 9.7

The data of primary interest in this table are the estimates of peak-hour visitor entries on each trail. If interested in the average number of visitors entering the Nisqually Vista Trail during the peak hour of a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "110. Nisqually Vista T. @ Dead Horse T." The number of visitors found there is 74. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.6 and 9.7. First, in Table 9.6, the next-to-last column labeled, "Weekday N" shows that data from the maximum of 6 days were used to make this estimate. This is good -- if 4, or even 2 days were used we would have less confidence in the estimate. Also, in Table 9.7, we could look at the column labeled "R²". Recall from earlier discussion that R² is another indicator that can be used to assess confidence in an estimate. For the Nisqually Vista Trail, R² is 0.52. This falls in the range that could be considered "good". Together, the N of 6 and R² of 0.52 should be taken as indications that this is probably a good-to-very good estimate of the number of people that will enter the Nisqually Vista Trail during a peak one-hour period on weekdays with nice weather.

Table 9.6. Peak Hourly Counts of People Entering Trails (Daily Peaks): Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather		
101. WESTSIDE ROAD	5	12	5	9	10	15	6	6
126. KAUTZ CREEK T.	8	20	7	13	15	21	4	3
102. T. OF SHADOWS	30	48	30	42	45	57	6	6
104. RAMPART RIDGE T. @ T. OF SHADOWS	8	11	8	10	11	13	6	6
105. RAMPART RIDGE T. @ WONDERLAND T.	6	10	6	9	9	11	6	6
106. WONDERLAND T. @ RAMPART RIDGE T.	6	15	8	11	11	14	6	6
107. EAGLE PEAK T.	3	7	3	5	5	7	5	5
108. COMET FALLS T.	23	38	23	33	35	45	6	6
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	8	11	5	10	11	15	4	4
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	3	3	3	3	3	3	4	4
129. VAN TRUMP PARK TO T. END	9	24	9	16	19	26	4	4
158. VAN TRUMP PARK TO MILDRED	3	10	4	7	7	10	4	4
123. NARADA FALLS T.	132	230	132	197	214	280	6	6
125. T. CLOSE TO PARADISE INN	106	100	90	137	149	196	2	2
109. DEAD HORSE T. @ NISQUALLY VISTA T.	36	41	26	43	47	64	6	6
110. NISQUALLY VISTA T. @ DEAD HORSE T.	57	79	52	74	79	100	6	6
111. T. TO ALTA VISTA FROM P. LOT/ROAD	48	112	42	92	106	156	6	6
307. "DANCE FLOOR" *	13	30	14	21	24	31	4	4
130. SKYLINE T. PAST "DANCE FLOOR"	104	198	109	151	163	205	4	4
112. SKYLINE T. @ T. TO DEAD HORSE T.	146	256	129	225	251	347	6	6
113. T. TO DEAD HORSE T. @ SKYLINE T.	29	73	25	52	58	85	5	4
131. PEBBLE CREEK	44	76	40	60	66	86	4	4
114. LAKES T.	10	11	7	11	12	16	4	6
132. LAKES T. @ SKYLINE T.	5	9	4	7	7	10	4	4
133. SKYLINE T. @ LAKES T.	7	18	6	13	14	21	4	4
134. PINNACLE PEAK T.	14	31	15	22	24	31	4	4
135. T. IN FRONT OF REF. LAKES	15	36	12	26	29	43	4	4
136. REF. LAKES T. (W) @ WONDERLAND T.	7	20	8	14	15	21	4	4
137. WONDERLAND T. @ REF. LAKES T. (W)	5	4	4	4	4	5	4	4
138. REF. LAKES T. (E) @ WONDERLAND T.	6	13	4	10	11	16	4	4
139. WONDERLAND T. @ REF. LAKES T. (E)	5		5	6	6	6	4	4

Table 9.6 (Continued). Peak Hourly Counts of People Entering Trails (Daily Peaks): Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather*		
140. BENCH LAKE T.	11	21	11	16	17	22	4	4
141. BOX CANYON LOOP T.	65	98	61	82	87	107	4	4
115. T. ACROSS FROM P. LOT AT GROVE OF	8	15	10	12	13	15	6	6
116. GROVE OF THE PATRIARCHS	54	88	55	76	81	102	6	6
143. NACHES PEAK T. @ UPPER TIPSOO	9	28	7	19	22	34	4	4
144. NACHES PEAK T. @ PACIFIC CREST T.	25	70	21	45	51	75	4	3
154. UPPER TIPSOO LAKE	5	21	8	13	15	20	3	4
190. TIPSOO LAKE T.*	12	33	4	12	14	22	4	4
117. RIM T. @ EMMONS VISTA T.	18	33	16	30	33	47	6	6
118. EMMONS VISTA T. @ RIM T.	21	31	15	31	35	51	6	6
119. RIM T. @ PET LOOP	4	17	1	14	18	31	6	6
120. PET LOOP T.	0	5	1	5	6	9	2	2
121. NATURE T.	51	128	37	111	130	204	6	6
124. PET LOOP T. @ RIM	3	9	1	16	20	35	2	2
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	7	20	5	14	17	26	4	4
146. MT. FREEMONT T. @ BURR./WOND./SUN.	7	31	6	20	24	38	4	4
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN.	10	48	4	31	38	66	4	4
156. SUNRISE CAMP T. @	15	51	10	32	38	60	4	3
148. GLACIER BASIN: TO T. END	10	26	27	40	44	57	4	4
149. HUCKLEBERRY CREEK T.	3	1	3	2	2	0	2	2
150. LAKE ELEANOR T. OUT OF PARK	3	6	3	5	5	7	4	4
151. LAKE ELEANOR T. INTO PARK	2	14	0	8	10	18	4	4
152. CURTIS WAY T. @ WONDERLAND T.	0	2	0	1	2	3	2	2

* Data for site 307 and 190 are based on 'snap-shot' counts and represent the peak hourly counts observed.

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday Ns. Counts taken between 10:00 am and 4:00 pm.

Table 9.7. Regression Model Parameters Underlying Trail Use Estimates:
DAILY PEAK in Hourly Count of People ENTERING Trails

TRAIL SITES	Week- day N	Week- end N	R ²	Regression Coefficient	Constant
101. WESTSIDE ROAD	6	6	0.55	0.00	-1.82
126. KAUTZ CREEK T.	4	3	0.88	0.01	-2.51
102. T. OF SHADOWS	6	6	0.64	0.01	10.68
104. RAMPART RIDGE T. @ T. OF SHADOWS	6	6	0.15	0.00	4.25
105. RAMPART RIDGE T. @ WONDERLAND T.	6	6	0.12	0.00	2.98
106. WONDERLAND T. @ RAMPART RIDGE T.	6	6	0.07	0.00	3.83
107. EAGLE PEAK T.	5	5	0.28	0.00	0.57
108. COMET FALLS T.	6	6	0.38	0.01	6.92
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	4	4	0.46	0.01	-1.97
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	4	4	0.00	0.00	2.33
129. VAN TRUMP PARK:TO T. END	4	4	0.67	0.01	-3.91
158. VAN TRUMP PARK:TO MILDRED POINT	4	4	0.38	0.00	-1.13
123. NARADA FALLS T.	6	6	0.73	0.08	23.73
125. T. CLOSE TO PARADISE INN	2	2	0.56	0.06	12.29
109. DEAD HORSE T. @ NISQUALLY VISTA T.	6	6	0.49	0.02	-1.48
110. NISQUALLY VISTA T. @ DEAD HORSE T.	6	6	0.52	0.03	17.59
111. T. TO ALTA VISTA FROM P. LOT/ROAD	6	6	0.86	0.06	-39.97
307."DANCE FLOOR" *	4	4	0.64	0.01	0.78
130. SKYLINE T. PAST "DANCE FLOOR"	4	4	0.42	0.05	38.81
112. SKYLINE T. @ T. TO DEAD HORSE T.	6	6	0.82	0.11	-28.53
113. T. TO DEAD HORSE T. @ SKYLINE T.	5	4	0.78	0.03	-18.07
131. PEBBLE CREEK	4	4	0.84	0.02	6.33
114. LAKES T.	4	6	0.40	0.00	0.13
132. LAKES T. @ SKYLINE T.	4	4	0.80	0.00	-0.13
133. SKYLINE T. @ LAKES T.	4	4	0.82	0.01	-5.58
134. PINNACLE PEAK T.	4	4	0.17	0.01	4.01
135. T. IN FRONT OF REF. LAKES	4	4	0.81	0.02	-10.20
136. REF. LAKES T. (W) @ WONDERLAND T.	4	4	0.47	0.01	-1.18
137. WONDERLAND T. @ REF. LAKES T. (W)	4	4	0.03	0.00	3.21
138. REF. LAKES T. (E) @ WONDERLAND T.	4	4	0.83	0.01	-4.74
139. WONDERLAND T. @ REF. LAKES T. (E)	4	4	0.00	0.00	5.40
140. BENCH LAKE T.	4	4	0.36	0.01	3.13
141. BOX CANYON LOOP T.	4	4	0.58	0.02	27.89
115. T. ACROSS FROM P. LOT AT GROVE OF PATS.	6	6	0.18	0.00	5.79
116. GROVE OF THE PATRIARCHS	6	6	0.66	0.02	20.81

Table 9.7 (Continued). Regression Model Parameters Underlying Trail Use Estimates:
DAILY PEAK in Hourly Count of People ENTERING Trails

