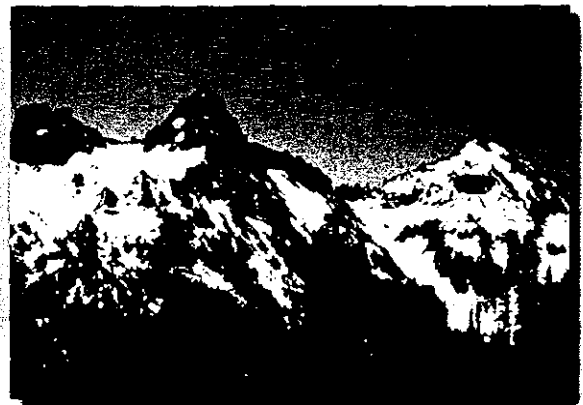


105/0-340

FINAL REPORT
Visitor Carrying Capacity Analysis



MT. RAINIER
National Park • Washington

United States Department of the Interior
National Park Service
Denver Service Center

Prepared By
BRW, Inc.

July 1999

PLEASE RETURN TO:

**TECHNICAL INFORMATION CENTER
DENVER SERVICE CENTER
NATIONAL PARK SERVICE**

ADDENDUM

Modification to Capacity Estimates

Changes have been made in the standards for encounters on the high-use and moderate use climbing routes on Mount Rainier. New methods of determining the likely encounter rates for day-use and overnight climbers also have been developed. These modifications to the original carrying capacity methodology have changed the estimated carrying capacity of the Paradise and White River activity areas. New capacity tables for these areas are attached. These pages should REPLACE the corresponding pages in the Trailhead/Activity Areas section of the Visitor Carrying Capacity Analysis.

A memo documenting the new encounter rates, which treat each of the major climbing routes as single management units, and the method used to estimate the resulting capacity of the routes also is attached. This memo MODIFIES the material in the Methodology section of the Carrying Capacity Analysis.

Paradise (Map #7, #8) - Total Visitation Capacity

MORACAPY2-10 XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Paradise	Lakes	Semi	Loop	5.00	37.50	7.50	37.50	0.40	15.00	24.00	20.00
4th Crossing	Lakes	Semi	Loop	5.00	37.50	7.50	37.50	0.10	3.75	6.00	2.50
Paradise	Paradise Glacier	Semi	In-Out	3.00	22.50	3.75	11.25	0.80	9.00	24.00	16.00
4th Crossing	Paradise Glacier	Semi	In-Out	3.00	22.50	3.75	11.25	0.20	2.25	6.00	4.00
Paradise	High Lakes	Semi	In-Out/Through	0.50	3.75	5.77	2.88	0.50	1.44	23.08	2.50
4th Crossing	High Lakes	Semi	In-Out/Through	0.50	3.75	5.77	2.88	0.25	0.72	11.54	2.50
TOTAL WILDERNESS DAY USE									32.16	84.62	47.50

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
ADIS	HIGH USE CLIMBING	GLACIER	DISAPPOINTMENT CLEAVER	Paradise	NA	NA	22.75	NA	21.05	Incl in Ingraham	0.00	0.00	12.00
AING	HIGH USE CLIMBING	GLACIER	INGRAHAM FLATS	Paradise	NA	NA	22.75	NA	21.05	60.67	182.00	36.00	1135.00
AMLI	HIGH USE CLIMBING	GLACIER	MUIR SNOWFIELD	Paradise	NA	NA	62.50	NA	21.05	130.67	392.00	36.00	737.00
APBL	HIGH USE CLIMBING	BACKCOUNTRY	PEBBLE CREEK	Paradise	NA	NA	62.50	NA	21.05	Incl in Muir	Incl in Muir		
AKFF	MOD. USE CLIMBING	BACKCOUNTRY	KAUTZ/FUHER ROUTE	Paradise	NA	NA	9.38	NA	NA	25.00	75.00	45.00	1120.00
ACOW	PRIMITIVE	BACKCOUNTRY	COWLITZ ALPINE	Paradise	1.00	1246.26	0.25	285.66	1142.65	2.00	6.00		
ACOG	PRISTINE	GLACIER	COWLITZ GLACIER	Paradise	1.00	1419.57	0.13	285.66	2285.31	2.00	6.00		
AMUE	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR EAST	Paradise	1.00	88.16	0.13	285.66	2285.31	2.00	6.00		
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	Paradise	1.00	125.76	0.13	285.66	2285.31	2.00	6.00		
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	Paradise	1.00	53.46	0.13	285.66	2285.31	2.00	6.00		
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1.00	526.24	0.13	285.66	2285.31	2.00	6.00	10.00	320.00
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1.00	23.24	0.13	285.66	2285.31	2.00	6.00		
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1.00	155.89	0.13	285.66	2285.31	2.00	6.00		
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	Paradise	5.00	16.85	0.13	42.85	342.84	2.00	6.00		
ACTH			THUMB ROCK	Paradise							0.00	6.00	199.00
ACCH			CAMP HAZARD	Paradise							0.00	30.00	
ASUM	HIGH USE CLIMBING	GLACIER	SUMMIT	Paradise/Wmt Riv	1.00	NA	See Muir Snowfield	NA	21.05	NA	NA	0.00	249.00
TOTAL										234	703.00	163	3772

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCCM			Camp Muir	Paradise					110	6,848
TOTAL									110	

Front Country Trails

	Capacity - PAOT	Capacity - Persons per Day (2.5 Turnover Per Day)	Estimated Daily Use	notes:
Alta Vista	223	559	506.00	1995 "PAOT Reduced for all "upper loop" trails and the Skyline trail to reflect "semiwilderness" character
Avalanche Lily	98	244	865.00	1995
Deadhorse Creek	292	731	232.00	1995
Fourth Crossing	37	92	75.00	Park
Glacier Vista	20	51	150.00	Park
Golden Gate	102	254	150.00	Park
Guide House	5	1,248	600.00	BRW est
High Skyline	81	203	298.00	Park
Lower Lakes	134	335	25.00	Park
Moraine	20	51	25.00	Park
Nisqually Vista	219	548	365.00	1995
Pebble Creek	73	183	222.00	1995
Skyline	731	1,828	1430.00	1995
Waterfall	65	163	100.00	Park
TOTAL	2,101	5,240	5,043	Daily Capacity Does not include Guidehouse Trail, assumed to be a feeder to all other trails

Note: Visitors may use multiple trails

Paradise (Map #7, #8) - Total Visitation Capacity (Continued)

Buildings/Facilities

	Units	Type	Factor	PAOT	Persons/Day
Jackson Visitor Center		Park Estimated		350	1,474 1.9 hours
Picnic Area	82.00	Tables	3.00 persons/table	246	615 2.5 turns per table
Paradise Inn	129.00	Rooms	3.00 persons/room	387	387 Note: most rooms vacant at max. area occupancy
Paradise Inn - Lounge	432.00	SF	28.75 SF/Person	15	36 2.5 turns per table
Gift Shop/Snack Bar	2200.00	SF	28.75 SF/Person	77	1224 30 minute avg. stay
Paradise Inn Lobby	5968.00	SF	69.00 SF/Person	86	1384 30 minute avg. stay
Guide House Sales	1943.00	SF	38.00 SF/Person	51	816 30 minute avg. stay
Guide House Restrooms	738.00	SF	46.00 SF/Person	16	513
Ranger Station	72.00	SF	17.00 SF/Person	4	68
Total				884	5,287 Note: Each visitor will use multiple areas

Summary

	PAOT	Persons Per Day	Notes:
Wilderness Trails - Day Users	32	95	
Cross Country Zones - Day Users	430	Part of Front Country Trails	
Cross Country Zones - Overnight	163	Part of Front Country Trails	
Trailside Camps - Overnight	110	Part of Front Country Trails	
Front Country Trails	2,101	5,240 Assumes turnover of 2.5 times, per 1993 Study	
Facilities/Buildings	884	2,667 Assumes 33 percent of all visitors don't use trails	
TOTAL	3,720	8,001 Day use in cross country zones excluded	

	Total	Day Use	Overnight
TOTAL CAPACITY - PAOT	3,720	3,284	389 assumes 30 percent of hotel rooms occupied at time of area maximum occupancy
TOTAL CAPACITY - Persons Per Day	8,001	7,341	660

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY 168% 1,270 vehicles, less 40 employees = 3,690 PAOT assuming 3.0 per vehicle

Parking Needed at PAOT 1,378 Parking supply = 756 spaces not including "down the road" parking

Hourly Factor 16.44% traffic counts entering Paradise in 1993

Hourly Demand 1,316

White River (Map #11, #6) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Att. 5)	1996 Observed Max. Use Per Day	1995 Weekend Day w/ Good Weather
White River C.G.	Glacier Basin - Emmons Cut-off	Transition	In-Out	2.00	25.00	8.25	12.50	0.90	11.25	45.00	60.00	139.00	
White River C.G.	Glacier Basin - to Basin	Transition	In-Out	2.00	25.00	8.25	12.50	0.70	8.75	35.00	42.00		57.00
White River C.G.	Glacier Basin - Climbers	Transition	In-Out	2.00	25.00	8.25	12.50	0.30	3.75	15.00	18.00		
White River C.G.	Wonderland-W.R. to Sunrise	Semi	Through	2.50	18.75	7.50	18.75	0.20	3.75	12.00	3.00		
White River C.G.	Emmons Moraine	Transition	In-Out	1.50	18.75	6.25	9.38	1.00	9.38	50.00	50.00		
TOTAL									36.88	107.00	113.00		

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
AEMR	MOD. USE CLIMBING	GLACIER	EMMONS ROUTE	White River	NA	NA	31.25	NA	NA	30.00	90.00	48.00	788.00
AGLA	PRIMITIVE	BACKCOUNTR	GLACIER BASIN	White River	1.00	357.02	0.25	285.66	1142.65	2.00	6.00		
XWMT	PRIMITIVE	BACKCOUNTR	UPPER WHITE RIVE	White River	1.00	37.65	0.25	285.66	1142.65	2.00	6.00		
XWIT	PRIMITIVE	BACKCOUNTR	UPPER WHITE RIVE	White River	1.00	587.05	0.25	285.66	1142.65	2.00	6.00		
AEMG	PRISTINE	GLACIER	EMMONS GLACIER	White River	1.00	2290.63	0.13	285.66	2285.31	2.00	6.00		
AINT			INTERGLACIER	White River						Incl in Emmons	Incl in Emmons	24.00	148.00
TOTAL										38.00	114.00	72.00	936.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCGB	TRANSITION	CAMP	GLACIER BASIN CA	White River	BCGB	7.7390	7.76	1021.00	20.00	1266.00
BCCS			CAMP SCHURMAN	White River					48.00	2181.00
XCUR	Camp Curtis		LOWER CURTIS RID	White River					10.00	
TOTAL									78.00	3447.00

Front Country Facilities

	Units	Type	Factor	PAOT	Persons/Day
Campground	112.00	Sites	3.00	Persons/Site	336
Picnic	5.00	Tables	3.00	Persons/Table	15
Total					351

TOTAL CAPACITY - PAOT

568 Assume 25 percent of campground users use trails

589 Assume 25 campground users use trails

OBSERVED 1993 (Aug) PARKING OCCUPANCY

100% 51 vehicles = about 153 PAOT day use area

Parking Needed for PAOT 210 90 percent maximum occupancy Parking supply = 51 spaces

112.00 spaces for CG

17.37% 102 people/hr

Hourly Demand Factor source: 1993 study

Hourly Demand at max. capacity

July 7, 1999

Larry Beal, AICP
National Park Service - Denver Service Center
12795 W. Alameda Parkway
Denver, CO 80255

RE: Mount Rainier - Visitor Carrying Capacity Analysis Final Report
Task Order 18

Dear Larry:

We have revised the Visitor Carrying Capacity Analysis Report based on your comments dated June 11, 1999 (via e-mail). The following is the status of your comments and questions, and how we addressed them in the Final Report.

1. I have re-read the Task Order - The task order specifically states that existing conditions and maximum capacities for both winter and summer be developed. Can you help me understand what happened to the winter components?

DSC concluded that encounter rates do not change. Also, no data is available on visitor use (other than parking occupancy). Therefore different capacities could not be developed for winter.

2. Are you comfortable enough with the revised simplified carrying capacity process to include it in the document?

Yes, we included the revised carrying capacity flowchart in the document (pages 6 and 7).

3. Is there a specific reason for the title wording? - I would prefer "Visitor Carrying Capacity Analysis" which seems to be more reflective of the document content.

The title was changed accordingly (see Cover and Title page).

4. Purpose, 1st para, last sent: insert "an inventory of" before wilderness trails

This change was made (page 1).

5. Purpose 2nd para, sent 3: delete "of uses allowed" and add to end of sent: "and desired resource conditions."

This change was made (page 1).

6. Purpose 2nd para, sent 4: add to end of sent: "and the desired resource conditions in that zone."

This change was made (page 1).

7. Purpose, 3, para 4 1st sent - The carrying capacity analysis documented in this report estimates an allowable level of visitor use or capacity for each park management zone.

This sentence was added (page 1).

METHODOLOGY

Visitor Activity Areas: Change first paragraph to read: "The General Management Plan applied a Visitor Experience and Resource Protection Carrying Capacity Process for Mount Rainier National Park to ensure that visitation does not impair its resources and compromise its quality as a national park. Carrying capacity is a measure used to determine what types and levels of visitor use can be accommodated while maintaining resource and social conditions consistent with the purposes of the park and its management objectives.

The park was divided into a set of prescriptive management zones. The wilderness portions of the park were divided into six management zones including wilderness trails, trailside camps, wilderness management units (old cross-country zones), climbing routes, etc. Each prescriptive management zone specifies a particular combination of desired physical, biological, and social conditions.

The non-wilderness or frontcountry portions of the park were divided into seven prescriptive management zones including trails, roads, visitor facilities, picnic areas, campgrounds, concessions sales areas, administrative support facilities, etc."

This language was added (page 2).

8. Table 1: The GMP and management zone definitions use encounters per DAY. It would be clearer to express the encounter rates per day and then note that the daily encounters were converted to hourly encounters (assuming an 8-hour day) for the purposes of applying the mathematical carrying capacity mode.

All encounter rates were changed to encounters per day (page 2).

9. Page 2, 2nd sentence, 2nd paragraph, change to read: "The wilderness management zones were organized according to trailheads or major activity centers that provided the most convenient access."

This change was made (page 2).

10. Wilderness Trails, 1st sent. - It would seem to me that the management zone designation would be determined by the management zone that included the longest segment for each trail. Can we discuss this?