TRAIL SITES	Week- day N	Week- end N	R ²	Regression Coefficient	Constant
143. NACHES PEAK T. @ UPPER TIPSOO L.	4	4	0.78	0.01	-12.94
144. NACHES PEAK T. @ PACIFIC CREST T.	4	3	0.81	0.03	-17.68
154. UPPER TIPSOO LAKE	3	4	0.21	0.01	-0.52
190. TIPSOO LAKE T.*	4	4	0.85	0.01	-9.83
117. RIM T. @ EMMONS VISTA T.	6	6	0.58	0.03	4.72
118. EMMONS VISTA T. @ RIM T.	6	6	0.54	0.03	1.72
119. RIM T. @ PET LOOP T.	6	6	0.86	0.03	-9.63
120. PET LOOP T.	2	2	0.14	0.01	-1.66
121. NATURE T.	6	6	0.91	0.15	-22.56
124. PET LOOP T. @ RIM T.	2	2	0.75	0.03	-10.56
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	4	4	0.72	0.02	-3.33
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	4	4	0.77	0.03	-5.59
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	4	4	0.96	0.06	-18.41
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	4	3	0.66	0.05	-8.21
148. GLACIER BASIN: TO T. END	4	4	0.31	0.02	4.53
149. HUCKLEBERRY CREEK T.	2	2	0.25	0.00	5.37
150. LAKE ELEANOR T. OUT OF PARK	4	4	0.26	0.00	-0.75
LAKE ELEANOR T. INTO PARK	4	4	0.90	0.01	-12.54
CURTIS WAY T. @ WONDERLAND T.	2	2	0.26	0.00	-1.57

* Data for site 307 and 190 are based on 'snap-shot' counts and represent the average of the hourly

Table 9.8 and 9.9 are very similar to Table 9.6 and 9.7, but describe the daily peak in the hourly counts of visitors entering *and leaving* the trail at each observation point.

Interpreting Tables 9.8 and 9.9

The data of primary interest in this table are the estimates of peak-hour visitor entries+exits on each trail. If interested in the average number of visitors entering and leaving the Nisqually Vista Trail during the peak hour of a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "110. Nisqually Vista T. @ Dead Horse T." The number of visitors found there is 133. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.8 and 9.9. First, in Table 9.8, the next-to-last column labeled, "Weekday N" shows that data from the maximum of 6 days were used to make this estimate. This is good – if 4, or even 2 days were used we would have less confidence in the estimate. Also, in Table 9.9, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the Nisqually Vista Trail, R^2 is 0.62. This falls in the range that could be considered "good". Together, the N of 6 and R^2 of 0.62 should be taken as indications that this is probably a good-to-very good estimate of the number of people that will enter and leave the Nisqually Vista Trail during a peak one-hour period on weekdays with nice weather.

Table 9.8. Peak Hourly Counts of People Entering and Leaving Trails (Daily Peaks): Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather		
101. WESTSIDE ROAD	7	16	7	13	14	20	6	6
126. KAUTZ CREEK T.	12	29	10	20	22	32	4	3
102. T. OF SHADOWS	47	87	46	74	81	110	6	6
104. RAMPART RIDGE T. @ T. OF SHADOWS	11	17	10	15	16	21	6	6
105. RAMPART RIDGE T. @ WONDERLAND T.	10	17	12	14	14	16	6	6
106. WONDERLAND T. @ RAMPART RIDGE T.	7	21	11	15	16	20	6	6
107. EAGLE PEAK T.	5	8	6	7	7	7	5	5
108. COMET FALLS T.	37	60	36	53	57	74	6	6
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	12	18	12	15	16	19	4	4
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	3	4	3	4	4	4	4	4
129. VAN TRUMP PARK TO T. END	14	36	16	25	27	36	4	4
158. VAN TRUMP PARK TO MILDRED	4	16	4	10	11	17	4	4
123. NARADA FALLS T.	275	449	271	392	424	545	6	6
125. T. CLOSE TO PARADISE INN	161	200	121	336	392	607	2	2
109. DEAD HORSE T. @ NISQUALLY VISTA T.	49	59	35	60	67	92	6	6
110. NISQUALLY VISTA T. @ DEAD HORSE T.	97	146	87	133	145	192	6	6
111. T. TO ALTA VISTA FROM P. LOT/ROAD	98	225	84	187	214	318	6	6
130. SKYLINE T. PAST "DANCE FLOOR"	173	356	147	266	297	416	4	4
112. SKYLINE T. @ T. TO DEAD HORSE T.	229	463	194	396	450	652	6	6
113. T. TO DEAD HORSE T. @ SKYLINE T.	59	143	53	102	115	164	5	4
131. PEBBLE CREEK	69	87	65	78	82	96	4	4
114. LAKES T.	17	18	13	18	19	24	4	6
132. LAKES T. @ SKYLINE T.	10	17	7	14	15	22	4	4
133. SKYLINE T. @ LAKES T.	34	70	30	52	58	81	4	4
134. PINNACLE PEAK T.	20	47	20	33	37	50	4	4
135. T. IN FRONT OF REF. LAKES	28	66	23	47	54	78	4	4
136. REF. LAKES T. (W) @ WONDERLAND T.	13	34	12	23	26	37	4	4
137. WONDERLAND T. @ REF. LAKES T. (W)	7	10	6	8	9	11	4	4
138. REF. LAKES T. (E) @ WONDERLAND T.	9	19	8	14	15	21	4	4
139. WONDERLAND T. @ REF. LAKES T. (E)	6	10	6	8	8	10	4	4

Table 9.8 (Continued). Peak Hourly Counts of People Entering and Leaving Trails (Daily Peaks): Observed Data and Estimates

Trail Sites	Observed No. of People		Estimated Number of People				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather*		
140. BENCH LAKE T.	17	29	18	23	25	30	4	4
141. BOX CANYON LOOP T.	130	181	124	156	164	195	4	4
115. T. ACROSS FROM P. LOT AT GROVE OF	18	26	19	23	24	28	6	6
116. GROVE OF THE PATRIARCHS	89	147	85	129	141	184	6	6
143. NACHES PEAK T. @ UPPER TIPSOO	25	69	21	47	54	80	4	4
144. NACHES PEAK T. @ PACIFIC CREST T.	30	110	23	65	76	119	4	3
154. UPPER TIPSOO LAKE	9	33	11	22	24	35	3	4
117. RIM T. @ EMMONS VISTA T.	32	72	26	62	71	107	6	6
118. EMMONS VISTA T. @ RIM T.	36	51	24	52	59	86	6	6
119. RIM T. @ PET LOOP	18	62	9	53	64	107	6	6
120. PET LOOP T.	2	9	2	13	15	26	2	2
121. NATURE T.	79	206	50	181	215	346	6	6
124. PET LOOP T. @ RIM	3	12	2	20	25	43	2	2
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	11	32	6	23	27	44	4	4
146. MT. FREEMONT T. @ BURR./WOND./SUN.	12	44	8	30	36	58	4	4
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN.	16	66	10	44	52	86	4	4
156. SUNRISE CAMP T. @	16	60	9	37	45	73	4	3
148. GLACIER BASIN: TO T. END	16	45	17	31	34	48	4	4
149. HUCKLEBERRY CREEK T.	3	1	3	2	2	0	2	2
150. LAKE ELEANOR T. OUT OF PARK	5	10	4	7	8	12	4	4
151. LAKE ELEANOR T. INTO PARK	3	16	0	9	12	21	4	4
152. CURTIS WAY T. @ WONDERLAND T.	0	4	0	2	3	5	2	2

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday Ns. Counts taken between 10:00 am and 4:00 pm.

**Table 9.9. Regression Model Parameters Underlying Trail Use Estimates:
DAILY PEAK in Hourly Count of People ENTERING AND LEAVING Trails**

TRAIL SITES	Week- day N	Week- end N	R ²	Regression Coefficient	Constant
101. WESTSIDE ROAD	6	6	0.69	0.01	-2.15
126. KAUTZ CREEK T.	4	3	0.89	0.01	-5.68
102. T. OF SHADOWS	6	6	0.70	0.03	-0.60
104. RAMPART RIDGE T. @ T. OF SHADOWS	6	6	0.51	0.01	1.60
105. RAMPART RIDGE T. @ WONDERLAND T.	6	6	0.13	0.00	8.54
106. WONDERLAND T. @ RAMPART RIDGE T.	6	6	0.09	0.00	4.65
107. EAGLE PEAK T.	5	5	0.02	0.00	4.97
108. COMET FALLS T.	6	6	0.67	0.02	7.70
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	4	4	0.46	0.00	6.25
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	4	4	0.02	0.00	2.76
129. VAN TRUMP PARK:TO T. END	4	4	0.32	0.01	0.90
158. VAN TRUMP PARK:TO MILDRED POINT	4	4	0.71	0.01	-5.40
123. NARADA FALLS T.	6	6	0.68	0.14	72.84
125. T. CLOSE TO PARADISE INN	2	2	0.86	0.25	-232.12
110. DEAD HORSE T. @ NISQUALLY VISTA T.	6	6	0.54	0.03	-6.85
109. NISQUALLY VISTA T. @ DEAD HORSE T.	6	6	0.62	0.06	10.42
111. T. TO ALTA VISTA FROM P. LOT/ROAD	6	6	0.86	0.12	-85.92
130. SKYLINE T. PAST "DANCE FLOOR"	4	4	0.79	0.14	-47.54
112. SKYLINE T. @ T. TO DEAD HORSE T.	6	6	0.92	0.24	-138.29
113. T. TO DEAD HORSE T. @ SKYLINE T.	5	4	0.86	0.06	-27.43
131. PEBBLE CREEK	4	4	0.60	0.02	41.71
114. LAKES T.	4	6	0.29	0.01	5.06
132. LAKES T. @ SKYLINE T.	4	4	0.66	0.01	-3.38
133. SKYLINE T. @ LAKES T.	4	4	0.74	0.03	-6.89
134. PINNACLE PEAK T.	4	4	0.42	0.02	-0.81
135. T. IN FRONT OF REF. LAKES	4	4	0.77	0.03	-16.78
136. REF. LAKES T. (W) @ WONDERLAND T.	4	4	0.74	0.01	-5.24
137. WONDERLAND T. @ REF. LAKES T. (W)	4	4	0.41	0.00	2.70
138. REF. LAKES T. (E) @ WONDERLAND T.	4	4	0.85	0.01	-1.30
139. WONDERLAND T. @ REF. LAKES T. (E)	4	4	0.07	0.00	4.20
140. BENCH LAKE T.	4	4	0.38	0.01	8.30
141. BOX CANYON LOOP T.	4	4	0.42	0.04	72.59
115. T. ACROSS FROM P. LOT AT GROVE OF PATS.	6	6	0.23	0.00	11.81
116. GROVE OF THE PATRIARCHS	6	6	0.82	0.05	13.40

Table 9.9 (Continued). Regression Model Parameters Underlying Trail Use Estimates:
DAILY PEAK in Hourly Count of People ENTERING AND LEAVING Trails

TRAIL SITES	Week-	Week-	R ²	Regression Coefficient	Constant
	day N	end N			
143. NACHES PEAK T. @ UPPER TIPSOO L.	4	4	0.62	0.03	-21.14
144. NACHES PEAK T. @ PACIFIC CREST T.	4	3	0.97	0.05	-47.49
154. UPPER TIPSOO LAKE	3	4	0.53	0.01	-6.59
117. RIM T. @ EMMONS VISTA T.	6	6	0.61	0.07	-2.52
118. EMMONS VISTA T. @ RIM T.	6	6	0.65	0.06	1.86
119. RIM T. @ PET LOOP T.	6	6	0.81	0.09	-25.89
120. PET LOOP T.	2	2	0.67	0.02	-5.98
121. NATURE T.	6	6	0.96	0.27	-56.44
124. PET LOOP T. @ RIM T.	2	2	0.91	0.04	-12.51
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	4	4	0.94	0.03	-7.35
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	4	4	0.88	0.05	-9.75
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	4	4	0.75	0.07	-17.35
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	4	3	0.78	0.06	-14.13
148. GLACIER BASIN: TO T. END	4	4	0.59	0.02	-4.56
149. HUCKLEBERRY CREEK T.	2	2	0.25	0.00	5.37
150. LAKE ELEANOR T. OUT OF PARK	4	4	0.35	0.00	-2.33
151. LAKE ELEANOR T. INTO PARK	4	4	0.88	0.01	-14.70
CURTIS WAY T. @ WONDERLAND T.	2	2	0.59	0.00	-3.43

Facility use estimates.

Table 9.10 presents the first type of visitor facility use estimates; the average number of visitors who are expected to be present in each facility between 10:00 am and 4:00 p.m. on the four types of days described above. The parameters of the regression models that were used to produce Table 9.10 are shown in Table 9.11. Although the campgrounds listed in Table 9.10 and 9.11 do not fit the conventional definition of facilities, they are included here largely because they are based on the same type of hourly counts used at conventional facilities.

Interpreting Tables 9.10 and 9.11

The data of primary interest in this table are the estimates of average hourly snap-shot counts in each facility. If interested in the average number of visitors found in the Jackson Visitor Center Exhibit Rooms during a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "308. J.V.C. Exhibit Rooms (Paradise)". The number of visitors found there is 30. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.10 and 9.11. First, in Table 9.10, the next-to-last column labeled, "Weekday N" shows that data from 4 days were used to make this estimate. The maximum number of days observed was 6, therefore this estimate is not as good as some others, but is better than those based on only 2 days. Also, in Table 9.11, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the J.V.C. Exhibit Rooms, R^2 is 0.23. This falls in the range that could be considered "fair-to-poor". Together, the N of 4 and R^2 of 0.23 should be taken as indications that this is probably only a fair estimate of the number of people that will be found in the J.V.C. Exhibit Rooms between 10:00 and 4:00 during weekdays with nice weather.

Table 9.10. Average Hourly 'Snap-shot' Counts of People in Facilities: Observed Data and

Facility Sites	Observed No. People		Estimated Number of People				Week-Week-	
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather	day N	end N
301. LONGMIRE MUSEUM	7	13	7	11	12	16	6	6
302. J.V.C. LOBBY (PARADISE)	27	40	27	35	37	45	6	6
303. J.V.C. EATING AREA (PARADISE)	33	53	42	45	46	50	2	2
304. J.V.C. SLIDE SHOW (PARADISE)	20	32	22	27	29	35	6	6
305. J.V.C. OBSERVATION DECK (PARADISE)	15	22	18	20	21	23	2	2
308. J.V.C. EXHIBIT ROOMS (PARADISE)	25	34	25	30	31	36	4	4
309. OHANAPECOSH VISITOR CENTER	8	13	9	10	11	12	4	4
306. SUNRISE VISITOR CENTER	15	34	11	30	34	53	6	6
311. GLACIER BASIN CAMPGROUND	2	12	5	7	7	9	4	4
310. MYSTIC LAKE CAMPGROUND	3	8	4	6	6	8	1	2
312. LAKE ELEANOR CAMPGROUND	0	3	3	2	2	1	2	4

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday N's. Counts taken between 10:00 am and 4:00 pm.
Campgrounds are included because counts were made as in facilities.

**Table 9.11. Regression Model Parameters Underlying Facility Use
Average Hourly 'Snap-shot' Counts**

TRAIL SITES	Week- day N	Week- end N	R ²	Regression Coefficient	Constant
301. LONGMIRE MUSEUM	6	6	0.49	0.00	0.22
302. J.V.C. LOBBY (PARADISE)	6	6	0.24	0.01	14.83
303. J.V.C. EATING AREA (PARADISE)	2	2	0.02	0.00	36.04
304. J.V.C. SLIDE SHOW (PARADISE)	6	6	0.23	0.01	11.79
305. J.V.C. OBSERVATION DECK (PARADISE)	2	2	0.07	0.00	14.11
308. J.V.C. EXHIBIT ROOMS (PARADISE)	4	4	0.23	0.01	16.30
309. OHANAPECOSH VISITOR CENTER	4	4	0.11	0.00	6.60
306. SUNRISE VISITOR CENTER	6	6	0.88	0.04	-4.24
311. GLACIER BASIN CAMPGROUND	4	4	0.03	0.00	3.93
310. MYSTIC LAKE CAMPGROUND	1	2	0.04	0.00	2.70
312. LAKE ELEANOR CAMPGROUND	2	4	0.02	0.00	3.45

Models were also produced to predict the peak number of visitors counted during any of the hourly snap-shot counts. Table 9.12 presents the peak number of visitors who are expected to be present in each facility between 10:00 am and 4:00 p.m. on the four types of days described above. The parameters of the regression models that were used to produce Table 9.12 are shown in Table 9.13.

Interpreting Tables 9.12 and 9.13

The data of primary interest in this table are the estimates of peak hourly snap-shot counts in each facility. If interested in the peak number of visitors found in the Jackson Visitor Center Exhibit Rooms during a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "308. J.V.C. Exhibit Rooms (Paradise)". The number of visitors found there is 52. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.12 and 9.13. First, in Table 9.12, the next-to-last column labeled, "Weekday N" shows that data from 4 days were used to make this estimate. The maximum number of days observed was 6, therefore this estimate is not as good as some others, but is better than those based on only 2 days. Also, in Table 9.13, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the J.V.C. Exhibit Rooms, R^2 is 0.29. This falls in the range that could be considered "fair". Together, the N of 4 and R^2 of 0.29 should be taken as indications that this is probably only a fair estimate of the peak number of people that will be found in the J.V.C. Exhibit Rooms during weekdays with nice weather.

Table 9.12. Peak Hourly 'Snap-shot' Counts of People in Facilities: Observed Data and

Facility Sites	Observed No. of People (average peak)		Estimated Number of People in Peak Hours				Week-Week-	
	Weekday	Weekend	Weekday &	Weekday &	Weekend &	Weekend &	day	end
	Average	Average	poor weather	nice weather	poor weather	nice weather	N	N
301. LONGMIRE MUSEUM	14	21	14	19	21	26	6	6
302. J.V.C. LOBBY (PARADISE)	39	63	41	54	57	70	6	6
303. J.V.C. EATING AREA (PARADISE)	77	108	96	82	78	63	2	2
304. J.V.C. SLIDE SHOW (PARADISE)	42	64	47	55	57	65	6	6
305. J.V.C. OBSERVATION DECK (PARADISE)	33	43	34	47	51	64	2	2
308. J.V.C. EXHIBIT ROOMS (PARADISE)	46	58	43	52	54	62	4	4
309. OHANAPECOSH VISITOR CENTER	13	22	15	17	18	20	4	4
306. SUNRISE VISITOR CENTER	25	57	22	49	56	84	6	6
311. GLACIER BASIN CAMPGROUND	2	12	5	7	7	9	4	4
310. MYSTIC LAKE CAMPGROUND	3	8	4	6	6	8	1	2
312. LAKE ELEANOR CAMPGROUND	0	3	3	2	2	1	2	4

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday N's. Counts taken between 10:00 am and 4:00 pm. Campgrounds are included because counts were made as in facilities.