No. The trails have zone designations that are distinct from the zones the trails traverse. The park assigned designations to the trails based on factors that I assume included the designation of the surrounding wilderness zones, but also included other factors.

11. Wilderness Trails 2nd para, 3 sent. - Can you define how you are using "allowable arrival rate"?

The arrival rate is expressed as the number of people that can arrive at the trailhead per hour while not exceeding the allowable encounter rate (which is expressed as allowable encounters per hour, based on daily encounters divided by an eight-hour day).

12. Is the arrival rate based on an 8 - hour day?

Yes, the arrival rate is based on an 8-hour day.

13. Wilderness Management Units - Can you explain the difference between zone classification unit and wilderness management unit?

Zone classification units are designations (i.e. pristine, primitive, etc.) and wilderness management units are specific areas in the Park. For example, a wilderness management unit would have a zone classification.

14. Wilderness management unit, line 2 - Clarify that "(groups of three people) is an assumption based on observation.

This clarification was made (page 4).

15. Page 4, para 3, line 2 - what does "correct the scale" mean?

This reference was deleted. "Correct the scale" means to multiply the Park GIS data by a factor (provided by the Park GIS department) to place it in relative space.

16. Page 4, para 5, line 3 - change than to then

This change was made (page 4).

17. Page 4, para 6, line 2 - define Management unit tab

The Management unit tab is a section in the appendix of the document.

18. Trailside Camps, line 1 - Are the use limits discussed here the same as existing use levels?

No. The use limits are the capacity of the camps as determined by park staff. Existing use levels may be the same as capacity but are generally lower.

19. Non-Wilderness, line 5 - please define level of service C or D

Level of service C and D were defined (page 5).

20. Non-wilderness, para 1, sent 5 - Why was level of service A adopted? I assume it was based on existing use levels and use levels that could be accommodated while ensuring the protection of resources and maintaining high quality visitor experiences.

We discussed using LOS A and LOS B with the DSC and park staff. LOS A is the highest (least crowded) level defined for busy (urban) pedestrian environments. The capacity resulting from LOS A standards was compared to existing use levels, but existing use levels were not directly used to determine that LOS A was appropriate. LOS A reflects a starting point for use management that would result in a high quality visitor experience based on adopted standards for high activity areas. Monitoring of resource conditions would need to be done over time to confirm that the resulting use levels were consistent with resource protection objectives.

21. Non-Wilderness, para 1, last sent. - I thought that all of the trails in the non-wilderness are defined as level of service A. Why does this sentence say that "some

of the longer trails" have a reduced level of service. Who made this determination. I assume that it was based on trail conditions AND resource conditions. How many "longer trail segments" were used?

We made the judgement that the allowable use levels that resulted from using LOS A for very long trail sections seemed too high. Our rationale for reducing the capacity of the longer trails was that, because of their length, they may function somewhat more like a wilderness trail even though they are located entirely within non-wilderness areas. There were a total of two or three "longer" trails that fit this situation.

22. Limitation of Capacity Analysis - line 5 - Can you specify the "other factors" that the BRW team used professional judgement?

Directional split on loop trails and directional split of visitors and length of time spent along longer trails (in the absence of ranger information).

23. Limitation of Capacity Analysis - line 6 - explain or delete "and for identifying major issues with respect to visitation capacity and current levels of visitor use."

This statement was deleted (page 8).

24. Major Findings - Suggest a more clarifying statement in the first sentence. Perhaps using the following language in the draft study is more appropriate: "In general, the analysis of the capacity and use of visitor areas in Mount Rainier National Park shows that visitation in the park, as a whole, is not in excess of capacity. However, several areas have visitation that exceeds the capacity during good weather summer weekends and holidays at the defined *standards to achieve the desired resource and social conditions*. There may be opportunities to shift demand to less crowded areas by providing specialized transportation services or other incentives." It would seem like a good point to also suggest redistribution of visitors in terms of encouraging weekday and shoulder season visits rather than coming during the peak summer weekends. The park's resources can, in general, handle more capacity overall. The park's major visitor activity areas are not able to accommodate peak use and ensure that resources are protected and high quality visitor experiences maintained.

This language was added (page 9).

25. Last two sentences in 1st paragraph appear contradictory. If the parking provided at trailheads is generally sufficient to serve the number of people at one time that can be accommodated on the trails, then how is increased visitation going to bring the park to the point of reducing the number of parking spaces at the trailhead? Since the number of spaces currently existing is finite, then it would seem that it is primarily that number and the turnover rate that determines the peak and # of people on the trail

during the average 8-hour period. We would neither increase nor decrease parking unless use on the trail was less than or greater than the desired standard.

The first sentence was deleted (page 9).

26. The 2nd paragraph is misleading. Available parking is also inadequate to meet the carrying capacity at Paradise, and visitation is also higher than capacity at Sunrise. Based on the analysis, don't visitation levels exceed capacity at most major visitor activity areas on good weather summer weekends and holidays? Please rewrite to clarify situation.

These clarifications were made (page 9).

27. Major Findings, para 2, sent 2 - insert - Available *designated of defined* parking - We need to differentiate designated parking from overflow parking.

This change was made (page 9).

28. Same sent. as above - include Paradise in list

This change was made (page 9).

29. Page 6, para 3, sent. 3 - replace "would be displaced" with "could not be accommodated"

This change was made (page 9).

30. Page 6, last line - Where is the analysis documented?

This analysis was/will be documented in the GMP (page 9).

We are transmitting ten (10) copies of the Visitor Carrying Capacity Analysis Final Report for your use and distribution. We look forward to working with you on the GMP/Environmental Impact Statement for Mount Rainier National Park.

Sincerely,
BRW, Inc.

Mary Taylor Raulerson, AICP
Environmental Planner

C: Bill Byrne
Beth Ordonez

Final Report
Visitor Carrying Capacity Analysis

July 1999

MOUNT RAINIER

National Park • Washington

United States Department of the Interior • National Park Service • Denver Service Center
Prepared by BRW, Inc.

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PURPOSE

A General Management Plan is being prepared for Mount Rainier National Park. Because of increasing visitation and the potential for damage to the park's resources and degradation of the quality of experience enjoyed by visitors, the National Park Service undertook a study to determine the visitation capacity of the activity areas in the park. This study provided input to the development of the General Management Plan. The study included an inventory of wilderness trails, wilderness areas and campsites served by trails, climbing routes to the summit of Mount Rainier, non-wilderness trails, and visitor facilities in the major activity areas.

Visitation capacity was estimated so as to be consistent with *Desired Future conditions* that were established by the General Management Plan (GMP) team. The *Desired Future conditions* defined the critical aspects of visitor experience and resource protection that would be achieved by the General Management Plan for each area in Mount Rainier National Park. Each area was assigned a zone designation, which determined the types and the intensity of use and desired resource conditions. For example, the desired conditions on wilderness trails and in wilderness areas away from trails were expressed in terms of the number of encounters with other visitors the average visitor would experience during a daylong visit and the desired resource conditions in that zone.

The Carrying Capacity Analysis documented in this report estimates an allowable level of visitor use or capacity for each park management zone. The capacity levels estimated in this study were then used to estimate the sizes of new or modified visitor facilities. The results of this study also helped determine the required characteristics of transportation facilities and services that would be needed to implement each of the alternatives being considered in the General Management Plan.

METHODOLOGY

Visitor Activity Areas

The General Management Plan applied a Visitor Experience and Resource Protection Carrying Capacity Process for Mount Rainier National Park to ensure that visitation does not impair its resources and compromise its quality as a national park. Carrying capacity is a measure used to determine what types and levels of visitor use can be accommodated while maintaining resource and social conditions consistent with the purposes of the park and its management objectives.

The park was divided into a set of prescriptive management zones. The wilderness portions of the park were divided into six management zones including wilderness trails, trailside camps, wilderness management units (old cross-country zones), climbing routes, etc. Each prescriptive management zone specifies a particular combination of desired physical, biological, and social conditions.

The non-wilderness or frontcountry portions of the park were divided into seven prescriptive management zones including trails, roads, visitor facilities, picnic areas, campgrounds, concessions sales areas, administrative support facilities, etc.

Table 1 shows the visitor use standards for each wilderness zone designation in Mount Rainier National Park.

Table 1: Visitor Use Standards for Wilderness Zone Designations

Zone Designation	80 % of Visitors Will:
Research Natural Area	No Visitor Use
Pristine	Encounter No More Than 1 Other Party per Day
Primitive	Encounter No More Than 2 Other Parties per Day
Semi-Primitive	Encounter No More Than 64 Other People per Day
Transition	Encounter No More Than 104 Other People per Day
High Use Trail	Encounter No More Than 200 Other People per Day
Moderate-use Climbing	Encounter No More Than 75 Other People per Day
High Use Climbing	Encounter No More Than 150 Other People per Day

Visitor access to all parts of the park was assumed to be concentrated at trailheads or major activity areas along the park road system. The wilderness management zones were organized according to the trailheads or major activity centers that provided the most convenient access. The visitation capacity of each trailhead or activity center was determined by adding the capacity of all the wilderness areas served by the trailhead and the capacity of any non-wilderness trails and visitor facilities in the area. Visitation capacity was summarized for 28 individual trailheads and activity areas. Most of the trailheads served a few trails and wilderness areas with relatively low visitation capacity. The majority of visitor use and visitation capacity is concentrated in the large activity areas including Paradise, Sunrise, Longmire, and Mowich Lake. Individual spreadsheets show the total visitation capacity of the each area in people at one time (PAOT) and people per day. The spreadsheets show how the total capacity is spread among the trails, wilderness management units, trailside camps, non-wilderness trails, and non-wilderness facilities in or served by the activity area.

Capacity Analysis Techniques

Individualized techniques were used to estimate visitation capacity for the following types of area in the park:

- Wilderness Trails
- Wilderness Management Units (also referred to as Cross Country Zones)
- Trailside Camps
- Non-wilderness Trails (also referred to as Front Country Trails)
- Buildings and Other Visitor Facilities (also referred to as Front Country Facilities)

For all areas, the average number of visitors in family units or other groups was assumed to be 3.0. This is consistent with vehicle occupancy observations and with the results of visitor surveys conducted in the past.

Wilderness Trails

The GMP planning team determined the zone designation for each trail. Mount Rainier National Park staff provided information on the primary use of the trail (in and out the same way, versus hiking on to other areas) and the typical amount of time spent on the trail. The park staff also provided information on the trailheads that are used to reach each trail. This information was used to estimate the number of visitors that could begin hiking on the trail each hour and the maximum accumulation and daily maximum use of the trail while conforming to the allowed number of encounters for the zone designation of the trail.

The zone designation and the time spent by visitors on the trail determined the number of encounters allowed during the average visit. The type of visitor use determined the rate of arrival that could be sustained on the trail without exceeding the allowed number of encounters. This allowable arrival rate is expressed as the number of people that can arrive at the trailhead per hour (based on an 8-hour day) while not exceeding the allowable encounter rate as defined by the zone designation. Trails on which all visitors enter and exit the same way had the lowest allowable arrival rate. Trails that are used as through routes to other areas and loop trails had higher allowable arrival rates.

The maximum number of people that can be on a trail at one time was determined from the allowable arrival rate and the average time spent on the trail. Daily use of the trail was then estimated from the allowable arrival rate over an assumed eight-hour day. If a trail is served by more than one trailhead, the capacity was apportioned according to the estimated percentage of users that come from each trailhead.

The capacity calculations for each trail were accomplished using a spreadsheet. The capacities of all of the trails served by each trailhead were added to develop an overall wilderness trail capacity. The calculations are shown on individual pages for each trailhead in the next section. Detailed explanations of the calculation steps and data sources are provided at the beginning of the section. Conceptual illustrations also are provided to show how the capacity of each type of trail was determined.

Trails designated by the Mount Rainier staff or the trail data base as "way-trails" were not included in this analysis. Way trails are typically areas through which visitors walk that do not have designated trails or identifiable walking routes. The capacity of way trails was assumed to be included in the capacity of the wilderness management units in which they were located. The calculation of wilderness management unit capacity is described in the following section.

Wilderness Management Units

The GMP planning team determined the zone classification for each wilderness management unit. This classification determined the maximum number of parties (groups of three people based on observations and visitor surveys) that should be encountered by the typical visitor during a typical day. The daily encounter limit was converted to an average hourly rate of encounters assuming an eight-hour day.

The Mount Rainier staff provided a "hide factor" ranging from 1 to 5 for each zone. A 1 hide factor was assigned to areas with wide-open terrain and no vegetation cover. A 5 hide factor was assigned to areas with dense forest and undergrowth that would limit visibility. The BRW team estimated a radius within which no other visitors could be present to avoid an encounter for each hide factor. The radius defined a circular area that each visiting party would have to themselves at any instant to avoid any encounters. The BRW team then assumed that the typical party in an off-trail wilderness area would cover about one half mile each hour. The area needed by each party was then expanded to reflect the one-half mile distance that would be covered in one hour.

Based on the allowable number encounters per hour for the zone class, the number of other day-use or overnight parties that could be within the "no-encounter zone" for each party was calculated. This calculation yielded the area that would be needed by each party to avoid exceeding the allowed number of encounters per hour.

The area of each wilderness management unit was determined using the GIS coverage of the park. Areas with greater than 30 % slopes were subtracted from the total area to yield an estimate of the usable area of each management unit. This usable area was divided by the area needed per party to determine the number of parties that could occupy each wilderness management unit at one time while maintaining the desired standard for encounters.

The park staff provided information on the overnight use limits in the wilderness management units. This information was combined with the day-use occupancy limits calculated as described above to provide an overall estimate of the capacity of the wilderness management units.

The BRW team grouped the wilderness management units by the trailhead that would most likely serve as the primary point access. The capacity of the wilderness management units served by each trailhead was then summed to determine an overall capacity for off-trail wilderness use at each trailhead.

The analysis of the capacity of the wilderness management units is documented within the Wilderness Management Unit tab. The analysis was completed using a spreadsheet, which is provided in the tabbed section. A detailed description of the spreadsheet entries and an illustration of the methods used to determine the area needed by each party also are provided.

Trailside Camps

Mount Rainier staff provided overnight use limits (capacity of the camps), for trailside camps in the wilderness. The BRW team grouped the camps according to the trailhead providing the most direct access. The overnight use limits for all trailside camps served by each trailhead were summed to provide an overall capacity by trailhead.