**Table 9.13. Regression Model Parameters Underlying Facility Use
Peak Hourly 'Snap-shot' Counts**

TRAIL SITES	Week-	Week-	R ²	Regression Coefficient	Constant
	day N	end N			
301. LONGMIRE MUSEUM	6	6	0.30	0.01	4.76
302. J.V.C. LOBBY (PARADISE)	6	6	0.28	0.02	19.80
303. J.V.C. EATING AREA (PARADISE)	2	2	0.07	-0.02	120.19
304. J.V.C. SLIDE SHOW (PARADISE)	6	6	0.08	0.01	34.54
305. J.V.C. OBSERVATION DECK (PARADISE)	2	2	0.83	0.02	11.70
308. J.V.C. EXHIBIT ROOMS (PARADISE)	4	4	0.29	0.01	29.70
309. OHANAPECOSH VISITOR CENTER	4	4	0.13	0.00	10.99
306. SUNRISE VISITOR CENTER	6	6	0.79	0.06	-0.65
311. GLACIER BASIN CAMPGROUND	4	4	0.03	0.00	3.93
310. MYSTIC LAKE CAMPGROUND	1	2	0.04	0.00	2.70
312. LAKE ELEANOR CAMPGROUND	2	4	0.02	0.00	3.45

Parking lot use estimates.

Table 9.14 presents the first type of parking lot use estimates; the average number of vehicles who are expected to be present in each parking lot between 10:00 am and 4:00 p.m. on the four types of days described above. The parameters of the regression models that were used to produce Table 9.14 are shown in Table 9.15.

Interpreting Tables 9.14 and 9.15

The data of primary interest in this table are the estimates of average hourly snap-shot counts of vehicles in parking lots. If interested in the average number of vehicles found in the Reflection Lakes Parking Lot during a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "210. Reflection Lakes Parking Lot". The number of vehicles found there is 19. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.14 and 9.15. First, in Table 9.14, the next-to-last column labeled, "Weekday N" shows that data from 4 days were used to make this estimate. The maximum number of days observed was 6, therefore this estimate is not as good as some others, but is better than those based on only 2 days. Also, in Table 9.15, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the J Reflection Lakes Parking Lot, R^2 is 0.93. This falls in the range that could be considered "excellent". Together, the N of 4 and R^2 of 0.93 should be taken as indications that this is probably a very good estimate of the number of vehicles that will be found in the Reflection Lakes Parking Lot between 10:00 and 4:00 during weekdays with nice weather.

Table 9.14. Average Hourly 'Snap-shot' Counts of Vehicles in Parking Lots: Observed Data and

Parking Lot Sites	Observed No. of Vehicles		Estimated Number of Vehicles				Week-	Week-
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather	day N	end N
209. WESTSIDE ROAD PARKING LOT	5	16	4	11	12	19	4	4
201. KAUTZ CREEK PARKING LOT	8	14	6	13	14	21	6	6
202. LONGMIRE PARKING LOT	52	65	48	62	65	79	6	6
208. COMET FALLS PARKING LOT	15	23	14	20	22	28	6	5
203. NARADA FALLS PARKING LOT	18	28	17	25	27	36	6	6
204. PARADISE VISITOR CENTER PARK. LOT	110	129	110	122	126	138	6	6
205. PARADISE INN PARKING LOT	230	381	218	335	365	482	6	6
210. REFLECTION LAKES PARKING LOT	8	29	6	19	22	35	4	4
206. GROVE OF THE PATRIARCHS PARK. LOT	14	20	14	19	20	25	6	6
211. BOX CANON PARKING LOT	12	21	11	17	18	23	4	4
212. OHANAPECOSH PARKING LOT	5	6	5	5	5	6	4	4
213. TIPSOO LAKE PARKING LOT	9	30	6	20	23	37	4	4
214. TIPSOO LAKE PULL OFFS	2	6	1	4	5	8	4	4
207. SUNRISE PARKING LOT	83	181	55	164	192	300	6	6

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday N's. Counts taken between 10:00 am and 4:00 pm.

**Table 9.15. Regression Model Parameters Underlying Parking Lot Use
Average Hourly 'Snap-shot' Counts**

TRAIL SITES	Week- day N	Week- end N	R ²	Regression Coefficient	Constant
209. WESTSIDE ROAD PARKING LOT	4	4	0.85	0.01	-6.88
201. KAUTZ CREEK PARKING LOT	6	6	0.73	0.01	-4.93
202. LONGMIRE PARKING LOT	6	6	0.39	0.02	26.27
208. COMET FALLS PARKING LOT	6	5	0.75	0.01	3.98
203. NARADA FALLS PARKING LOT	6	6	0.84	0.01	2.33
204. PARADISE VISITOR CENTER PARK. LOT	6	6	0.67	0.02	88.86
205. PARADISE INN PARKING LOT	6	6	0.97	0.14	26.91
210. REFLECTION LAKES PARKING LOT	4	4	0.93	0.01	-14.49
206. GROVE OF THE PATRIARCHS PARK. LOT	6	6	0.79	0.01	5.60
211. BOX CANON PARKING LOT	4	4	0.72	0.01	2.38
212. OHANAPECOSH PARKING LOT	4	4	0.26	0.00	3.82
213. TIPSOO LAKE PARKING LOT	4	4	0.90	0.02	-16.80
214. TIPSOO LAKE PULL OFFS	4	4	0.77	0.00	-4.15
207. SUNRISE PARKING LOT	6	6	0.96	0.22	-32.36

Models were also produced to predict the peak number of vehicles counted during any of the hourly snap-shot counts. Table 9.16 presents the peak number of vehicles that are expected to be present in each parking lot between 10:00 am and 4:00 p.m. on the four types of days described above. The parameters of the regression models that were used to produce Table 9.16 are shown in Table 9.17.

Interpreting Tables 9.16 and 9.17

The data of primary interest in this table are the estimates of peak hourly snap-shot counts in each parking lot. If interested in the peak number of vehicles found in the Reflection Lakes Parking Lot during a sunny weekday, we would look at the fourth column of data labeled "Weekday & nice weather", then would move down to the row labeled "210. Reflection Lakes Parking Lot". The number of visitors found there is 27. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.16 and 9.17. First, in Table 9.16, the next-to-last column labeled, "Weekday N" shows that data from 4 days were used to make this estimate. The maximum number of days observed was 6, therefore this estimate is not as good as some others, but is better than those based on only 2 days. Also, in Table 9.17, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the Reflection Lakes Parking Lot, R^2 is 0.90. This falls in the range that could be considered "excellent". Together, the N of 4 and R^2 of 0.90 should be taken as indications that this is probably a very good estimate of the peak number of vehicles that will be found in the Reflection Lakes Parking Lot during weekdays with nice weather.

Special care should be taken to note the asterisks next to many of the weekend peak estimates in this table. These indicate that the estimated vehicle counts are higher than the design capacities of the parking lots. In almost all cases this is currently a realistic situation because overflow parking is allowed in unofficial areas. In cases where the number is truly unrealistically high, it indicates that there is probably demand for the estimated number of parking spaces at peak times but that some parties are currently unable to find parking spaces.

Table 9.16. Peak Hourly 'Snap-shot' Counts of Vehicles in Parking Lots: Observed Data and

Parking Lot Sites	Observed No. of Vehicles		Estimated Number of Vehicles in Peak Hours				Week- day N	Week- end N
	Weekday Average	Weekend Average	Weekday & poor weather	Weekday & nice weather	Weekend & poor weather	Weekend & nice weather		
	209. WESTSIDE ROAD PARKING LOT	6	20	5	13	15	23	4	4
201. KAUTZ CREEK PARKING LOT	13	21	11	19	21	29	6	6
202. LONGMIRE PARKING LOT	64	83	59	78	83	103 *	6	6
208. COMET FALLS PARKING LOT	21	30	27	41	45 *	59 *	6	5
203. NARADA FALLS PARKING LOT	29	46	27	41	45	59	6	6
204. PARADISE VISITOR CENTER PARK. LOT	133	154	136	146	148 *	158 *	6	6
205. PARADISE INN PARKING LOT	287	468	269	414	452	596 *	6	6
210. REFLECTION LAKES PARKING LOT	12	42	11	27	32	48 *	4	4
206. GROVE OF THE PATRIARCHS PARK. LOT	21	27	20	25	26	31 *	6	6
211. BOX CANON PARKING LOT	17	29	17	23	25	32 *	4	4
212. OHANAPECOSH PARKING LOT	8	10	8	9	9	11	4	4
213. TIPSOO LAKE PARKING LOT	14	48	8	31	37	60 *	4	4
214. TIPSOO LAKE PULL OFFS	5	12	3	8	10	15	4	4
207. SUNRISE PARKING LOT	117	256	79	231	270 *	423 *	6	6

* estimated number is larger than design capacity of lot.

Notes: Number of cases used to produce the four estimates is the sum of weekend and weekday N's. Counts taken between 10:00 am and 4:00 pm.

**Table 9.17. Regression Model Parameters Underlying Parking Lot Use
Peak Hourly 'Snap-shot' Counts**

TRAIL SITES	Week-	Week-	R ²	Regression Coefficient	Constant
	day N	end N			
209. WESTSIDE ROAD PARKING LOT	4	4	0.91	0.01	-8.67
201. KAUTZ CREEK PARKING LOT	6	6	0.77	0.01	-2.48
202. LONGMIRE PARKING LOT	6	6	0.54	0.02	26.98
208. COMET FALLS PARKING LOT	6	5	0.79	0.01	7.29
203. NARADA FALLS PARKING LOT	6	6	0.77	0.02	3.46
204. PARADISE VISITOR CENTER PARK. LOT	6	6	0.29	0.01	120.33
205. PARADISE INN PARKING LOT	6	6	0.96	0.17	31.77
210. REFLECTION LAKES PARKING LOT	4	4	0.90	0.02	-16.47
206. GROVE OF THE PATRIARCHS PARK. LOT	6	6	0.83	0.01	12.22
211. BOX CANON PARKING LOT	4	4	0.70	0.01	5.49
212. OHANAPECOSH PARKING LOT	4	4	0.61	0.00	5.31
213. TIPSOO LAKE PARKING LOT	4	4	0.96	0.03	-28.60
214. TIPSOO LAKE PULL OFFS	4	4	0.89	0.01	-5.26
207. SUNRISE PARKING LOT	6	6	0.95	0.32	-44.34

Trail Use Estimates for Times When Parking Lots are Filled to Design Capacity

One of the management strategies being considered for altering visitation at MORA in the near future is the elimination of overflow parking. On busy days, many of the parking lots currently fill to design capacity quite early in the day and later-arriving visitors park along park roads or in other areas not formally designated for parking. The following analysis was conducted in order to predict use levels on trails when parking lots are filled to design capacity levels.

Data Sources

Independent Variable

Number of Vehicles Counted in Parking Lots

Peak 'snap-shot' count of the number of vehicles present in a parking lot for each day during the VDS. Separate daily peak counts for each of 11 parking lots that serve trails.

Dependent Variables

Number of Visitors Using Trails

1. Peak hourly count of people entering each trail for each day during the VDS.
2. Peak hourly count of two-way traffic for each trail for each day during the VDS.

All data were collected during the Visitor Distribution Survey of 1995. Counts were recorded at hourly intervals, from 10:00 am to 4:00 p.m. during the 12 observation days of the survey.

Regression Models

Two regression models were calculated for each trail site, one for each of the dependent variables listed above (daily peak in hourly entries and daily peak in hourly two-way counts). The independent variable was the peak vehicle count for the observed day. The models predicted daily peaks in use at each trail site based on the daily peak in the number of vehicles counted in the parking lot serving that trail. The parameters of each regression model, including the constant and coefficient, as well as the R^2 values are included in the tables of estimates that constitute the results of this section.

Limitations of the Data and Methods

Several factors affect the reliability of the estimates resulting from the methods used, and readers should be aware of these limitations. First, the regression equations used to make estimates for individual sites depend, at most, on 12 observation days, and a few sites were observed on as few as four days. The tables used to present results list the number of weekdays and weekend days that were used to make estimates. Readers should observe those numbers and use caution in assuming the accuracy of estimates based on small numbers of days.

Second, some sites have very low visitation rates. Estimates for such sites may be less reliable because random variation is likely to have a greater effect. For example, if one or two large parties of hikers visited Westside Road on weekdays that were observed, they could have a large and potentially misleading effect on the estimation of weekday visitors. Accordingly, more confidence can be placed in the estimations for busier sites than for those with low visitation rates.

Results

Tables 9.18 and 9.19 show estimates of peak trail use on days when parking lots fill to design capacity limits. In both tables data are listed in groups corresponding to the trail sites served by each parking lot. Each site name is preceded by the site number used in the VDS. Accurate descriptions of site locations can be found earlier in this report.

Table 9.18 presents estimates of the number of people who are expected to enter the trail during the peak hour of a day when the parking lot fills to design capacity limits. The parameters of the regression models that were used to produce the estimates are included in the table.

Interpreting Table 9.18

The data of primary interest in this table are the estimates of peak hourly entry counts for each trail on days when its respective parking area reaches design capacity. If interested in the peak hourly count of visitors entering the Kautz Creek Trail on a day when the Kautz Creek Parking Lot was filled to its design capacity (design capacities, in this case 35, are given in parentheses in the table), we would look at the third column of data labeled "Capacity Estimate" in bold, then would move down to the row labeled "126. Kautz Creek T." The number of visitors found there is 22. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.18. First, the fourth and fifth columns labeled, "Weekday N" and "Weekend N" show that data from a total of 7 days were used to make this estimate. The maximum number of days observed was 12, therefore this estimate is clearly based on fewer data points than some others. Also, we could look at the column labeled " R^2 ". Recall from earlier discussion that R^2 is another indicator that can be used to assess confidence in an estimate. For the Kautz Creek Trail, R^2 is 0.62. This falls in the range that could be considered "very good". Together, the N of 7 and R^2 of 0.62 should be taken as indications that this is probably a fair estimate of the number of visitors that will enter the Kautz Creek Trail in the peak hour of a day when the Kautz Creek Parking Lot fills to capacity.

In an unusual estimate, the peak entries for the site "120. Pet Loop T," are listed as 0. This simply means that observed entries at that site were so low that the regression model predicted an average of less than 1 person would enter. The precise estimate was 0.314.

Table 9.18. Peak Hourly Counts of People Entering Trails When Parking Lots Reach Design Capacity* : Observed Data and

Parking Lots and Trail Sites	Observed Peak No. of People Entering Trails		Capacity Estimate*	Week- Week- day end		Regression Model Parameters		
	Weekday Average	Weekend Average		N	N	R ²	Constant	Coeff.
204. PARADISE VISITOR CENTER PARK. LOT AND PARADISE INN PARKING LOT (606)								
110. DEAD HORSE T. @ NISQUALLY VISTA T.	36	41	47	6	6	0.42	-12.10	0.10
109. NISQUALLY VISTA T. @ DEAD HORSE T.	57	79	80	6	6	0.57	-4.42	0.14
111. T. TO ALTA VISTA FROM P. LOT/ROAD	48	112	106	6	6	0.80	-77.99	0.30
112. SKYLINE T. @ T. TO DEAD HORSE T.	146	256	253	6	6	0.83	-115.02	0.61
113. T. TO DEAD HORSE T. @ SKYLINE T.	29	73	58	5	4	0.70	-40.33	0.16
114. LAKES T.	10	11	12	4	6	0.34	-2.98	0.02
125. T. CLOSE TO PARADISE INN	106	100	143	2	2	0.53	-1.30	0.24
130. SKYLINE T. PAST "DANCE FLOOR"	104	198	166	4	4	0.65	-45.65	0.35
131. PEBBLE CREEK	44	76	66	4	4	0.80	-13.86	0.13
132. LAKES T. @ SKYLINE T.	5	9	7	4	4	0.79	-2.92	0.02
133. SKYLINE T. @ LAKES T.	7	18	14	4	4	0.77	-12.21	0.04
307. "DANCE FLOOR" *	13	30	24	4	4	0.72	-9.30	0.05
210. REFLECTION LAKES PARKING LOT (45)								
134. PINNACLE PEAK T.	14	31	32	4	4	0.32	7.31	0.55
135. T. IN FRONT OF REF. LAKES	15	36	39	4	4	0.81	4.39	0.78
136. REF. LAKES T. (W) @ WONDERLAND T.	7	20	19	4	4	0.45	5.01	0.31
137. WONDERLAND T. @ REF. LAKES T. (W)	5	4	5	4	4	0.01	4.08	0.01
138. REF. LAKES T. (E) @ WONDERLAND T.	6	13	14	4	4	0.58	2.49	0.26
139. WONDERLAND T. @ REF. LAKES T. (E)	5	6	6	4	4	0.06	4.29	0.04
209. WESTSIDE ROAD PARKING LOT (24)								
101. WESTSIDE ROAD	5	12	13	6	6	0.67	2.87	0.44
201. KAUTZ CREEK PARKING LOT (35)								
126. KAUTZ CREEK T.	8	20	22	4	3	0.62	2.65	0.55

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Table 9.18 (Continued). Peak Hourly Counts of People Entering Trails When Parking Lots Reach Design Capacity*
Observed Data and Estimates

Parking Lots and Trail Sites	Observed Peak No. of People Entering Trails		Capacity Estimate*	Week-Week-		Regression Model Parameters		
	Weekday Average	Weekend Average		day N	end N	R ²	Constant	Coeff.
<i>202. LONGMIRE PARKING LOT (85)</i>								
107. EAGLE PEAK T.	3	7	5	5	5	0.42	-1.21	0.08
102. T. OF SHADOWS	30	48	42	6	6	0.30	17.33	0.30
106. WONDERLAND T. @ RAMPART RIDGE T.	6	15	12	6	6	0.11	0.92	0.13
104. RAMPART RIDGE T. @ T. OF SHADOWS	8	11	11	6	6	0.17	3.19	0.09
105. RAMPART RIDGE T. @ WONDERLAND T.	6	10	9	6	6	0.22	0.49	0.10
<i>208. COMET FALLS PARKING LOT (26)</i>								
108. COMET FALLS T.	23	38	31	6	6	0.61	-6.70	1.44
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	8	11	9	4	4	0.28	-1.90	0.42
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	3	3	3	4	4	0.05	4.50	-0.06
129. VAN TRUMP PARK: TO T. END	9	24	15	4	4	0.84	-12.39	1.05
158. VAN TRUMP PARK: TO MILDRED POINT	3	10	6	4	4	0.74	-7.02	0.50
<i>203. NARADA FALLS PARKING LOT (67)</i>								
123. NARADA FALLS T.	132	230	295	6	6	0.67	35.88	3.88
<i>206. GROVE OF THE PATRIARCHS PARK. LOT (28)</i>								
115. T. ACROSS FROM P. LOT AT GROVE OF PATS	8	15	14	6	6	0.27	-1.41	0.54
116. GROVE OF THE PATRIARCHS	54	88	88	6	6	0.82	-33.17	4.34
<i>211. BOX CANON PARKING LOT (31)</i>								
141. BOX CANYON LOOP T.	65	98	97	4	4	0.34	36.39	1.94
<i>213. TIPSOO LAKE PARKING LOT AND PULL OFF (45)</i>								
143. NACHES PEAK T. @ UPPER TIPSOO L.	9	28	21	4	4	0.89	1.03	0.45
144. NACHES PEAK T. @ PACIFIC CREST T.	25	70	49	4	3	0.89	9.36	0.88
154. UPPER TIPSOO LAKE	5	21	14	3	4	0.16	7.29	0.16
190. TIPSOO LAKE T.*	12	33	24	4	4	0.69	6.98	0.39

**Table 9.18 (Continued). Peak Hourly Counts of People Entering Trails When Parking Lots Reach Design Capacity*
Observed Data and Estimates**

Parking Lots and Trail Sites	Observed Peak No. of People Entering Trails		Capacity Estimate*	Week-	Week-	Regression Model Parameters		
	Weekday Average	Weekend Average		day N	end N	R ²	Constant	Coeff.
207. SUNRISE PARKING LOT (240)								
117. RIM T. @ EMMONS VISTA T.	18	33	31	6	6	0.66	7.96	0.09
118. EMMONS VISTA T. @ RIM T.	21	31	31	6	6	0.54	6.79	0.10
119. RIM T. @ PET LOOP T.	4	17	15	6	6	0.88	-5.57	0.09
120. PET LOOP T.	0	5	0	2	2	0.03	3.74	-0.01
121. NATURE T.	51	128	115	6	6	0.94	-0.77	0.48
124. PET LOOP T. @ RIM T.	3	9	25	2	2	0.85	-8.60	0.14
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	7	20	14	4	4	0.82	-2.59	0.07
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	7	31	20	4	4	0.83	-3.90	0.10
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	10	48	31	4	4	0.92	-12.89	0.18
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	15	51	32	4	3	0.65	-3.47	0.15

* Data for site 307 and 190 are based on 'snap-shot' counts and represent the highest hourly count
Note: Maxium capacity for each lot is shown in parentheses.