Non-Wilderness (Front Country) Trails

The capacity of trails outside the wilderness boundaries was determined using pedestrian flow capacity techniques documented in the *Highway Capacity Manual*. The techniques are appropriate for areas with high concentrations of pedestrians. The pedestrian capacity of walkways is related to a desired "level of service", which describes the relative crowding and ability of pedestrians to choose their path and speed

of walking. Most urban area applications assume level of service C (≥ 24 square feet of walking surface per pedestrian) or D (≥ 15 square feet of walking surface per pedestrian) during hours of peak pedestrian activity. The capacity of walkways at Mount Rainier was estimated assuming level of service A conditions. Level of Service A was used because it results in a high quality visitor experience based on adopted standards for high activity areas. The capacity of some of the longer trails in the non-wilderness areas above Paradise was reduced below that possible at level of service A to reflect the steep grades and long walking distances along these trails.

Level of service A requires a minimum average of 130 square feet of walking surface per pedestrian. The walking area of each trail was calculated by multiplying the average trail width by the trail length (both provided by Mount Rainier staff). The number of visitors that could use the trail at one time was calculated by dividing the trail area by 130 square feet per person. The daily capacity of trails in each activity area was estimated by multiplying the maximum number people at one time by a turnover rate per day. The turnover rate was based on parking turnover data collected by BRW in 1993.

Non-Wilderness (Front Country) Facilities

Estimates of the capacity in people at one time were prepared for the following facility types:

- *Lodging.* Based on the number of rooms
- *Dining.* Based on the size (area) of the dining facility
- *Concession Sales.* Based on the size of the facility
- *Ranger Station/Wilderness Information Center.* Based on the size of the facility
- *Museums/Visitor Center Interpretive Areas.* Based on the size of the facility (except the Jackson Visitor Center, for which the park staff provided an overall capacity)
- *Picnic Areas.* Based on the number of tables
- *Campgrounds.* Based on the number of sites
- *Outdoor Circulation Areas.* Based on the size of the facility
- *Restrooms.* Based on the size of the facility

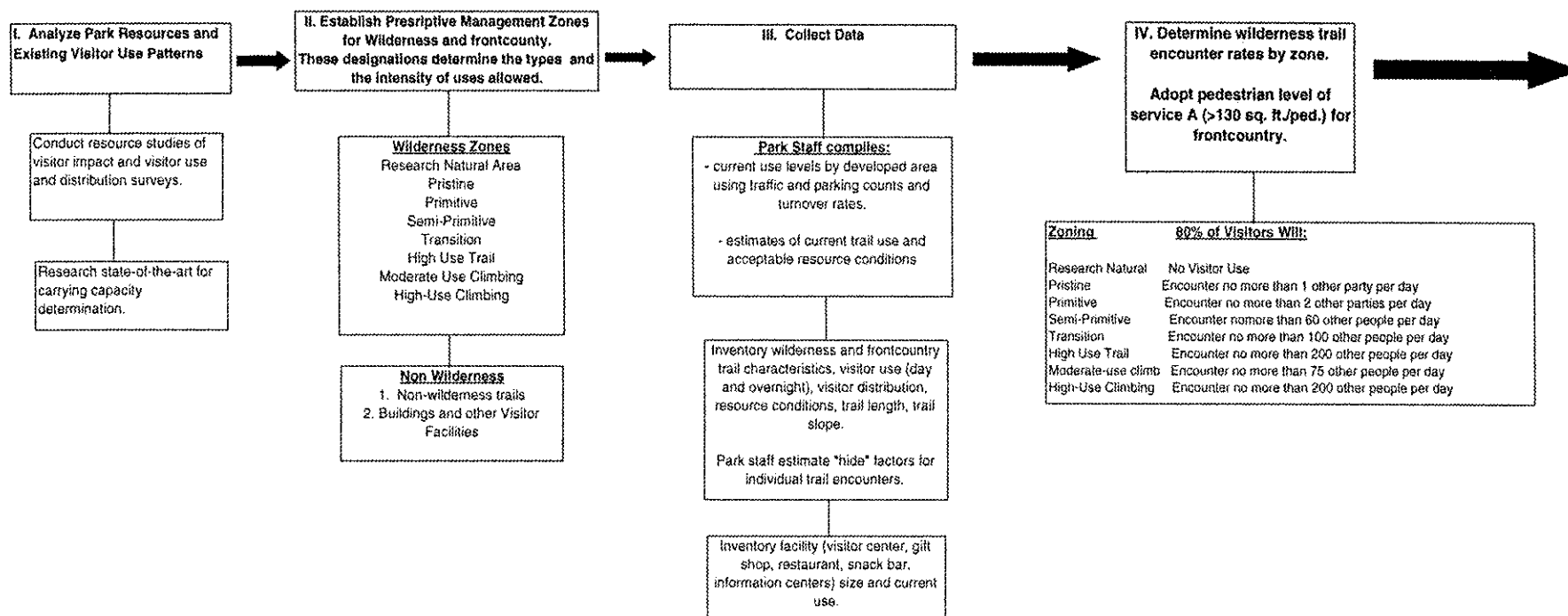
A typical area per person was applied to the area of each facility to determine the number of people that could occupy each at one time. The area per person standards were drawn from facility planning work underway for Yosemite National Park. The standards include a provision for converting gross building area to net usable square feet. The standards are documented on spreadsheets for each activity area.

In determining the overall capacity of non-wilderness facilities in an activity area, it was assumed that lodging rooms are not fully occupied when the rest of the activity area is at maximum occupancy.

Summary of the Carrying Capacity Analysis Process

The following flowchart summarizes the steps in the carrying capacity process.

CARRYING CAPACITY ANALYSIS PROCESS



CARRYING CAPACITY ANALYSIS PROCESS (Cont.)

V. Develop and apply mathematical model for wilderness trail hiker spacing, frontcountry visitor use distribution, and facility use. Adjust use levels for weather conditions. Assumptions include constant arrival rate of visitors, daily encounters within standards converted to hourly equivalents, and all visitors travel entire length of trail segment.

Wilderness Trails - Capacity was based on the type of trail, the primary use of the trail and the time spent on the trail. The allowable hourly arrival rate, the maximum visitor accumulation and the daily maximum number of visitors on the trail were determined based on the allowed number of encounters and the zoning designation of the trail.

Wilderness Management Units - Capacity was a factor of the area needed at any one time by each party to avoid encounters and was estimated by determining how many parties could occupy each identified unit and maintain the allowable encounter rate.

Wilderness/Trailside Camps - Overnight use limits for all trailside camps served by each trailhead were used to determine camp capacities.

Non-Wilderness - Capacity of the trails outside the wilderness boundaries was determined based on pedestrian flow capacity and levels of service.



RESULTS: Carrying Capacity numbers by developed area
Persons at one time
People per day (day use and overnight)
People per year

VI. Use Carrying Capacity Numbers to:
Reconfigure Parking Lots
Assess feasibility of shuttle bus systems
Evaluate number of visitors affected by alternative actions
Ensure long term protection of resources and high quality visitor experience.



VII. Monitor and refine carrying capacity numbers based on resource conditions and visitor use patterns.

LIMITATIONS OF THE CAPACITY ANALYSIS

The capacity analysis prepared for the Mount Rainier General Management Plan used available data on the physical attributes of the park and the characteristics of visitor use. Data sources included the park staff, geographic information system data bases, data collected by BRW, Inc. in 1993 and 1994, observations of visitor use in 1995, traffic counts from permanent count stations, and information from the park concessioner. The BRW Team used professional judgement to estimate other factors. The resulting estimates of visitation capacity provide an appropriate basis for comparing the impacts of the GMP alternatives. The carrying capacity of trails, wilderness management units, and facilities should be updated or refined through a monitoring program designed to determine if the indicators and standards established in the desired future conditions for Mount Rainier are being attained.

By collecting additional data and monitoring conditions over time, a more precise assessment of visitation capacity for the visitor areas in Mount Rainier National Park can be developed. The monitoring process should be designed to provide park management with the data needed to confirm that the desired future conditions are being achieved on trails and in wilderness management units. The capacity models for trails and wilderness areas presented in this report would then be refined with more extensive data on the distribution of visitors in the park and evaluation of resource conditions. The refined models could then be used to assist park management to maximize access to the park, while achieving the visitor experience and resource protection goals of the General Management Plan.

MAJOR FINDINGS

In general, the analysis of the capacity and use of visitor areas in Mount Rainier National Park shows that visitation in the park, as a whole, is not in excess of capacity. However, several areas have visitation that exceeds the capacity during good weather summer weekends and holidays at the defined *standards to achieve the desired resource and social conditions*. There may be opportunities to shift demand to less crowded areas by providing specialized transportation services or other incentives.

These findings are sensitive to how visitors are distributed along the trails that are served by each trailhead. Visitors may be more concentrated near the trailheads, which would result in a higher incidence of encounters near the trailhead and a lower rate of encounters in more remote areas. The study also shows that the parking provided at trailheads is generally sufficient to serve the number of people at one time that can be accommodated on the trails.

The analysis also shows that visitation is higher than capacity at most of the major visitor activity areas in the park, including Paradise, Sunrise, Mowich Lake and Ipsut Creek. Available designated parking is inadequate to meet the carrying capacity at Paradise, Sunrise, Longmire, Comet Falls, the White River Trailhead, and Box Canyon.

The Westside Road area has the capacity to accommodate major increases in growth if access can be provided beyond the current road closure at Dry Creek. Other individual sites offer some potential for increased visitation or diversion from overused areas. The unused capacity in most areas would not be adequate to accommodate the visitors that could not be accommodated in the most popular areas on peak use days.

The results of this study have been applied to the analysis of visitor use levels and the number of visitors served by each of the GMP alternatives. That analysis is documented separately in the General Management Plan for Mount Rainier National Park.

TRAILHEADS/ACTIVITY AREAS

Explanation of Table Entries

Trailhead Activity Summaries

This section provides a summary of the carrying capacity analysis for the trailheads and activity centers in Mount Rainier National Park. Each trailhead or activity center is reported on an individual page. The results for the larger activity areas are presented on two pages.

The analysis results are organized into the following sections for each activity area:

- Wilderness Day Use (trails)
- Cross Country Zones – Overall (wilderness management units)
- Trailside Camps
- Front Country Trails (trails in activity areas)
- Buildings and Facilities

Many activity areas and trailheads do not have all of the elements listed above.

A summary of the overall visitation capacity of the trailhead or activity area is provided at the bottom of each sheet.

The entries in each column are explained below:

Trails

- *Trailhead.* The location providing access to the trail. Some trails are accessed through multiple trailheads. The trailheads are identified in Attachment 5.
- *Trail.* The name of the trail.
- *Zone.* The zone designation of the trail. This designation, along with the time on the trail, determines the number of allowable encounters.
- *Type.* Shows the type of trail: in-out, loop, through, or combinations.
- *Average Time on Trail.* The average length of time spent by an individual visitor on the trail in hours, from Attachment 5.
- *Encounters Allowed During Visit.* The maximum number of encounters an average visitor would have during their visit as defined by the zone designation and average time on trail. Determined by taking the number of encounters per day allowed for the zone designation and factoring by time on the trail, divided by 8 hours (e.g., $4/8 \times 60 = 30$) for a r-hour trail with a semi-primitive zone designation.
- *Maximum Arrival Rate Per Hour.* The maximum number of visitors per hour than can begin walking along the trail while not exceeding the allowed encounters. The arrival rate is a function of the type of trail, the allowed encounters, the time on the trail and the use characteristics of the trail (see attached sheets for illustration of equations).
- *Maximum Visitors at One Time.* Shows the maximum number of people that can be on the trail at one time, while not exceeding the number of encounters. Equals the Maximum Arrival Rates Times the Time on Trail.
- *Percent of Trail Users from This Trailhead.* Shows the estimated proportion of trail users that start their trip at the listed trailhead. Attachment 5 shows the trailheads used to reach each trail. Judgement of the team was applied to apportion users among the trailheads.

- *Maximum Visitors at One Time from Trailhead.* Shows the number of visitors that started their trip at the trailhead that could be on the trail at one time. Equals Maximum Occupancy times Percent of Users from Trailheads.
- *Maximum Users Per Day from Trailhead.* The maximum number of people that could use the trail per day while not exceeding the encounters standard. Assumes a constant level of use over an 8-hour day. Equals Maximum Arrival Rate times 8 hours.
- *Per Day Estimated Use.* Estimated daily use of the trail, provided by MORA staff in Attachment 5. If this value is greater than the maximum number of users per day, the trail is out of standard.

Cross Country Zone – Overall. This section of the table documents the analysis of the capacity of the wilderness management units. Day use capacity is expressed as people at one time (PAOT). Overnight capacity is expressed as people per night. The contribution of each unit to the maximum PAOT capacity of the trailhead is the day-use capacity of the unit. The information in this section is drawn from the Wilderness Management Unit tab of this report for individual trailheads.

- *Unit.* The four letter code for the wilderness management unit.
- *Zone Class.* The zone classification of the wilderness management unit; determines allowable encounter rate.
- *Type.* The type of zone.
- *Unit Name.* The common name of the wilderness unit.
- *Primary Trailhead.* The trailhead that most users of the zone would be expected to use. Matches the trailhead that is the subject of each sheet.
- *Hide.* The hide factor assigned to the unit; Hide = 1 identifies a unit with no vegetation and long-distance visibility, Hide = 5 identifies a unit with heavy vegetation and limited visibility.
- *Adjusted Usable Acres.* The area within which visitor use can occur in the unit. Portions of the unit with slopes greater than 30 % are excluded from usable area.
- *Encounters/Hour Allowed Within Standard.* The number of other parties that an individual party can encounter in one hour within the standard for the zone classification of the unit.
- *Area Covered per Hour.* The area that would be covered by individual parties over a one hour period, including the buffer zone within which an encounter is considered to have occurred. This area is greatest for units with low hide factors.
- *Area Needed/ Party at Standard.* The average area needed by individual parties at any given time to maintain the number of encounters allowed within the standard. Equal to Area Covered per Hour Divided by Encounters per Hour Allowed Within Standard.
- *Number of Parties Allowed at One Time.* The number of parties that can occupy the unit at one time. Equal to the Adjusted Usable Acres Divided by the Area Needed/ Party at Standard.
- *Number of People Allowed at One Time.* Equal to the Number of Parties Allowed at One Time times 3.0.
- *Overnight Carrying Capacity.* The number of people that can occupy the unit per night (from Mount Rainier park staff, Attachment 1).
- *Existing Use (Camper Nights per Year).* The number of camper nights that are spent in the unit per year (from Mount Rainier park staff, Attachment 2).

Trailside Camps. This section documents the overnight capacity of the trailside camps that are served by each trailhead. The information is drawn from the Wilderness Management Unit tab of this report for the individual trailheads.

- *Unit.* The four letter code for the trailside camp.
- *Zone Class.* Not used.

- *Type*. Not used.
- *Unit name*. The common name of the trailside camp.
- *Primary Trailhead*. The trailhead that most users of the camp can be expected to use.
- *Oldzone*. The four letter code for the camp in a previous naming system
- *Acres*. Blank or a standard area for all camps, not used in calculations.
- *Adjusted Useable Acres*. Blank or a standard area for all camps, not used in calculations.
- *Annual Occupancy*. Use factor provided by Mount Rainier park staff.
- *Overnight Use Limit*. The number of people that can occupy the camp on a given night.
- *Existing Use (camper nights per year)*. The number of camper nights spent at the camp in a year.

Front Country Trails. This section documents the capacity of front country trails (if any) served by the trailhead or located within the activity area. The source for the data is in the Front Country Trails Tab.

- *Trail Name*
- *Capacity PAOT*. The number of people that can be on the trail at one time.
- *Capacity People Per Day*. An estimate of the number of people that could use the trail per day. Based on an observed turnover rate for the activity area.
- *Estimated Daily Use*. The number of people estimated to use the trail on a typical day (from Mount Rainier Staff unless noted otherwise, Attachment 3).
- *Notes*: Source of daily use estimate.

Buildings/Facilities. This section documents the capacity of visitor facilities located in activity areas (if applicable).

- *Facility Name*
- *Units*. The number of units (area, tables, rooms) contained in the facility.
- *Type*. The type of unit of measure.
- *Factor*. The factor relating the number of visitors per unit (e.g. 3.0 visitors per picnic table).
- *Explanation of factor*.
- *PAOT*. The capacity of the facility in People At One Time
- *Persons/Day*. The estimated number of people that could use the facility per day, based on an assumed turnover rate.
- *Note regarding calculations*.

Summary. Provided for the largest activity areas to allow convenient viewing of the capacity of each type of visitor use area in or served by the activity area. Also documents how individual use area capacities are combined to estimate the total capacity of the activity area.

Total Capacity – PAOT – The estimated total number of people that could occupy the visitor use areas served by the activity area or trailhead.

Total Capacity – Persons Per Day – The estimated total number of people that could pass through the activity area or trailhead per day.

Total Current Use (some activity areas) – An estimate of the total current use of the activity area based on traffic counts or other available data.

Observed 1993 Parking Occupancy (where available) – The maximum observed occupancy of the parking areas serving the activity area or trailhead. Also provides the number of parked vehicles and the resulting estimated number of people in the activity area or trails served by the trailhead at one time.

Parking Needed at PAOT – The number of parking spaces that would be needed to accommodate the Total Capacity PAOT if all visitors arrived by private vehicle. Assumes 3.0 visitors per vehicle and a maximum occupancy of 90 percent for the parking area.

Hourly Factor (some areas) – The percentage of the daily use that can be expected to occur in the peak hour, based on traffic counts on adjacent roads or roads serving the area.

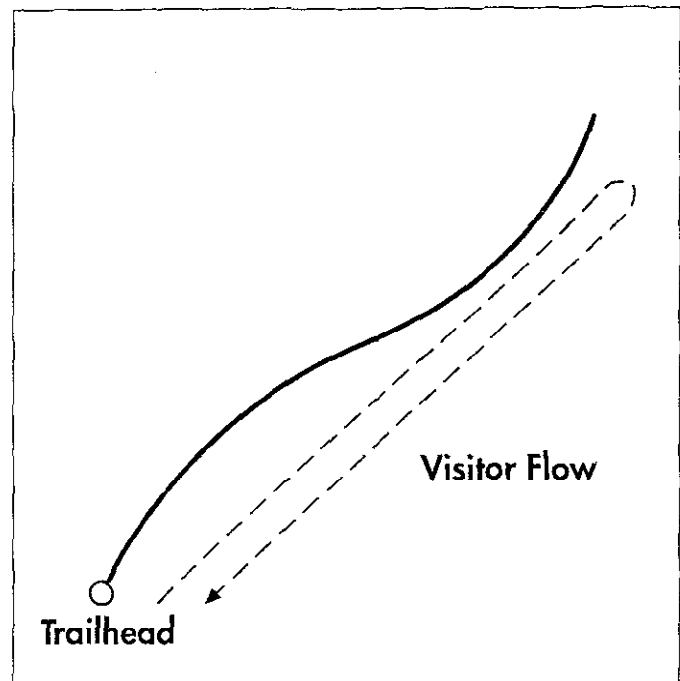
Hourly Demand (some areas) – The number of visitors per hour that could be expected to arrive at the maximum use level of the area, equals *Total Capacity – Persons per day times Hourly Factor*.

MT. RAINIER

Capacity and Trail Analysis

Illustration of Trail Capacity

CASE: Simple In/Out Trail



All visitors in/out same way

Time on Trail = T

Arrival Rate at Trailheads = AR

Total People on Trail at One Time = $AR \times T$ = Occupancy

An individual will encounter all visitors on the trail when they begin their trip, plus all visitors that arrive at the trailheads during their trip. The visitors arriving during the trip = $AR \times T$, so:

Encounters = $E = 2AR \times T$

Given an allowable number of encounters (E_a), the allowable arrival rate is:

$$AR_a = \frac{E_a}{2T}$$

Allowable
Occupancy $O_a = AR_a \times T$

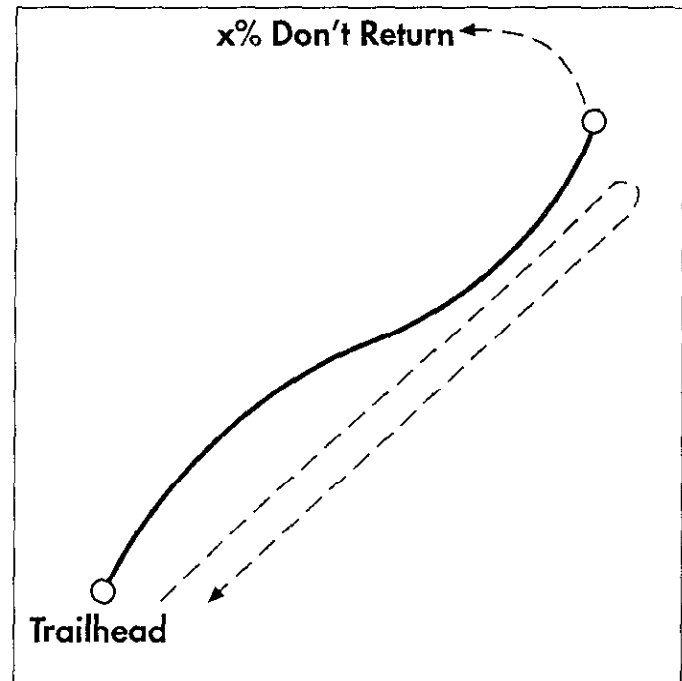
The allowable arrivals would be apportioned between the two trailheads (if there are 2).

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Capacity and Trail Analysis

Trail Capacity

**CASE: In-Out/Through Trail,
With Some Visitors
Not Returning**



Time on Trail = **T**

Arrival Rate at Trailheads = **AR**

An individual will encounter **(1-x)%** of the visitors on the trail, plus all visitors arriving during their trip. The encounters would then be:

Encounters = **E** = **[1+(1-x)]AR x T**

Given an allowable number of encounters (**E_a**), the allowable arrival rate is:

$$AR_a = \frac{E_a}{[1+(1-x)]T}$$

Allowable
Occupancy

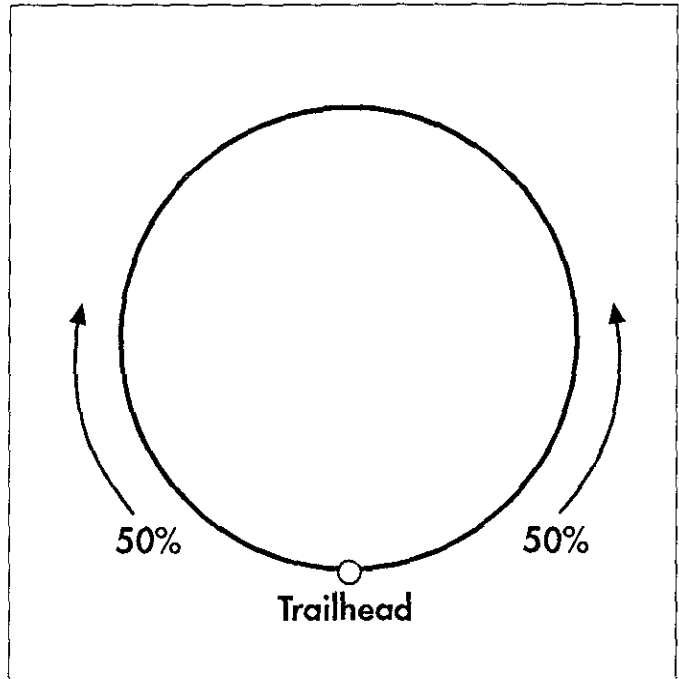
$$O_a = AR_a \times T$$

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Capacity and Trail Analysis

Illustration of Trail Capacity

CASE: Loop, With Equal Directional Split



Time on Trail = T

Arrival Rate at Trailheads = AR

Visitors on Trail (Occupancy) = $AR \times T$

An individual will encounter $1/2$ of the visitors on the trail when they arrive, plus $1/2$ of the visitors arriving during their trip (assumes no overtaking of visitors going same way). From the first two illustrations we can conclude:

Given an allowable number of encounters (E_a), the allowable arrival rate is:

$$AR_a = \frac{E_a}{T}$$

Allowable
Occupancy

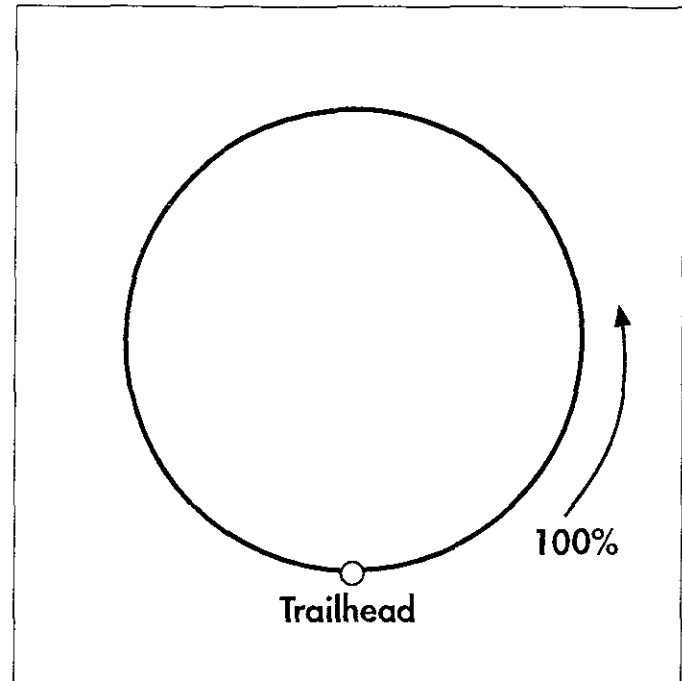
$$O_a = AR_a \times T$$

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Capacity and Trail Analysis

Trail Capacity

**CASE: Loop, With Visitors
Traveling in One
Direction**



Time on Trail = T

Arrival Rate at Trailheads = AR

Visitors on Trail (Occupancy) = $AR \times T$

In theory, if all visitors traveled at the same walking speed, no encounters would occur on a loop trail with all travelers going the same direction. In practice, visitors will walk at different speeds and walking close behind other visitors may have nearly the same impact as having them pass in the opposite direction. We have assumed an arrival rate and allowable occupancy double that for a trail with directional split:

$$AR_a = \frac{2E_a}{T}$$

$$O_a = AR_a \times T$$

Box Canyon (Map # 9)
Day Use of Wilderness Trails

Trailhead	Trail	Zone Designation	Type	Avg. Time on Trail (Hrs)	Allowed Encounters Per Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Box Canyon Picnic	Stevens Creek	Semi	In-Out	2.00	15.00	3.95	7.89	100%	7.89	31.58	30
Box Canyon Picnic	Wonderland to Reflection	Semi	In-Out	4.00	30.00	3.75	15.00	100%	15.00	30.00	15
Box Canyon	Wonderland to Sunrise	Semi	Through/in-out	8.00	60.00	7.50	60.00	15%	9.00	9.00	8
Box Canyon	Wonderland - Summer, to Indian Bar	Semi	In-Out	3.00	22.50	3.75	11.25	50%	5.63	15.00	8
Box Canyon	Wonderland - Indian Bar to Box Canyon	Semi	In-Out	4.00	30.00	3.75	15.00	80%	12.00	24.00	8
TOTAL									50	110	68

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party At Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XCOW	PRIMITIVE	BACKCOUNTRY	COWLITZ PARK	Box Canyon	3.00	1211.56	0.25	145.50	582.00	2.08	6.25	9	59
XCOW	PRIMITIVE	BACKCOUNTRY	COWLITZ PARK	Box Canyon	3.00	1394.04	0.25	145.50	582.00	2.40	7.19		
XNIC	PRISTINE	BACKCOUNTRY	NICKLE CREEK	Box Canyon	5.00	2459.87	0.13	42.85	342.84	7.18	21.53		
XNIC	PRISTINE	BACKCOUNTRY	NICKLE CREEK	Box Canyon	5.00	1.58	0.13	42.85	342.84	2.00	6.00		
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	Box Canyon	5.00	335.06	0.13	42.85	342.84	2.00	6.00		
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	Box Canyon	5.00	1753.19	0.13	42.85	342.84	5.11	15.34		
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	Box Canyon	5.00	66.26	0.13	42.85	342.84	2.00	6.00		
XWIL	PRISTINE	BACKCOUNTRY	WILLIWAKAS CREEK	Box Canyon	5.00	975.28	0.13	42.85	342.84	2.84	8.53		
Total										26	77	9	69

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	QLOZONE	ACRES	Adjusted Usable Acres	Annual Overnight Use Limit Occupancy (people per night)	Existing Use (camper nights per yr)	
BCIB	SEMI-PRIMITIVE	CAMP	INDIAN BAR CAMP	Box Canyon	BCIB	7.7290	7.75	445.00	3.00	484
BCMC	SEMI-PRIMITIVE	CAMP	MAPLE CREEK CAMP	Box Canyon	BCMC	7.7260	7.74	403.00	4.00	441
BCNC	SEMI-PRIMITIVE	CAMP	NICKLE CREEK CAMP	Box Canyon	BCNC	7.7220	7.74	402.00	3.00	425
Total									10	

TOTAL CAPACITY - PAOT 136
TOTAL CAPACITY - Persons per Day 136

OBSERVED 1993 (Aug) PARKING OCCUPANCY 87% 27 vehicles = about 81 PAOT
Parking Needed for PAOT 51 Parking Supply = 31 spaces