Table 9.19 is very similar to Table 9.18, but describes the total number of visitors entering *and leaving* the trail at each observation point.

Interpreting Table 9.19

The data of primary interest in this table are the estimates of peak hourly entry+exit counts for each trail on days when its respective parking area reaches design capacity. If interested in the peak hourly count of visitors entering and leaving the Kautz Creek Trail when the Kautz Creek Parking Lot was filled to its design capacity (design capacities, in this case 35, are given in parentheses in the table), we would look at the third column of data labeled "Capacity Estimate" in bold, then would move down to the row labeled "126. Kautz Creek T." The number of visitors found there is 41. In order to assess the confidence that should be placed in this estimate, we could look at other columns of Table 9.19. First, the fourth and fifth columns labeled, "Weekday N" and "Weekend N" show that data from a total of 7 days were used to make this estimate. The maximum number of days observed was 12, therefore this estimate is clearly based on fewer data points than some others. Also, we could look at the column labeled "R²". Recall from earlier discussion that R² is another indicator that can be used to assess confidence in an estimate. For the Kautz Creek Trail, R² is 0.73. This falls in the range that could be considered "very good". Together, the N of 7 and R² of 0.73 should be taken as indications that this is probably a fair estimate of the peak number of visitors that will enter and leave the Kautz Creek Trail in the peak hour of a day when the Kautz Creek Parking Lot fills to capacity.

**Table 9.19. Peak Hourly Counts of People Entering and Leaving Trails When Parking Lots Reach Design Capacity* :
Observed Data and Estimates**

Parking Lots and Trail Sites	Observed Peak No. of People Passing on Trails		Capacity Estimate*	Week- day N	Week- end N	Regression Model Parameters		
	Weekday Average	Weekend Average				R ²	Constant	Coeff.
204. PARADISE VISITOR CENTER PARK. LOT AND PARADISE INN PARKING LOT (606)								
110. DEAD HORSE T. @ NISQUALLY VISTA T.	53	70	78	6	6	0.51	-36.20	0.19
109. NISQUALLY VISTA T. @ DEAD HORSE T.	110	157	159	6	6	0.63	-22.65	0.30
111. T. TO ALTA VISTA FROM P. LOT/ROAD	104	233	221	6	6	0.77	-150.99	0.61
112. SKYLINE T. @ T. TO DEAD HORSE T.	271	506	493	6	6	0.88	-249.98	1.23
113. T. TO DEAD HORSE T. @ SKYLINE T.	65	146	119	5	4	0.83	-68.42	0.31
114. LAKES T.	18	22	23	4	6	0.51	-3.62	0.04
125. T. CLOSE TO PARADISE INN	172	217	359	2	2	0.85	-227.35	0.97
130. SKYLINE T. PAST "DANCE FLOOR"	216	390	335	4	4	0.84	-123.60	0.76
131. PEBBLE CREEK	85	127	114	4	4	0.73	2.24	0.18
132. LAKES T. @ SKYLINE T.	11	19	16	4	4	0.56	-5.07	0.04
133. SKYLINE T. @ LAKES T.	38	81	67	4	4	0.85	-41.57	0.18
210. REFLECTION LAKES PARKING LOT (45)								
134. PINNACLE PEAK T.	27	62	64	4	4	0.41	14.30	1.11
135. T. IN FRONT OF REF. LAKES	28	66	72	4	4	0.78	9.65	1.39
136. REF. LAKES T. (W) @ WONDERLAND T.	15	36	36	4	4	0.68	8.86	0.61
137. WONDERLAND T. @ REF. LAKES T. (W)	9	11	12	4	4	0.34	6.51	0.13
138. REF. LAKES T. (E) @ WONDERLAND T.	9	23	23	4	4	0.85	4.27	0.43
139. WONDERLAND T. @ REF. LAKES T. (E)	8	11	11	4	4	0.18	5.89	0.12
209. WESTSIDE ROAD PARKING LOT (24)								
101. WESTSIDE ROAD	9	21	22	6	6	0.63	4.41	0.75
201. KAUTZ CREEK PARKING LOT (35)								
126. KAUTZ CREEK T.	16	37	41	4	3	0.73	4.50	1.05

Table 9.19 (Continued). Peak Hourly Counts of People Entering and Leaving Trails When Parking Lots Reach Design Capacity*
Observed Data and Estimates

Parking Lots and Trail Sites	Observed Peak No. of People Passing on Trails		Capacity Estimate*	Week- day N	Week- end N	Regression Model Parameters		
	Weekday Average	Weekend Average				R ²	Constant	Coeff.
202. LONGMIRE PARKING LOT (85)								
107. EAGLE PEAK T.	6	12	10	5	5	0.26	-0.33	0.12
102. T. OF SHADOWS	49	90	78	6	6	0.33	19.27	0.69
106. WONDERLAND T. @ RAMPART RIDGE T.	11	25	20	6	6	0.07	7.70	0.14
104. RAMPART RIDGE T. @ T. OF SHADOWS	13	19	18	6	6	0.36	2.48	0.18
105. RAMPART RIDGE T. @ WONDERLAND T.	11	19	16	6	6	0.28	6.26	0.12
208. COMET FALLS PARKING LOT (26)								
108. COMET FALLS T.	46	72	60	6	6	0.70	-4.48	2.48
127. WONDERLAND T. @ T. TO VAN TRUMP PARK	16	22	18	4	4	0.40	6.56	0.46
128. T. TO VAN TRUMP PARK @ WONDERLAND T.	3	5	4	4	4	0.05	2.40	0.05
129. VAN TRUMP PARK:TO T. END	15	41	26	4	4	0.70	-20.09	1.76
158. VAN TRUMP PARK:TO MILDRED POINT	6	18	11	4	4	0.76	-10.88	0.84
203. NARADA FALLS PARKING LOT (67)								
123. NARADA FALLS T.	281	455	593	6	6	0.74	82.30	7.62
206. GROVE OF THE PATRIARCHS PARK. LOT (28)								
115. T. ACROSS FROM P. LOT AT GROVE OF PATS	21	30	29	6	6	0.16	3.46	0.91
116. GROVE OF THE PATRIARCHS	101	163	164	6	6	0.84	-56.31	7.87
211. BOX CANON PARKING LOT (31)								
141. BOX CANYON LOOP T.	130	188	188	4	4	0.37	73.56	3.69
213. TIPSOO LAKE PARKING LOT AND PULL OFF (45)								
143. NACHES PEAK T. @ UPPER TIPSOO L.	26	76	58	4	4	0.88	3.52	1.22
144. NACHES PEAK T. @ PACIFIC CREST T.	38	112	77	4	3	0.99	11.34	1.47
154. UPPER TIPSOO LAKE	10	33	24	3	4	0.50	7.97	0.36

**Table 9.19 (Continued). Peak Hourly Counts of People Entering and Leaving Trails When Parking Lots Reach Design Capacity*
Observed Data and Estimates**

Parking Lots and Trail Sites	Observed Peak No. of People Passing on Trails		Capacity Estimate*	Week-	Week-	Regression Model Parameters		
	Weekday Average	Weekend Average		day N	end N	R ²	Constant	Coeff.
207. SUNRISE PARKING LOT (240)								
117. RIM T. @ EMMONS VISTA T.	39	76	71	6	6	0.69	10.87	0.25
118. EMMONS VISTA T. @ RIM T.	37	55	56	6	6	0.72	11.24	0.19
119. RIM T. @ PET LOOP T.	21	68	61	6	6	0.90	-14.40	0.31
120. PET LOOP T.	2	11	16	2	2	0.24	-0.50	0.07
121. NATURE T.	93	229	209	6	6	0.95	-6.08	0.89
124. PET LOOP T. @ RIM T.	4	14	24	2	2	0.51	-3.17	0.11
145. WONDERLAND T. @ FRMNT./BURR./SUN. CAMP	15	40	29	4	4	0.87	-5.76	0.14
146. MT. FREEMONT T. @ BURR./WOND./SUN. CAMP	15	61	40	4	4	0.82	-6.64	0.20
147. BURROUGHS MT. T. @ WOND./FRMNT./SUN. CAMP	17	75	49	4	4	0.84	-17.19	0.28
156. SUNRISE CAMP T. @ BURR./WOND./FRMNT.	19	63	41	4	3	0.70	-4.16	0.19

Note: Maximum capacity for each lot is shown in parentheses.