Cayuse Pass

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max. Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Cayuse Pass	Eastside	Semi	In-Out	3.00	22.50	3.75	11.25	1.00	11.25	30.00	2.25
TOTAL									11.25	30.00	2.25

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
XCAY	PRISTINE	BACKCOUNTRY	CAYUSE PASS	Cayuse	5.00	2265.64	0.13	42.85	342.84	6.61	19.83	NA	
XCAY	PRISTINE	BACKCOUNTRY	CAYUSE PASS	Cayuse	5.00	541.54	0.13	42.85	342.84	2.00	6.00	NA	
TOTAL											8.61	25.83	0.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
TOTAL									0.00	

TOTAL CAPACITY - PAOT

37

TOTAL CAPACITY - Persons Per Day

37

OBSERVED 1993 (Aug) PARKING OCCUPANCY Not Checked

Parking Needed for PAOT

14 Parking Supply Unknown

Chenius Falls (Map #4) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Max Users		Per Day Estimated Use
									Visitors at One Time	per Day from Trailhead	
Chenius Falls	Chenius Falls	Semi	In-Out	1.00	7.50	3.75	3.75	1.00	3.75	30.00	15.00
TOTAL									3.75	30.00	15.00

TOTAL CAPACITY - PAOT 4
TOTAL CAPACITY - Persons Per Day 30

OBSERVED 1993 (Aug) PARKING OCCUPANCY Not Checked
PARKING NEEDED AT PAOT 2 90 percent occupancy standard Parking supply unknown

Chinook Pass

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Chinook Pass	Crystal Lakes - Crest	Semi	In-Out/Through	3.00	22.50	3.95	31.58	0.40	12.63	12.63	12.00
Chinook Pass	Crystal Lakes - Upper	Semi	In-Out/Through	1.00	7.50	3.95	31.58	0.24	7.58	7.58	7.20
Chinook Pass	Crystal Lakes - Lower	Semi	In-Out/Through	1.00	7.50	3.95	31.58	0.08	2.53	2.53	2.40
Chinook Pass	Naches Loop	Transition	Loop	2.00	25.00	12.50	25.00	0.33	8.25	33.00	9.90
Chinook Pass	Pacific Crest	Semi	In-Out/Through	8.00	60.00	5.00	40.00	0.80	32.00	32.00	12.00
TOTAL									40.25	77.63	33.90

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
XCRY	PRISTINE	BACKCOUN	CRYSTAL MOUNTAIN	Tipsoo	2.00	139.49	0.13	210.89	1687.14	2.00	6.00	6.00	0.00
XCRY	PRISTINE	BACKCOUN	CRYSTAL MOUNTAIN	Tipsoo	2.00	234.11	0.13	210.89	1687.14	2.00	6.00	6.00	0.00
XDEA	PRISTINE	BACKCOUN	DEADWOOD LAKES	Tipsoo	4.00	905.70	0.13	89.49	715.90	2.00	6.00	6.00	3.00
XDEA	PRISTINE	BACKCOUN	DEADWOOD LAKES	Tipsoo	4.00	4.67	0.13	89.49	715.90	2.00	6.00	6.00	3.00
TOTAL										8.00	24.00	12.00	3.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
TOTAL									0.00	

TOTAL CAPACITY - PAOT

64

TOTAL CAPACITY - Persons/Day

90

OBSERVED 1993 (Aug) PARKING OCCUPANCY

Not Checked

Parking Needed for PAOT

24 Parking supply unknown

Comet Falls

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Att. 7)	1995 Est. Weekend w/ Good Weather	1996 Observed Daily Entries
Comet Falls	Comet Falls - Falls	Transition	In-Out/Through	3.00	37.50	6.41	19.23	1.00	19.23	51.28	60.00	183.00	
Comet Falls	Comet Falls - WT to Van Trump	Semi	In-Out/Through	4.50	33.75	3.85	17.31	1.00	17.31	30.77	1.20	33.00	
Comet Falls	Comet Falls- Van Trump	Semi	In-Out	1.50	11.25	3.75	5.63	1.00	5.63	30.00	6.00	70.00	
Comet Falls	Mildred Point	Semi	In-Out	2.00	15.00	3.75	7.50	1.00	7.50	30.00	5.00	22.00	
TOTAL									49.66	142.05	72.20	183.00	202.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide Usable Acres	Adjusted Encounters/Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Capacity (people per night)	Existing Use (camper nights per yr)
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1.00	2137.50	0.25	285.66	1142.65	2.00	6.00 unlimited	608.00
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1.00	74.78	0.25	285.66	1142.65	2.00	6.00	
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1.00	18.93	0.25	285.66	1142.65	2.00	6.00	
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1.00	3.61	0.25	285.66	1142.65	2.00	6.00	
XVAN	PRIMITIVE	BACKCOUNTRY	VAN TRUMP PARK	Comet Falls	1.00	191.26	0.25	285.66	1142.65	2.00	6.00	
XUPN	PRISTINE	BACKCOUNTRY	UPPER NISQUALLY	Comet Falls	5.00	380.14	0.13	42.85	342.84	2.00	6.00 Unlimited	205.00
TOTAL									12.00	36.00	31.27	813.00

TOTAL CAPACITY - PAOT

86

TOTAL CAPACITY - Persons per Day

173

OBSERVED 1993 (Aug) PARKING OCCUPANCY

100% 26 spaces = about

78

PAOT

PARKING NEEDED AT PAOT

32 90 percent occupancy standard

Parking supply =

26 spaces

Hourly Factor

17.37%

Hourly Demand

30

Cougar Rock (Map # 8) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Cougar Rock	Wonderland - Reflection to Longmire	Semi	In-Out/Through	3.00	22.50	5.00	15.00	0.15	2.25	6.00	6.00
TOTAL									2.25	6.00	6.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XCOU	PRISTINE	BACKCOUNTRY	COUGAR ROCK	Cougar Rock	5.00	427.00	0.13	42.85	342.84	2.00	6.00		
TOTAL										2.00	6.00	0.00	

Campground

Group Sites	3 people per site	187.00 sites	Assume amphitheater used by campers							187	561	561	
Individual Sites	9 people per site	5.00 sites								15	45	45	
Total										202	606	606	

Picnic Area

Individual Sites	3 people per site	30.00 sites								30	90	225	people per day
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TOTAL CAPACITY - PAOT **704**

TOTAL CAPACITY - Persons per Day **837**

OBSERVED 1993 (Aug) PARKING OCCUPANCY **Not checked**

PARKING NEEDED AT PAOT **261** 90 Percent Occupancy Standar 202 spaces for campground
Parking supply away from campground unknown

Hourly Factor 17.37%

Hourly Demand 145

Crystal Creek (Map #14)
Day Use of Wilderness Trails

MORACAPY2-10.XLS

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Crystal Creek	Crystal Lakes - Lower	Semi	In-Out/Through	3.00	22.50	3.95	11.84	0.60	7.11	18.95	12.00
Crystal Creek	Crystal Lakes - Upper	Semi	In-Out/Through	1.00	7.50	3.95	3.95	0.36	1.42	11.37	7.20
Crystal Creek	Crystal Lakes - Crest	Semi	In-Out/Through	1.00	7.50	3.95	3.95	0.12	0.47	3.79	2.40
TOTAL									9.00	18.95	12.00
									18.00	53.05	33.60

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
TOTAL									0.00	0.00	0.00	0.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
									0.00	

TOTAL CAPACITY - PAOT

18

TOTAL CAPACITY - Persons Per Day

53

OBSERVED 1993 (Aug) PARKING OCCUPANCY

Not Checked

Parking Needed for PAOT

7

Parking Supply unknown

Deer Creek (Map #10, 15)

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Deer Creek	Owyhigh Lakes - Lakes	Semi	In-Out/Through	3.00	22.50	4.41	13.24	0.15	1.99	5.29	5.00
Deer Creek	Owyhigh Lakes - 123	Semi	In-Out/Through	4.00	30.00	4.41	17.65	0.05	0.79	1.59	2.00
Deer Creek	Eastside (North)	Semi	In-Out	3.00	22.50	3.75	11.25	1.00	11.25	30.00	1.00
Deer Creek	Eastside (South)	Semi	In-Out	3.00	22.50	3.75	11.25	1.00	11.25	30.00	1.00
TOTAL									25.28	66.88	9.00

Wilderness Management Units - Day and Overnight Use

Wilderness Management Units - Day and Overnight Use												
						Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide Usable Acres							
XGVR	PRISTINE	BACKCOUNTRY	GOVERNORS RIDGE	Deer Creek	3	869.93	0.13	145.50	1164.00	2.00	6.00	3.00
TOTAL									2.00	6.00	3.00	0.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCDR	SEMI-PRIMITIVE	CAMP	DEER CREEK	Deer Creek	BCDR	7.7220	7.74	135.00	2.00	164.00
BCTC	SEMI-PRIMITIVE	CAMP	TAMANGS CREEK CAMP	Deer Creek	BCTC	7.7270	7.74	157.00	4.00	171.00
TOTAL									6.00	

TOTAL CAPACITY - PAOT

37

TOTAL CAPACITY - Persons per Day

76

OBSERVED 1993 (Aug) PARKING OCCUPANCY

Not Checked

Parking Needed for PAOT

14 Parking supply unknown

Fryingpan (Map #11)

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use, (Attach. 5)	1996 Observed Daily Use
Frying Pan	Wonderland-W.R.to Summerland	Semi	In-Out/Through	6.00	45.00	4.41	26.47	0.85	22.50	30.00	50.00	
Frying Pan	Wonderland - Summer. to Indian Bar	Semi	In-Out	3.00	22.50	3.75	11.25	0.38	4.22	11.25	1.88	
Frying Pan	Wonderland - Indian Bar to Box Canyon	Semi	In-Out	4.00	30.00	3.75	15.00	0.10	1.50	3.00	1.00	
TOTAL									28.22	44.25	52.88	189.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity/people per night	Existing Use (camper nights per yr)
ALIT	PRIMITIVE	BACKCOUNTRY	LITTLE TAHOMA	Fryingpan	1.00	2354.26	0.25	285.66	1142.65	2.06	6.18	6.00	124.00
AFRG	PRISTINE	GLACIER	FRYINGPAN GLACIER	Fryingpan	1.00	1297.02	0.13	285.66	2285.31	2.00	6.00		
AFRG	PRISTINE	GLACIER	FRYINGPAN GLACIER	Fryingpan	1.00	187.84	0.13	285.66	2285.31	2.00	6.00		
AGOA	PRISTINE	BACKCOUNTRY	GOAT ISLAND MTN	Fryingpan	1.00	734.03	0.13	285.66	2285.31	2.00	6.00	6.00	17.00
XFRY	PRISTINE	BACKCOUNTRY	FRYINGPAN	Fryingpan	2.00	315.57	0.13	210.89	1687.14	2.00	6.00	3.00	30.00
XGLO	PRISTINE	BACKCOUNTRY	LOWER GOAT ISLAND MTN	Fryingpan	5.00	1634.04	0.13	42.85	342.84	4.77	14.30		
XLFR	PRISTINE	BACKCOUNTRY	LOWER FRYINGPAN	Fryingpan	5.00	614.02	0.13	42.85	342.84	2.00	6.00		
XLFR	PRISTINE	BACKCOUNTRY	LOWER FRYINGPAN	Fryingpan	5.00	2.75	0.13	42.85	342.84	2.00	6.00		
ASAR	PRISTINE	BACKCOUNTRY	SARVENT ALPINE	White River	1.00	719.85	0.13	285.66	2285.31	2.00	6.00	3.00	33.00
AMOU	PRISTINE	BACKCOUNTRY	MOUNT RUTH	White River	1.00	360.51	0.13	285.66	2285.31	2.00	6.00	6.00	12.00
TOTAL										22.83	68.48	24.00	216.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)	Campers/Day (60 Typical Nights)
BCSC	TRANSITION	CAMP	SUMMERLAND CAMP	Fryingpan	BCSC	7.7240	7.74	678.00	20.00	791.00	13.18
TOTAL										791.00	

TOTAL CAPACITY - PAOT 117

TOTAL CAPACITY - Persons per Day 117

OBSERVED 1993 (Aug) PARKING OCCUPANCY

Parking Needed for PAOT 89% 24 vehicles = about 72.00 PAOT assuming 3 persons per vehicle

43 90 % occupancy standard Parking supply = 27 spaces

Hourly Demand Factor source: 1993 study 17.37%

Hourly Demand at max. capacity 20

Green Lake (Map #4) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from	Max Users per Day from Trailhead	Per Day Estimated Use
Green Lake	Green Lake	Semi	In-Out	2.00	15.00	3.75	7.50	1.00	7.50	30.00	5.00
TOTAL									7.50	30.00	5.00

TOTAL CAPACITY - PAOT 8
TOTAL CAPACITY - Persons per Day 30

OBSERVED 1993 (Aug) PARKING OCCUPANCY Not Checked
Parking Needed at PAOT 3

Parking supply unknown

Hourly Factor 25.00% Assumed
Hourly Demand 7.50

Grove of Patriarchs (Map #9, 16)

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time On Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Grove of Patriarchs	Eastside	Semi	In-Out	3.00	22.50	3.75	11.25	1.00	11.25	30.00	10.50
TOTAL									11.25	30.00	10.50

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
TOTAL										0.00	0.00	0.00

Non-Wilderness Trail

GROVE OF THE PATRIARCHS - TOTAL

PAOT People Per Day
73 390

TOTAL 0.00

TOTAL CAPACITY - PAOT

84

TOTAL CAPACITY - Persons per Day

420

OBSERVED 1993 (Aug) PARKING OCCUPANCY

71% 20 vehicles = about

60

PAOT

Parking Needed for PAOT

31 Parking supply =

28

spaces

Ipsut Creek (Map #4) - Total Visitation Capacity
Alternative 2 - Proposed Action

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Ipsut Creek	Wonderland - Mowich to Ipsut Pass	Semi	In-Out	3.00	22.50	3.75	11.25	0.50	5.63	15.00	50.00
Ipsut Creek	Wonderland - Ipsut Pass to Ipsut	Semi	In-Out	2.00	15.00	3.75	7.50	0.50	3.75	15.00	2.50
Ipsut Creek	Wonderland - Ipsut to Carbon Glacier	Semi	In-Out/Through	3.00	22.50	4.17	12.50	1.00	12.50	33.33	60.00
Ipsut Creek	Wonderland - Carbon Glacier to Mystic	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.20	4.17	6.67	12.00
Ipsut Creek	Wonderland - Mystic to Sunrise	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.35	7.29	11.67	3.00
Ipsut Creek	Northern Loop	Semi	Loop	24.00	180.00	7.50	180.00	0.35	63.00	63.00	4.50
TOTAL									96.33	144.67	132.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
ACAG	PRISTINE	GLACIER	CARBON GLACIER	Ipsut	1.00	2595.56	0.13	285.66	2285.31	2.00	6.00		
ACAR	PRIMITIVE	BACKCOUNTRY	CARBON ALPINE	Ipsut	1.00	782.83	0.25	285.66	1142.55	2.00	6.00	9.00	149.00
ACRE	PRISTINE	BACKCOUNTRY	CRESENT LAKE	Ipsut	1.00	904.14	0.13	285.66	2285.31	2.00	6.00	6.00	7.00
											0.00		
AOLD	PRISTINE	BACKCOUNTRY	OLD DESOLATE	Ipsut	1.00	352.39	0.13	285.66	2285.31	2.00	6.00	6.00	2.00
XALK	PRISTINE	BACKCOUNTRY	ALKI CREST	Ipsut	2.00	338.69	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	216.40	0.13	42.85	342.84	2.00	6.00	unlimited	20.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	93.67	0.13	42.85	342.84	2.00	6.00		
XCAN	PRISTINE	BACKCOUNTRY	NORTH CARBON RIVER	Ipsut	5.00	1829.92	0.13	42.85	342.84	5.34	16.01		
XCAW	PRISTINE	BACKCOUNTRY	CARBON RIVER WEST	Ipsut	5.00	1193.03	0.13	42.85	342.84	3.48	10.44		
XCHE	PRISTINE	BACKCOUNTRY	CHENUIS LAKES	Ipsut	2.00	149.23	0.13	210.89	1687.14	2.00	6.00	6.00	15.00
XECH	PRISTINE	BACKCOUNTRY	ECHO CLIFFS	Ipsut	5.00	298.07	0.13	42.85	342.84	2.00	6.00		
XEYS	PRISTINE	BACKCOUNTRY	ELYSIAN FIELDS	Ipsut	2.00	382.65	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1604.82	0.13	42.85	342.84	4.68	14.04		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	0.52	0.13	42.85	342.84	2.00	6.00		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1.29	0.13	42.85	342.84	2.00	6.00		
XLWF	PRISTINE	BACKCOUNTRY	LOWER WEST FORK	Ipsut	5.00	2866.32	0.13	42.85	342.84	8.36	25.08		
XMIN	PRISTINE	BACKCOUNTRY	MINERAL MOUNTAIN	Ipsut	3.00	381.28	0.13	145.50	1164.00	2.00	6.00	9.00	17.00
XNOR	PRIMITIVE	BACKCOUNTRY	NORTHERN LAKES	Ipsut	4.00	673.96	0.25	89.49	357.95	2.00	6.00	9.00	13.00
XSEA	PRISTINE	BACKCOUNTRY	SEATTLE PARK	Ipsut	2.00	375.64	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XTIR	PRISTINE	BACKCOUNTRY	TIRZAH PEAK	Ipsut	5.00	2198.36	0.13	42.85	342.84	6.41	19.24		
XTYE	PRISTINE	BACKCOUNTRY	TYEE PEAK	Ipsut	1.00	514.95	0.13	285.66	2285.31	2.00	6.00	10.00	5.00
XUPC	PRISTINE	BACKCOUNTRY	UPPER CARBON RIVER	Ipsut	5.00	832.90	0.13	42.85	342.84	2.43	7.29		
XVER	PRISTINE	BACKCOUNTRY	VERNAL PARK	Ipsut	2.00	297.66	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
TOTAL									24012.74	65	194.10	85	154

Ipsut Creek (Map #4) - Total Visitation Capacity (Continued)

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
BCCR	SEMI-PRIMITIVE	CAMP	CARBON RIVER CAMP	Ipsut Creek	BCCR	7.7270	7.74	352.00	4.00	380.00
BCDC	SEMI-PRIMITIVE	CAMP	DICK CREEK CAMP	Ipsut Creek	BCDC	7.7180	7.73	158.00	6.00	175.00
BCML	SEMI-PRIMITIVE	CAMP	MYSTIC LAKE CAMP	Ipsut Creek	BCML	7.7180	7.73	716.00	31.00	792.00
BCRC	SEMI-PRIMITIVE	CAMP	REDSTONE CAMP	Ipsut Creek	BCRC	7.6890	7.61	94.00	6.00	111.00
BCYC	SEMI-PRIMITIVE	CAMP	YELLOWSTONE CLIFF C	Ipsut Creek	BCYC	7.7390	7.76	84.00	6.00	103.00
Total									53.00	1561.00

TOTAL

Facilities/Front Country

	Units	Type	Factor	PAOT	Persons/Day
Ipsut Creek Campground	28.00	sites	3.00 persons/site	84.00	84.00
Carbon River Trail	6.00	trails	16.92 persons/mi	101.54	152.31
New Campground	50.00	sites	3.00 persons/site	150.00	150.00
Picnic Area - Existing	0.00	tables	3.00 persons/table	0.00	0.00 Assume 2 turns
Picnic Area - New	15.00	tables	3.00 persons/table	45.00	90.00 Assume 2 turns
Picnic Area - New	0.00	tables	3.00 persons/table	0.00	0.00 Assume 2 turns
Picnic Area - New	35.00	tables	3.00 persons/table	105.00	210.00 Assume 2 turns
TOTAL				486	686

CAPACITY - PAOT

CAPACITY - Persons per day

Persons per Day - MISC FRONT COUNTRY

TOTAL PAOT

MAXIMUM USERS/DAY

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY

PARKING NEEDED AT PAOT

Hourly Factor

Hourly Demand

	Total	Day Use	Overnight
Assumes 20% of campers at Ipsut and 75% at new C.G. don't use trails	664	292	372
Assumes 20% of campers at Ipsut and 75% at new C.G. don't use trails	864	492	372
	0	-	-
	0	-	-
	664	292	372
	864	492	372

779 Based on traffic counts entering area in 1993

199% 159 vehicles = about

477

PAOT

246

20.80% 1993 Counts

180

Ipsut Creek (Map #4) - Total Visitation Capacity
Alternative 3

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Ipsut Creek	Wonderland - Mowich to Ipsut Pass	Semi	In-Out	3.00	22.50	3.75	11.25	0.50	5.63	15.00	50.00
Ipsut Creek	Wonderland - Ipsut Pass to Ipsut	Semi	In-Out	2.00	15.00	3.75	7.50	0.50	3.75	15.00	2.50
Ipsut Creek	Wonderland - Ipsut to Carbon Glacier	Semi	In-Out/Through	3.00	22.50	4.17	12.50	1.00	12.50	33.33	60.00
Ipsut Creek	Wonderland - Carbon Glacier to Mystic	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.20	4.17	6.67	12.00
Ipsut Creek	Wonderland - Mystic to Sunrise	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.35	7.29	11.67	3.00
Ipsut Creek	Northern Loop	Semi	Loop	24.00	180.00	7.50	180.00	0.35	63.00	63.00	4.50
TOTAL									96.33	144.67	132.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Utlde	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
ACAG	PRISTINE	GLACIER	CARBON GLACIER	Ipsut	1.00	2595.56	0.13	285.66	2285.31	2.00	6.00		
ACAR	PRIMITIVE	BACKCOUNTRY	CARBON ALPINE	Ipsut	1.00	782.83	0.25	285.66	1142.65	2.00	6.00	9.00	149.00
ACRE	PRISTINE	BACKCOUNTRY	CRESENT LAKE	Ipsut	1.00	904.14	0.13	285.66	2285.31	2.00	6.00	6.00	7.00
AOLD	PRISTINE	BACKCOUNTRY	OLD DESOLATE	Ipsut	1.00	352.39	0.13	285.66	2285.31	2.00	6.00	6.00	2.00
XALK	PRISTINE	BACKCOUNTRY	ALKI CREST	Ipsut	2.00	338.69	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	216.40	0.13	42.85	342.84	2.00	6.00	unlimited	20.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	93.67	0.13	42.85	342.84	2.00	6.00		
XCAN	PRISTINE	BACKCOUNTRY	NORTH CARBON RIVER	Ipsut	5.00	1629.92	0.13	42.85	342.84	5.34	16.61		
XCAW	PRISTINE	BACKCOUNTRY	CARBON RIVER WEST	Ipsut	5.00	1193.03	0.13	42.85	342.84	3.48	10.44		
XCHE	PRISTINE	BACKCOUNTRY	CHENUIS LAKES	Ipsut	2.00	149.23	0.13	210.89	1687.14	2.00	6.00	6.00	15.00
XECH	PRISTINE	BACKCOUNTRY	ECHO CLIFFS	Ipsut	5.00	298.07	0.13	42.85	342.84	2.00	6.00		
XFYS	PRISTINE	BACKCOUNTRY	ELYSIAN FIELDS	Ipsut	2.00	382.65	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1604.82	0.13	42.85	342.84	4.68	14.04		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	0.52	0.13	42.85	342.84	2.00	6.00		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1.29	0.13	42.85	342.84	2.00	6.00		
XLWF	PRISTINE	BACKCOUNTRY	LOWER WEST FORK	Ipsut	5.00	2866.32	0.13	42.85	342.84	8.36	25.08		
XMIN	PRISTINE	BACKCOUNTRY	MINERAL MOUNTAIN	Ipsut	3.00	381.28	0.13	145.50	1164.00	2.00	6.00	9.00	17.00
XNOR	PRIMITIVE	BACKCOUNTRY	NORTHERN LAKES	Ipsut	4.00	673.95	0.25	89.49	357.95	2.00	6.00	9.00	13.00
XSEA	PRISTINE	BACKCOUNTRY	SEATTLE PARK	Ipsut	2.00	375.64	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XTIR	PRISTINE	BACKCOUNTRY	TIRZAH PEAK	Ipsut	5.00	2198.36	0.13	42.85	342.84	6.41	19.24		
XTYE	PRISTINE	BACKCOUNTRY	TYEE PEAK	Ipsut	1.00	514.95	0.13	285.66	2285.31	2.00	6.00	10.00	5.00
XUPC	PRISTINE	BACKCOUNTRY	UPPER CARBON RIVER	Ipsut	5.00	832.90	0.13	42.85	342.84	2.43	7.29		
XVER	PRISTINE	BACKCOUNTRY	VERNAL PARK	Ipsut	2.00	297.66	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
TOTAL									24012.74	65	194.10	85	154

Ipsut Creek (Map #4) - Total Visitation Capacity (Continued)

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
BCCR	SEMI-PRIMITIVE	CAMP	CARBON RIVER CAMP	Ipsut Creek	BCCR	7.7270	7.74	352.00	4.00	380.00
BCDC	SEMI-PRIMITIVE	CAMP	DICK CREEK CAMP	Ipsut Creek	BCDC	7.7180	7.73	158.00	6.00	175.00
BCML	SEMI-PRIMITIVE	CAMP	MYSTIC LAKE CAMP	Ipsut Creek	BCML	7.7180	7.73	716.00	31.00	792.00
BCRC	SEMI-PRIMITIVE	CAMP	REDSTONE CAMP	Ipsut Creek	BCRC	7.5890	7.61	94.00	6.00	111.00
BCYC	SEMI-PRIMITIVE	CAMP	YELLOWSTONE CLIFF	Ipsut Creek	BCYC	7.7390	7.76	84.00	6.00	103.00
Total									53.00	1561.00

TOTAL

Facilities/Front Country

	Units	Type	Factor	PAOT	Persons/Day
Ipsut Creek Campground	0.00	sites	3.00 persons/site	0.00	0.00
Carbon River Trail	6.00	miles	16.92 persons/mi	101.54	152.31
New Campground	35.00	sites	3.00 persons/site	105.00	105.00
Picnic Area - Existing	0.00	tables	3.00 persons/table	0.00	0.00 Assume 2 turns
Picnic Area - New	10.00	tables	3.00 persons/table	30.00	60.00 Assume 2 turns
Picnic Area - New	0.00	tables	3.00 persons/table	0.00	0.00 Assume 2 turns
Picnic Area - New	35.00	tables	3.00 persons/table	105.00	210.00 Assume 2 turns
TOTAL				342	527

Assumes 20% of campers at Ipsut and 75% at new C.G. don't use trails	Total	Day Use	Overnight
CAPACITY - PAOT	598	355	243
CAPACITY - Persons per day	784	541	243

Persons per Day - MISC FRONT COUNTRY

TOTAL PAOT	598	355	243
MAXIMUM USERS/DAY	784	541	243

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY	779	Based on traffic counts entering area in 1993	
PARKING NEEDED AT PAOT	199%	159 vehicles = about	477 PAOT
	221		