Conclusion

The findings presented above provide important information concerning the number of people who would enter trails or use facilities and parking lots, based on different weather and day of the week conditions. By using these estimates carefully, keeping in mind the limitations of both the data on which they are based and the methods by which they are derived, readers of this document may gain increased understanding of the dynamics of visitor use in MORA.

X. FUTURE OPPORTUNITIES IN THE ANALYSIS AND INTERPRETATION OF THE PRESENT DATA

This report by no means represents all possible analyses of the data collected in the VDS. Many other opportunities remain to reexamine the data, combine them with existing data from other reports, or design research to supplement them and aid in their interpretation.

One of the simplest possibilities is to summarize and examine the data concerning backpacker entries and exits across all trail sites. The raw counts of backpackers are included in the report but are not summarized separately from total trail counts. Such counts could give a picture of when and where backpackers are entering the Wilderness areas of MORA.

Similarly, summary data for various vehicle types in the parking lots may be useful. For example, RVs take up relatively large amounts of parking space and may contribute to congestion on roads. Knowing the places where RVs tend to park may be useful in assessing their impact on other visitors.

The interpretation of parking lot counts might also be made more sophisticated by combining VDS data with parking duration information (some such information is available from the 1995 BRW transportation study) to estimate the total number of vehicles using each lot. Assessment of the possible effects of policy changes such as institution of short-term parking areas could also be done by combining VDS parking lot counts with data from other sources.

The interpretation of trail counts might also grow in sophistication. Trail use is often measured in encounters rather than entry and exit counts. Future research could be designed to assess the relationship between the type of counts made in the VDS and the number of encounters experienced by hikers on the trail. If such relationships were robust, the present counts could be translated to estimated encounters for comparison with data in which only encounters were recorded.

Sophisticated models could also be developed relating the substitution data from the 1995 Gate Survey to the estimates of trail use and parking demand found by the VDS. In the Gate Survey, visitors were asked to list acceptable substitutes for visiting the Paradise area (substitutes inside and outside MORA were listed separately). Based on the existing models of visitor use developed in this report, estimates could be made of the number of visitors who would be displaced to other areas of the park, the number of times a year such displacement was likely to occur, and the capability of those other areas to absorb the increase in visitor use. Such models could prove very helpful in evaluating the impact of various options for management action.

Finally, graphical representation and analysis of these data using GIS or other mapping programs could yield insights into the MORA visitor use that are difficult or impossible to make using numbers or charts. For example, the number of visitors passing all the trail sites in Paradise meadows could be readily presented and could be redrawn to show the changes from 11:00 to 4:00 on observed weekdays or weekends. Such representations of the current data would help us to better see and understand MORA as a system of interacting visitor activities and visitor use.

Appendix A: Data Collection Supervisor Informational Handouts

MT. RAINIER VISITOR DISTRIBUTION SURVEY
- Policies & Procedures -

Supervisors, PLEASE READ this packet before Friday night, and then EDIT

- TRAINING (Friday, 7-8PM) -

Introductions

- Supervisor(s)
- Cook(s)
- Observers

Review observer clipboards.

- Check that observers have complete clipboard packet (clear plastic sheet, survey purpose sheet, FAQs sheet, example data collection sheets, data collection sheet instructions sheet, data collection sheets, sheet of scratch paper, thermal emergency sheet, evaluation forms, map of park)

Explain purpose of the survey

- Snapshot

Purpose of the Visitor Distribution Survey

The National Park Service has a mandate that states that all National Parks must strive to preserve the resources in their Parks and also provide enjoyment to the public.

Visitation at Mt. Rainier National Park has grown steadily over the last decade and this trend is expected to continue. The management at Mt. Rainier is working on a management plan so that they can meet the mandate's goals of protecting resources and providing enjoyment to the public as the use of the Park increases.

The basic goal of the surveys being taken at Mt. Rainier this summer is to begin the process of determining the social carrying capacity of different areas of the Park. Social carrying capacity refers to the number of people that can be in an area without the people in the area feeling like it is crowded. For example: How many people can be on a trail before you feel like the presence of other people detracted from your experience?

This survey is not looking at how many people can actually fit into an area or the physical carrying capacity.

In order to determine the social carrying capacity of different areas of the Park, we are conducting two types of surveys. The first is the Visitor Experience Survey. This survey is being conducted throughout the summer including the time periods when the Visitor Distribution Survey is executed. The Visitor Experience Survey is trying to determine three basic things:

- What do people think of their experience now?
- What level of crowding do people find unacceptable?
- Who are the users of the Park? For example: Are they first time users? Are they from Washington? Are they U.S. citizens? Are they bringing their children?

The Visitor Distribution Survey, that you are a part of, is designed so that we can correlate the responses to the Visitor Experience Survey with real numbers. For example, if someone is interviewed and says that they found one of the trails to be crowded. We can then look at the numbers collected from the Visitor Distribution Survey to find out how many people were probably on that trail at the time of day that the respondent was on the trail.

This is the reason why we are collecting data throughout the day. Most of the people who are using the Park are there for only one day and the use of different areas varies greatly, depending on the time of day.

The second reason for collecting numerical data is so that if the Park decides to limit or change the use of one area, they know how many people will be affected. The management needs to know how many people are already in areas that are similar to the ones where they are limiting use so that they can suggest other areas where people can go to have a similar experience without crowding.

The parking lot counts are designed to provide a general idea of how many people are in an area. Since the Park is too big for us to count every trail, we are counting the cars to get a good idea of the total number of people in an area. In some areas where we are counting on trails, parking lot counts let us know how many people actually use the trails vs. just using the parking lots as a rest area.

To summarize: the park will use the information collected to help them make decisions about managing the Park's resources. This information will be useful in planning future Park management strategies such as implementing a transportation system or helping them decide how to limit access to certain areas of the Park. The management of the Park wants to distribute people around the Park in a way that meets their mandate of protecting resources and providing enjoyment. They do not wish to make these decisions blindly.

- Review FAQs

Frequently Asked Questions

What are you doing here?

I am helping to conduct a survey for the National Park Service.

Why?

A National Park Service Planning Team at the Park is working on a management plan for Mt. Rainier. They need to know how many people visit each site in the park in order to help them plan. I'm one of the observers who is counting people.

Are they going to limit the number of people allowed into the Park?

That is unlikely. But, the Park may limit the number of people allowed in certain areas or encourage people to visit areas that are lightly visited. The ultimate goal is to preserve recreational activities and conserve the resources here.

Where is _____?

Consult map. If that is not enough information for the person, let them know where the nearest visitor center is.

Who are those people asking questions?

It's actually another phase of this project. They are conducting a survey to determine what visitors are expecting when they come here and how the distribution of people at different sites affects their experience.

Review schedule

Schedule

Time will be an important factor in this project - especially in the mornings and during the day while you are counting. Please make sure you are on time for training sessions and for your van's departure in the morning.

The following is a tentative schedule. I need to err on the side of getting you to your counting spots early - especially on the first day.

Thanks.

Friday August 11

6:00 pm - 7:00 pm Check in to campsites
Dinner will be available

7:00 pm - 8:00 pm Training

Saturday August 12 - Tuesday August 15

7:00 am - 8:00 am Breakfast is served

8:00 am - 8:15 am Pick up box lunch

8:15 am - 8:30 am Morning meeting

8:30 am Leave campsites for counting areas

10:00 am Begin counting

4:00 pm End counting

6:00 pm - 7:00 pm Dinner is served*

* On Tuesday August 15, you will be able to pick up a box dinner before you leave.

- Emphasize importance of being on time to breakfast and van departure

Explain data collection sheets

- Review ATTACHED example data collection sheets (trails, visitor centers, parking lots)
- Review data collection sheet instructions

Data Collection Sheet Instructions

Please take as many notes as possible. We will gain valuable information about each of the sites from both your candid observations and your accurate counts.

Visitor Center and Trail Sheets

People Count any adult and any children that can walk on their own. Children in strollers or being carried do not count. Children in wheelchairs do count.

Do not count Rangers, Park employees or Park volunteers. Do count the people who they are with. Make notes about large groups of people and whether they are with a Ranger or other Park personnel.

BKPK In the Notes Section - please tell us how many people out of the total counted going into or out of the trail are backpackers.

Parking Lot Counts

Cars etc... Count any vehicle that fits into a regular parking spot EXCEPT vehicles that have a government plate and motorcycles.

A pick-up with a camper attachment counts as a car etc... NOT an RV.

RVs Count any vehicle that does not fit into a regular parking spot EXCEPT buses and vehicles that have a government plate.

Buses Count all school and commercial buses.

Gov/PA Count all vehicles that have a government plate

Mr. Cyo Count all motorcycles

- Encourage observers to take notes. Anything they observe could be important. They will have space on their sheet for notes and also blank paper for notes.
- Emphasize importance of counting accurately!
- Note that observers' assigned locations are on their data collection sheets. If they have questions about their locations they should ask their supervisor later.

Breaks

Each trail observer should get a half hour break every day - sometime between 11:00 and 3:00. [*Supervisors can either arrange to give them a break themselves or arrange for people counting parking lots or visitor centers to give breaks to the trail people. If you have a parking lot person giving people breaks - make sure they get a break also.*]

Meals (*note that the park rules should be respected)

- Note location of eating area
- Explain where to clean own dishes
- Note box for clean dishes at main camp
- Ask observers to respect the cook's area and to keep it clean of dishes
- Remind observers of the peskiness of rodents/critters if food is left out

Safety (*note that park rules should be respected)

- Note location of fire extinguishers: van(s) and camp
- Note location and contents of first aid kit
- Review thermal emergency sheet

HOW TO RECOGNIZE, MANAGE, OR PREVENT THERMAL EMERGENCIES

HYPOTHERMIA (Heat Loss)

WHAT IS IT?

Cooling of body temp. causing pooling of blood leading to shock!