Hourly Factor	20.80%	1993 Counts
Hourly Demand	163	

Ipsut Creek (Map #4) - Total Visitation Capacity
Alternative 4

MORCAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Total Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Ipsut Creek	Wonderland - Mowich to Ipsut Pass	Semi	In-Out	3.00	22.50	3.75	11.25	0.50	5.63	15.00	50.00
Ipsut Creek	Wonderland - Ipsut Pass to Ipsut	Semi	In-Out	2.00	15.00	3.75	7.50	0.50	3.75	15.00	2.50
Ipsut Creek	Wonderland - Ipsut to Carbon Glacier	Semi	In-Out/Through	3.00	22.50	4.17	12.50	1.00	12.50	33.33	60.00
Ipsut Creek	Wonderland - Carbon Glacier to Mystic	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.20	4.17	6.67	12.00
Ipsut Creek	Wonderland - Mystic to Sunrise	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.35	7.29	11.67	3.00
Ipsut Creek	Northern Loop	Semi	Loop	24.00	180.00	7.50	180.00	0.35	63.00	63.00	4.50
TOTAL									66.33	144.67	132.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camping nights per yr)
ACAG	PRISTINE	GLACIER	CARBON GLACIER	Ipsut	1.00	2595.56	0.13	285.66	2285.31	2.00	6.00		
ACAR	PRIMITIVE	BACKCOUNTRY	CARBON ALPINE	Ipsut	1.00	782.83	0.25	285.66	1142.65	2.00	6.00	9.00	149.00
ACRE	PRISTINE	BACKCOUNTRY	CRESENT LAKE	Ipsut	1.00	904.14	0.13	285.66	2285.31	2.00	6.00	6.00	7.00
AOLD	PRISTINE	BACKCOUNTRY	OLD DESOLATE	Ipsut	1.00	352.39	0.13	285.66	2285.31	2.00	6.00	6.00	2.00
XALK	PRISTINE	BACKCOUNTRY	ALKI CREST	Ipsut	2.00	338.69	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	216.40	0.13	42.85	342.84	2.00	6.00	unlimited	20.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	93.67	0.13	42.85	342.84	2.00	6.00		
XCAN	PRISTINE	BACKCOUNTRY	NORTH CARBON RIVER	Ipsut	5.00	1829.92	0.13	42.85	342.84	5.34	16.01		
XCAW	PRISTINE	BACKCOUNTRY	CARBON RIVER WEST	Ipsut	5.00	1193.03	0.13	42.85	342.84	3.48	10.44		
XCHE	PRISTINE	BACKCOUNTRY	CHENUIS LAKES	Ipsut	2.00	149.23	0.13	210.89	1687.14	2.00	6.00	6.00	15.00
XECH	PRISTINE	BACKCOUNTRY	ECHO CLIFFS	Ipsut	5.00	298.07	0.13	42.85	342.84	2.00	6.00		
XEYS	PRISTINE	BACKCOUNTRY	ELYSIAN FIELDS	Ipsut	2.00	382.65	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1604.82	0.13	42.85	342.84	4.68	14.04		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	0.52	0.13	42.85	342.84	2.00	6.00		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1.29	0.13	42.85	342.84	2.00	6.00		
XLWF	PRISTINE	BACKCOUNTRY	LOWER WEST FORK	Ipsut	5.00	2866.32	0.13	42.85	342.84	8.36	25.08		
XMIN	PRISTINE	BACKCOUNTRY	MINERAL MOUNTAIN	Ipsut	3.00	381.28	0.13	145.50	1164.00	2.00	6.00	9.00	17.00
XNOR	PRIMITIVE	BACKCOUNTRY	NORTHERN LAKES	Ipsut	4.00	673.96	0.25	89.49	357.95	2.00	6.00	9.00	13.00
XSEA	PRISTINE	BACKCOUNTRY	SEATTLE PARK	Ipsut	2.00	375.64	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XTIR	PRISTINE	BACKCOUNTRY	TIRZAH PEAK	Ipsut	5.00	2198.36	0.13	42.85	342.84	6.41	19.24		
XIYE	PRISTINE	BACKCOUNTRY	TYEE PEAK	Ipsut	1.00	514.95	0.13	285.66	2285.31	2.00	6.00	10.00	5.00
XUPC	PRISTINE	BACKCOUNTRY	UPPER CARBON RIVER	Ipsut	5.00	832.90	0.13	42.85	342.84	2.43	7.29		
XVER	PRISTINE	BACKCOUNTRY	VERNAL PARK	Ipsut	2.00	297.66	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
TOTAL									24012.74	65	194.10	85	154

Ipsut Creek (Map #4) - Total Visitation Capacity (Continued)

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Capacity (people per night)	Existing Use (camper nights per yr)
BCCR	SEMI-PRIMITIVE	CAMP	CARBON RIVER CAMP	Ipsut Creek	BCCR	7.7270	7.74	352.00	4.00	380.00
BCDC	SEMI-PRIMITIVE	CAMP	DICK CREEK CAMP	Ipsut Creek	BCDC	7.7180	7.73	158.00	6.00	175.00
BCML	SEMI-PRIMITIVE	CAMP	MYSTIC LAKE CAMP	Ipsut Creek	BCML	7.7180	7.73	716.00	31.00	732.00
BCRC	SEMI-PRIMITIVE	CAMP	REDSTONE CAMP	Ipsut Creek	BCRC	7.5890	7.61	94.00	6.00	111.00
BCYC	SEMI-PRIMITIVE	CAMP	YELLOWSTONE CLIFF	Ipsut Creek	BCYC	7.7390	7.76	84.00	6.00	103.00
Total									53.00	1561.00

TOTAL

Facilities/Front Country

	Units	Type	Factor	PAOT	Persons/Day
Ipsut Creek Campground	29.00	sites	3.00 persons/site	87.00	87.00
Carbon River Trail	0.00	miles	16.92 persons/mi	0.00	0.00
New Campground	10.00	sites	3.00 persons/site	30.00	30.00
Picnic Area - Existing	6.00	tables	3.00 persons/table	18.00	36.00 Assume 2 turns
Picnic Area - New	25.00	tables	3.00 persons/table	75.00	150.00 Assume 2 turns
Picnic Area - New	4.00	tables	3.00 persons/table	12.00	24.00 Assume 2 turns
Picnic Area - New	9.00	tables	3.00 persons/table	24.00	48.00
Picnic Area - New	25.00	tables	3.00 persons/table	75.00	150.00 Assume 2 turns
TOTAL	107.00			321	625

CAPACITY - PAOT

CAPACITY - Persons per day

Misc Front Country PAOT - 15 percent of all other

Persons per Day - MISC FRONT COUNTRY

TOTAL PAOT

MAXIMUM USERS/DAY

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY

PARKING NEEDED AT PAOT

Trailhead Parking Needed

Hourly Factor

Hourly Demand

Total	Day Use	Overnight
527	272	255
731	476	255
79	79	-
197	197	-
606	351	255
928	673	255

779 Based on traffic counts entering area in 1993
 199% 159 vehicles - about 477 PAOT
 224 Parking supply = 80 spaces
 94
 20.80% 1993 Counts
 193

Ipsut Creek (Map #4) - Total Visitation Capacity

moracapy7-6.xls

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Ipsut Creek	Wonderland - Mowich to Ipsut Pass	Semi	In-Out	3.00	22.50	3.75	11.25	0.50	5.63	15.00	50.00
Ipsut Creek	Wonderland - Ipsut Pass to Ipsut	Semi	In-Out	2.00	15.00	3.75	7.50	0.50	3.75	15.00	2.50
Ipsut Creek	Wonderland - Ipsut to Carbon Glacier	Semi	In-Out/Through	3.00	22.50	4.17	12.50	1.00	12.50	33.33	60.00
Ipsut Creek	Wonderland - Carbon Glacier to Mystic	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.20	4.17	6.67	12.00
Ipsut Creek	Wonderland - Mystic to Sunrise	Semi	In-Out/Through	5.00	37.50	4.17	20.83	0.35	7.29	11.67	3.00
Ipsut Creek	Northern Loop	Semi	Loop	24.00	180.00	7.50	180.00	0.35	63.00	63.00	4.50
TOTAL									96.33	144.67	132.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (campor nights per yr)
ACAG	PRISTINE	GLACIER	CARBON GLACIER	Ipsut	1.00	2505.56	0.13	285.66	2285.31	2.00	6.00		
ACAR	PRIMITIVE	BACKCOUNTRY	CARBON ALPINE	Ipsut	1.00	782.83	0.25	285.66	1142.65	2.00	6.00	9.00	149.00
ACRE	PRISTINE	BACKCOUNTRY	CRESENT LAKE	Ipsut	1.00	904.14	0.13	285.66	2285.31	2.00	6.00	6.00	7.00
AOLD	PRISTINE	BACKCOUNTRY	OLD DESOLATE	Ipsut	1.00	352.39	0.13	285.66	2285.31	2.00	6.00	6.00	2.00
XALK	PRISTINE	BACKCOUNTRY	ALKI CREST	Ipsut	2.00	338.69	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	216.40	0.13	42.85	342.84	2.00	6.00	unlimited	20.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5.00	93.67	0.13	42.85	342.84	2.00	6.00		
XCAN	PRISTINE	BACKCOUNTRY	NORTH CARBON RIVER	Ipsut	5.00	1829.92	0.13	42.85	342.84	5.34	16.01		
XCAW	PRISTINE	BACKCOUNTRY	CARBON RIVER WEST	Ipsut	5.00	1193.03	0.13	42.85	342.84	3.48	10.44		
XCHE	PRISTINE	BACKCOUNTRY	CHENUIS LAKES	Ipsut	2.00	149.23	0.13	210.89	1687.14	2.00	6.00	6.00	15.00
XECH	PRISTINE	BACKCOUNTRY	ECHO CLIFFS	Ipsut	5.00	298.07	0.13	42.85	342.84	2.00	6.00		
XEYS	PRISTINE	BACKCOUNTRY	ELYSIAN FIELDS	Ipsut	2.00	382.65	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1604.82	0.13	42.85	342.84	4.68	14.04		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	0.52	0.13	42.85	342.84	2.00	6.00		
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5.00	1.29	0.13	42.85	342.84	2.00	6.00		
XLWF	PRISTINE	BACKCOUNTRY	LOWER WEST FORK	Ipsut	5.00	2866.32	0.13	42.85	342.84	8.36	25.08		
XMIN	PRISTINE	BACKCOUNTRY	MINERAL MOUNTAIN	Ipsut	3.00	381.28	0.13	145.50	1164.00	2.00	6.00	9.00	17.00
XNOR	PRIMITIVE	BACKCOUNTRY	NORTHERN LAKES	Ipsut	4.00	673.96	0.25	89.49	357.95	2.00	6.00	9.00	13.00
XSEA	PRISTINE	BACKCOUNTRY	SEATTLE PARK	Ipsut	2.00	375.64	0.13	210.89	1687.14	2.00	6.00	6.00	37.00
XTIR	PRISTINE	BACKCOUNTRY	TIRZAH PEAK	Ipsut	5.00	2198.36	0.13	42.85	342.84	6.41	19.24		
XTYE	PRISTINE	BACKCOUNTRY	TYEE PEAK	Ipsut	1.00	514.95	0.13	285.66	2285.31	2.00	6.00	10.00	5.00
XUPC	PRISTINE	BACKCOUNTRY	UPPER CARBON RIVER	Ipsut	5.00	832.90	0.13	42.85	342.84	2.43	7.29		
XVER	PRISTINE	BACKCOUNTRY	VERNAL PARK	Ipsut	2.00	297.66	0.13	210.89	1687.14	2.00	6.00	6.00	4.00
TOTAL									24012.74	65	194.10	85	154

Ipsut Creek (Map #4) - Total Visitation Capacity (Continued)

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
BCCR	SEMI-PRIMITIVE	CAMP	CARBON RIVER CAMP	Ipsut Creek	BCCR	7.7270	7.74	352.00	4.00	360.00
BCDC	SEMI-PRIMITIVE	CAMP	DICK CREEK CAMP	Ipsut Creek	BCDC	7.7180	7.73	158.00	6.00	175.00
BCML	SEMI-PRIMITIVE	CAMP	MYSTIC LAKE CAMP	Ipsut Creek	BCML	7.7180	7.73	716.00	31.00	792.00
BCRC	SEMI-PRIMITIVE	CAMP	REDSTONE CAMP	Ipsut Creek	BCRC	7.5890	7.61	94.00	6.00	111.00
BCYC	SEMI-PRIMITIVE	CAMP	YELLOWSTONE CLIFF	Ipsut Creek	BCYC	7.7390	7.76	84.00	6.00	103.00
Total									52.00	1561.00

TOTAL

Facilities/Front Country

	Units	Type	Factor	PAOT	Persons/Day
Ipsut Creek Campground	29.00	sites	3.00 persons/site	87.00	87.00
Carbon River Trail	0.00	mi/ks	16.92 persons/mi	0.00	0.00
New Campground	10.00	sites	3.00 persons/site	30.00	30.00
Picnic Area - Existing	6.00	tables	3.00 persons/table	18.00	36.00 Assume 2 turns
Picnic Area - New	15.00	tables	3.00 persons/table	45.00	90.00 Assume 2 turns
Picnic Area - New	4.00	tables	3.00 persons/table	12.00	24.00 Assume 2 turns
Picnic Area - New	8.00	tables	3.00 persons/table	24.00	48.00
Picnic Area - New	20.00	tables	3.00 persons/table	60.00	120.00 Assume 2 turns
TOTAL	92.00			276	435

Assumes 20% of campers at Ipsut and
75% at new C.G. don't use trails
Assumes 20% of campers at Ipsut and
75% at new C.G. don't use trails

CAPACITY - PAOT

CAPACITY - Persons per day

Misc Front Country PAOT - 10 percent of all other

Persons per Day - MISC FRONT COUNTRY

TOTAL PAOT

MAXIMUM USERS/DAY

Total	Day-Use	Overnight
482	227	255
641	386	255
48	48	-
120	120	-
530	275	255
761	506	255

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY

PARKING NEEDED AT PAOT

779 Based on traffic counts entering area in 1993
199% 159 vehicles = about 477 PAOT
196

Hourly Factor

Hourly Demand

20.80% 1993 Counts
158

Kautz Creek (Map #1) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use, Att. 6	1995 Est. Weekend w/ Good Weather
Kautz Creek	Mirror Lakes	Semi	In-Out	1.50	11.25	3.75	5.63	0.33	1.86	9.90	3.33	
Kautz Creek	Kautz Creek to Bridge	Semi	In-Out	2.00	15.00	3.75	7.50	1.00	7.50	30.00	60.00	
Kautz Creek	Kautz Creek-Top	Semi	In-Out	5.00	37.50	3.75	18.75	0.50	9.38	15.00	12.00	
		Subtotal					26.25		16.88	30.00	63.33	
Kautz Creek	Wonderland - IH to Tahoma Creek Trail	Semi	In-Out	2.00	15.00	3.75	7.50	0.33	2.48	9.90	1.00	
Kautz Creek	Wonderland - IH to Emerald	Semi	Through	3.00	22.50	7.50	22.50	0.13	2.81	7.50	1.25	
Kautz Creek	Wonderland - Emerald to Klapatche	Semi	Through	5.00	37.50	7.50	37.50	0.10	3.75	6.00	2.50	
TOTAL									27.77	63.30	143.41	80.00

These estimates include front-country areas

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XARA	PRIMITIVE	BACKCOUNTRY	MOUNT ARARAT	Kautz	3	331.77	0.25	145.50	582.00	2.00	6.00	
XPYR	PRIMITIVE	BACKCOUNTRY	PYRAMID PEAK	Kautz	3	796.60	0.25	145.50	582.00	2.00	6.00	15.00
XSAT	PRIMITIVE	BACKCOUNTRY	SATULICK MOUNTAIN	Kautz	3	437.18	0.25	145.50	582.00	2.00	6.00	137.00
ASTK	PRISTINE	GLACIER	S TAHOMA/KAUTZ GLACIER	Kautz	1	631.87	0.13	285.66	2285.31	2.00	6.00	
ASTK	PRISTINE	GLACIER	S TAHOMA/KAUTZ GLACIER	Kautz	1	42.07	0.13	285.66	2285.31	2.00	6.00	
ASTK	PRISTINE	GLACIER	S TAHOMA/KAUTZ GLACIER	Kautz	1	367.69	0.13	285.66	2285.31	2.00	6.00	
XKAU	PRISTINE	BACKCOUNTRY	LOWER KAUTZ CREEK	Kautz	5	2513.82	0.13	42.85	342.84	7.33	22.00	
XUPK	PRISTINE	BACKCOUNTRY	UPPER KAUTZ CREEK	Kautz	5	1168.78	0.13	42.85	342.84	3.41	10.23	
TOTAL									22.74	68.22	15.00	137.00

Front Country Trails

	Capacity - PAOT Capacity - Persons/Day	Daily Use
Kautz Creek Non-Wilderness	3.30 Avg. Stay = 1 hrs	see above
Kautz Creek Overlook	24.40	100.00
TOTAL	28	100

TOTAL CAPACITY - PAOT

TOTAL CAPACITY - Persons Per Day

OBSERVED 1993 (Aug) PARKING OCCUPANCY PARKING NEEDED AT PAOT

48% 26 vehicles = about	78.00 PAOT at 3.0 persons/vehicle	
46 90 percent occupancy standard	Parking supply =	54 spaces

Hourly Factor	source: 1993 Study	17.37%
Hourly Demand		52

Lake Louise (Map #8) - Total Visitation Demand

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Attach. 5)
Lake Louise	Lake Louise	Semi	In-Out	2.00	15.00	3.75	7.50	1.00	7.50	30.00	3.00
Lake Louise	Wonderland - Box Can to Reflection	Semi	In-Out	4.00	30.00	3.75	15.00	0.40	6.00	12.00	3.00
TOTAL									14	42	6

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
TOTAL										0.00	0.00	0.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
TOTAL									0.00	

TOTAL CAPACITY - PAOT

14

TOTAL CAPACITY - Persons per Day

42

OBSERVED 1993 (Aug) PARKING OCCUPANCY

45% 9 vehicles = about 27 PAOT assuming 3 people per vehicle. Very short satys.