WHAT DOES IT LOOK LIKE?

- Stage 1 - shivering 98.6 degrees to 93 degrees
- Stage 2 - gradual loss of thinking ability
- Stage 3 - loss of muscle control, rigidity and staggering below 93 degrees
- Stage 4 - unconsciousness below 86 degrees

WHAT CAN I DO?

- remove wet clothing
- remove from cold
- no hot drinks unless stage 1 is mild (hot drinks with sugar help the body turn the heat back on if temp is not too low)
- DO NOT ADD HEAT unless mild or over 1 hour away from a hospital
- add hot packs to neck, head, groin, armpits (if heating, KEEP WATCH on temp)
- handle person gently
- CPR if shock is severe

HOW CAN IT BE AVOIDED?

- avoid exposure to wet and cold: water/rain/wind
- multiple clothing layers... wear a hat and shell!!
- warm food and drink
- avoid alcohol
- watch heavy work

REMINDERS:

- The older and younger age groups (<22, >55) are particularly susceptible!
- The best prevention will be checking on eachother during break switches and reminding eachother of the need to watch your temp!
- Don't act like the cold doesn't bother you if it does! SPEAK UP if you're cold! We'll help!

HYPERTHERMIA (Heat Exhaustion)

WHAT IS IT?

overheating leading to loss of fluid and blood vessel dilation causing shock!

WHAT DOES IT LOOK LIKE?

- pale skin
- sweating
- collapse

WHAT CAN I DO?

- cool (DON'T chill) at least one half to one full hour!
- give fluids if alert (Water or electrolyte fluids)
- Laying down is better than sitting up which is better than standing
- If severe, treat as shock:
 - raise the feet above the heart level
 - prevent loss of heat (i.e. don't chill)
 - keep calm
 - give Oxygen if available
 - watch for change

HOW CAN IT BE AVOIDED?

- avoid overexposure to sun
- avoid heavy work
- drink fluids
- dress appropriately (light clothing prevents moisture loss!)
- wear sunblock

REMINDERS:

- The older and younger age groups (<22, >55) are particularly susceptible!
- The best prevention will be checking on eachother during break switches and reminding eachother of the need to watch your temp!
- Don't act like the heat doesn't bother you if it does! SPEAK UP if you're hot! We'll help!

AT THE TRAILHEADS, PARKING LOTS AND VISITOR CENTERS, PREVENTION OF HYPOTHERMIA AND HEAT EXHAUSTION WILL BE OUR BEST BET FOR AN ENJOYABLE DAY! TREATMENT OF SEVERE THERMAL EMERGENCIES SHOULD BE LEFT TO PROFESSIONALS! YOUR MOST IMPORTANT JOB WILL BE RECOGNITION IN THE CASE OF AN EMERGENCY... IF YOU NOTICE SYMPTOMS IN YOUR COWORKERS OR YOURSELF, CONTACT A SUPERVISOR!

- Talk about water... ask before you're thirsty if you are low on H₂O!
- Review when to stop if weather is bad (including too hot)

If the conditions are bad but you can move to a safe place and still count effectively, do that! But also note when you moved and where you moved to and be sure to return to the original position as soon as conditions allow...
If the conditions are bad and a safe counting place IS NOT available, stay in original position until weather becomes too bad, seek safe shelter noting time of absence, but be sure to return to original position as soon as conditions allow

- Note who to contact when in danger (always try to contact supervisor)

Nearest Ranger or 911 at Nearest Pay Phone (note location)

Remind observers not to take unnecessary risks. The survey is important, but the health and safety of the observers and staff is MORE important.

??? QUESTIONS ???

- SPECIAL NOTES FOR SUPERVISORS -

Management Strategies

Don't assume anything. Tell people exactly what you expect. In addition, don't assume that they will tell you if there's a problem. Ask people if they have any questions. Ask them how things are going. Ask them what's been happening there. This accomplishes several things:

- It gives them a chance to talk to someone when they've been sitting around counting for several hours.
- It helps you get a picture of what's happening on the trails.
- It should help you see if they are filling out the paper work correctly.
- It should help you develop rapport with the observers.

Most of these people are vastly overqualified for this work. Let them know they're doing a great job and thank them for it. There's not much more we can do but we should try to reinforce how important they are to the project. Any ideas you have for making the project fun as well as productive should be implemented.

We're dealing with an interesting situation here in that we are supervising both volunteers and paid observers. I tend to treat volunteers as if they were being paid to do the job. They must do the job that they volunteered to do.

Discipline Problems

Minor problems like filling the paperwork out wrong or showing up late in the morning for the van can be handled by the Supervisors. It's best to handle these things in a one-to-one meeting. Explain what they are doing wrong, ask if they understand, ask if they would like additional help.

Major problems like finding someone missing from their post or someone being obnoxious or rude to you or other volunteers should be communicated to me and then we can decide how to proceed. Again, you don't want to confront the person in front of a group.

If you have any questions about how to handle something, please ask me.

Listening

Listening is much more important than talking in most management situations. If someone is telling you about something that they think should be different about the project and you agree and it's easy to implement, accommodate them. If someone gives you an idea that is difficult to implement or you disagree with, find out why they're suggesting it. What is the problem they're trying to solve? Then, tell them you'll talk it over with me and the other supervisors and you'll get back to them. Then, we can talk it over and one of us can tell them what we decided and why.

I think we should be open to all suggestions. Even if we aren't able to implement a suggestion during this session, it may help us in late August. Also, it will really hurt morale if people think we aren't listening to them. It can really help morale if people think we are listening & noting suggestions.

OUR GOAL SHOULD BE TO KEEP THE OBSERVERS HAPPY

Supervisors should have or obtain detailed maps of their area, noting where their observers are placed (or where they moved to in noted conditions)

Again, ATTACHED are sample forms for trail, visitor center and parking lot counting. We will be collecting the forms every night. Our main goal is to get data that we can use. You can help by making sure the observers are using their data collection sheets properly. When you give someone a break, take the time to look at their forms critically - as if YOU were going to be the person doing data entry. When you get back to the campsite at the end of the day, please make sure you have everyone's form for that day. Also, check each form to make sure it is complete and legible. Pretend again that YOU will be the one who has to do the data entry. If you have any questions about the data on the form, ask the person right away.

IF A FORM IS TOO MESSY TO READ, PLEASE DO IT OVER

You will also have sheets for Supervisor's Notes. Please fill out one daily.

Before you leave Tuesday night, be sure to collect the observer evaluations! Also be sure to collect paid worker time sheets and VIP Group Signup sheets (noting volunteer groups such as the Boeing Bluebells).

- SAFETY for SUPERVISORS -

Please know your emergency resources well BEFORE an emergency

- Review the contents of the first aid kit YOU will be using. If time allows, familiarize yourself with Mountaineering First Aid (a copy is available in each camp). Though you can learn a lot from this book, please actually perform **ONLY FIRST AID YOU ARE QUALIFIED TO PERFORM**. Your First Aid kit is only as good as the skills of the person using it... **HELP** should be sought for **ALL** serious emergencies!
- Review the thermal emergencies sheet in this packet. Please make sure the people assigned to you know these symptoms and what they should do. **YOU** may need their help!
- Each van and base camp will be equipped with a first aid kit and a fire extinguisher. Be sure that you, the cook, and the observers know where to find them.

- BACK-UP PERSONNEL -

I have hired an extra person who will be staying at Cougar Rock. In addition, we can use people from the Visitor Experience Survey to fill in if our other options are exhausted.

Plan A: If someone from your crew leaves, we will replace them with the extra person who is staying at Cougar Rock. Call me to arrange the replacement.

Plan B: If an additional person leaves, we will replace them with a person from the VES:

Sunday: Karen Webster 569-2029

Monday: Richeile Harris 569-2029

Tuesday: Brian Zweibel 494-2098

Try to get a hold of Ann first. If you need to call one of these people to fill your staff, however, call them and arrange for them to work with you and then leave a message on the voice mail.

Plan C: I also have three people hired as alternates in Seattle. We will use these people as needed.

Again, try to get a hold of Ann first, but if you need to call these people on your own, please do and then leave a message on the voice mail.

Anna & Henry Collier 228-8605

- COMMUNICATION & TRANSPORTATION -

EMERGENCY 911

US WEST Pay Telephones (\$1 unlimited time anywhere in WA):

White River Entrance.....(360) 569-7772
White River Campground.....(360) 663-7771
Sunrise Bathrooms.....(360)
Longmire.....(360) 569-8879
Cougar Rock.....(360) 569-8999
or (360) 569-884(2 or 7 ?)
Alta Crystal Resort.....(360) 663-2500

OTHER Pay Telephones

Ohannapecoh.....(360) 494-5900
Enumclaw Ranger Station.....(360) 825-6585
Main # for Park.....(360) 569-2211
Ranger Stations at these extensions:

Ohannapecoh River Ranger Station: x 2352, Ed Smith
White River Ranger Station: x 2356, Jeff Wilson
Cougar Rock Ranger Station: x 2395, Ford Metise

VOICE MAIL FOR CENTRAL INFO

TO LEAVE MESSAGE: (206) 685-9150

TO CHECK MESSAGES: (206) 543-2121, Box # 59150, other #, 94303872

33 to skip messages

DO NOT ERASE OR ARCHIVE MESSAGES

PLEASE LEAVE DATE AND TIME OF CALL

Check whether there is construction in your area and, if possible, inform your observers of construction that may delay their arrival. Time estimate sheets for the Park are available at the Visitor Centers. Remember to obtain a gas credit card from Ann as soon as possible. If observers must be compensated for supplemental transport, offer the credit card FOR THE AMOUNT OF GAS USED.



As the nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environment and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The department assesses our energy and mineral resources and works to ensure that their development is in the best interest of all our people. The department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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