Parking Needed at PAOT

5 90 percent occupancy standard. Does not include viewing Parking supply = 20 spaces

Hourly Demand

27 average stay is 30 minutes

Longmire / Maternity Curve (Map #1) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Attach 5)	1995 Estimated Weekend w/ Good Weather
Community Bldg	Eagle Peak	Semi	In-Out	5.00	37.50	3.75	18.75	1.00	18.75	30.00	12.00	16.00
Longmire	Rampart Ridge	Transition	Loop	4.00	50.00	8.75	35.00	0.75	26.25	52.50	26.25	43.00
Longmire	Mirror Lakes	Semi	In-Out	1.50	11.25	3.75	5.63	0.33	1.86	9.90	3.33	
Longmire	Wonderland IH to Tahoma Creek	Semi	In-Out/Through	2.00	15.00	4.17	8.33	0.33	2.75	11.00	1.00	
Longmire	Wonderland to Rampart Ridge	Transition	In-Out/Through	2.00	25.00	6.94	13.89	0.85	11.91	55.56	42.60	36.00
Longmire	Rampart Ridge to Indian Henrys	Semi	In-Out/Through	6.00	45.00	4.29	25.71	0.60	15.43	20.57	30.00	
Longmire	Wonderland - IH to Emerald	Semi	Through	3.00	22.50	7.50	22.50	0.13	2.81	7.50	1.25	
Longmire	Wonderland - Emerald to Klapatche	Semi	Through	5.00	37.50	7.50	37.50	0.15	5.63	9.00	2.50	
Longmire	Wonderland - Reflection to Longmire	Semi	In-Out/Through	3.00	22.50	5.00	15.00	0.15	2.25	6.00	6.00	
Longmire	Kautz Creek-Top	Semi	In-Out	5.00	37.50	3.75	18.75	0.50	9.38	15.00	12.00	
Maternity Curve	Rampart Ridge	Transition	Loop	4.00	50.00	8.75	35.00	0.25	8.75	17.50	8.75	
Maternity Curve	Wonderland - Reflection to Longmire	Semi	One-way	3.00	22.50	5.00	15.00	1.00	15.00	40.00	40.00	
TOTAL									120.65	274.53	185.58	199.83

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XEAS	PRISTINE	BACKCOUNTRY	EAGLE PEAK SOUTH	5.00	1022.83	0.13	42.85	342.84	2.98	8.95		
XRAM	PRISTINE	BACKCOUNTRY	THE RAMPARTS	5.00	190.61	0.13	42.85	342.84	2.00	6.00		
XRIC	PRISTINE	BACKCOUNTRY	RICKSECKER POINT	5.00	521.27	0.13	42.85	342.84	2.00	6.00		
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	5.00	2.00	0.13	42.85	342.84	2.00	6.00		
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	5.00	984.11	0.13	42.85	342.84	2.87	8.61		
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	3.00	504.97	0.25	145.50	582.00	2.00	6.00		
XMIR	PRISTINE	BACKCOUNTRY	MIRROR LAKES	5.00	96.19	0.13	42.85	342.84	2.00	6.00		
TOTAL									15.85	47.56	47.56	0.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCDD	SEMI-PRIMITIVE	CAMP	DEVILS DREAM CAMP	Longmire/Maternity	BCDD	7.7280	7.74	731.00	26.00	816.00
BCGL	SEMI-PRIMITIVE	CAMP	GOLDEN LAKES CAMP	Longmire/Maternity	BCGL	7.7250	7.74	477.00	20.00	546.00
BCPR	SEMI-PRIMITIVE	CAMP	PARADISE RIVER CAMP	Longmire/Maternity	BCPR	7.7110	7.73	384.00	6.00	441.00
BCPC	SEMI-PRIMITIVE	CAMP	PYRAMID CREEK CAMP	Longmire/Maternity	BCPC	7.7300	7.75	243.00	6.00	279.00
TOTAL									58.00	2082.00

Front Country Trails

Trail of the Shadows	Capacity - PAOT	Capacity - Persons Per Day (1.4 hour stay)	Estimated Daily Use	1995 Study
	69	394	238.00	

Front Country Facilities

Units	Type	Factor	PAOT	Persons/Day
National Park Inn	Rooms	3.00	75	Note: only 10 % of rooms assumed to be occupied at max PAOT
National Park Inn - Restaurant/Lobby	SF	28.75	35	Note: Assume that new wing adds 10 rooms
Inn Store	SF	37.90	32	
Wilderness Information Center	SF	28.75	10	
Museum	SF	28.75	33	
Gas Station/Museum	SF	28.75	11	
Picnic Area	Tables	3.00	18	

Total 147 831 Average stay = 85 minutes

TOTAL CAPACITY - PAOT 442

TOTAL CAPACITY - Persons per Day 1,605

OBSERVED 1993 (Aug) PARKING OCCUPANCY

PARKING NEEDED AT PAOT 120% 97 vehicles = about 291 PAOT includes visitors to National Park Inn, museum and other facilities not counted in capacity

164 90 percent occupancy standard Parking supply = 81 spaces

Hourly Factor source: 1993 Study 17.37%

Hourly Demand 278

Longmire

7/6/99

Mowich Lake (Map # 3, #4) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Mowich Lake	Spray Park-Lower	Transition	In-Out	1.50	18.75	6.25	9.38	1.00	9.38	50.00	40.00
Mowich Lake	Spray Park Upper	Semi	In-Out	4.50	33.75	3.75	16.88	0.90	15.19	27.00	36.00
Subtotal	Spray Park						26.25		24.56		
Paul Peak	Paul Peak	Semi	In-Out/Through	4.00	30.00	3.85	15.38	1.00	15.38	30.77	15.00
Mowich Lake	Grindstone	Semi	In-Out/through	1.00	7.50	3.85	3.85	1.00	3.85	30.77	
Mowich Lake	Tohmie Peak	Transition	In-Out	5.00	62.50	6.25	31.25	1.00	31.25	50.00	50.00
Mowich Lake	Wonderland - IH to Emerald	Semi	Through	3.00	22.50	7.50	22.50	0.50	11.25	30.00	5.00
Mowich Lake	Emerald to Klapatche	Semi	Through	5.00	37.50	7.50	37.50	0.50	18.75	30.00	5.00
Mowich Lake	Klapatche to Golden Lakes	Semi	Through	4.00	30.00	7.50	30.00	0.50	15.00	30.00	5.00
Mowich Lake	Golden Lakes to Mowich	Semi	Through	4.00	30.00	7.50	30.00	0.50	15.00	30.00	5.00
Mowich Lake	Wonderland - Mowich to Ipsut Pass	Transition	In-Out	3.00	37.50	6.25	18.75	0.50	9.38	25.00	50.00
Mowich Lake	Wonderland - Ipsut Pass to Ipsut	Semi	In-Out	2.00	15.00	3.75	7.50	0.50	3.75	15.00	2.50
TOTAL									148	348.54	199

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
AMOG	PRISTINE	GLACIER	MOWICH GLACER	Mowich	1.00	1695.89	0.13	285.66	2285.31	2.00	6.00	
AMOT	PRISTINE	BACKCOUNTRY	MOTHER MOUNTAIN	Mowich	1.00	1397.37	0.13	285.66	2285.31	2.00	6.00	6.00
APTA	PRIMITIVE	BACKCOUNTRY	PTARMIGAN RIDGE	Mowich	1.00	3013.21	0.25	285.66	1142.65	2.64	7.51	9.00
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	Mowich	5.00	19.53	0.13	42.85	342.84	1.00	3.00	
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	Mowich	5.00	1384.65	0.13	42.85	342.84	4.04	12.12	
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	Mowich	5.00	14.86	0.13	42.85	342.84	1.00	3.00	
XGOV	PRISTINE	BACKCOUNTRY	GOVE PEAK	Mowich	2.00	312.08	0.13	210.89	1687.14	2.00	6.00	6.00
XLWV	PRISTINE	BACKCOUNTRY	LOWER MOWICH RIVER	Mowich	5.00	893.38	0.13	42.85	342.84	2.61	7.82	
XMIS	PRISTINE	BACKCOUNTRY	MIST PARK	Mowich	2.00	315.99	0.13	210.89	1687.14	2.00	6.00	6.00
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2.00	123.09	0.13	210.89	1687.14	2.00	6.00	
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2.00	45.29	0.13	210.89	1687.14	2.00	6.00	
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2.00	13.40	0.13	210.89	1687.14	1.00	3.00	
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2.00	36.60	0.13	210.89	1687.14	2.00	6.00	
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2.00	1.62	0.13	210.89	1687.14	1.00	3.00	
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2.00	1.02	0.13	210.89	1687.14	1.00	3.00	
XSPN	PRIMITIVE	BACKCOUNTRY	SPRAY PARK NORTH	Mowich	1.00	91.24	0.25	285.66	1142.65	2.00	6.00	
XSPN	PRIMITIVE	BACKCOUNTRY	SPRAY PARK NORTH	Mowich	1.00	45.17	0.25	285.66	1142.65	2.00	6.00	
XSPS	PRIMITIVE	BACKCOUNTRY	SPRAY PARK SOUTH	Mowich	1.00	422.07	0.25	285.66	1142.65	2.00	6.00	6.00
XSUN	PRISTINE	BACKCOUNTRY	SUNSET PARK	Mowich	3.00	54.89	0.13	145.50	1164.00	2.00	6.00	9.00
XSUN	PRISTINE	BACKCOUNTRY	SUNSET PARK	Mowich	3.00	1183.62	0.13	145.50	1164.00	2.00	6.00	
XSUN	PRISTINE	BACKCOUNTRY	SUNSET PARK	Mowich	3.00	310.23	0.13	145.50	1164.00	2.00	6.00	
XUMP	PRISTINE	BACKCOUNTRY	UPPER MOWICH RIVER	Mowich	5.00	3234.18	0.13	42.85	342.84	9.43	28.30	
XVIR	PRISTINE	BACKCOUNTRY	VRIGINA PEAK	Mowich	5.00	1483.58	0.13	42.85	342.84	4.33	12.88	
XVIR	PRISTINE	BACKCOUNTRY	VRIGINA PEAK	Mowich	5.00	1.41	0.13	42.85	342.84	1.00	3.00	
TOTAL									55	165.13	42	230

Mowich Lake (Map # 3, #4) - Total Visitation Capacity (Continued)

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCCV	SEMI-PRIMITIVE	CAMP	CATARACT VALLEY CAMP	Mowich Lake	BCCV	7.7260	7.74	320.00	10.00	337.00
BCER	TRANSITION	CAMP	EAGLES ROOST CAMP	Mowich Lake	BCER	7.6830	7.70	388.00	21.00	486.00
BCMR	SEMI-PRIMITIVE	CAMP	MOWICH RIVER CAMP	Mowich Lake	BCMR	7.7210	7.74	341.00	17.00	405.00
TOTAL									48	1228

Facilities

	Unit	Type	Factor		PAOT	Persons/Day
Campground	20.00	Sites	3.00	people/site	60.00	60.00
Picnic	3.00	Sites	3.00	people/site	9.00	18.00
New Picnic	7.00	Sites	3.00	people/site	21.00	42.00
New Picnic	15.00	Sites	3.00	people/site	45.00	90.00

CAPACITY - PAOT	448	Assumes all but 20 percent of campers hike trails
CAPACITY - Persons per Day	481	Assumes all but 20 percent of campers and picnickers hike trails
PAOT MISC FRONT COUNTRY - 15 % of all other	67	
Persons per Day - MISC FRONT COUNTRY	134	
TOTAL PAOT	516	
MAXIMUM USERS/DAY	615	

TOTAL CURRENT USE	953	Based on traffic counts approaching Lake
OBSERVED 1993 (Aug) PARKING OCCUPANCY	352%	176 vehicles = about 528 PAOT
Parking Needed at PAOT	191	90 percent occupancy standard Parking Supply 50 spaces

Hourly Factor	17.95%
Hourly Demand	86

Day Use PAOT	408
Overnight PAOT	150
Overnight at MAX	108

Ohanapecosh (Map #9, 16)
Day Use of Wilderness Trails

MORACAPY2-10.XLS

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Laughingwater	Pacific Crest	Semi	In-Out/Through	8.00	60.00	5.00	40.00	0.20	8.00	8.00	3.00
Laughingwater	Laughingwater	Semi	In-Out/Through	8.00	60.00	3.85	30.77	1.00	30.77	30.77	5.00
Ollalie Creek	Wonderland - Summer. t	Semi	In-Out	3.00	22.50	3.75	11.25	0.13	1.41	3.75	1.88
Ollalie Creek	Wonderland - Indian Bar	Semi	In-Out	4.00	30.00	3.75	15.00	0.10	1.50	3.00	1.00
Ollalie Creek	Cowlitz Divide	Semi	In-Out/Through	5.00	37.50	4.69	23.44	0.80	18.75	30.00	5.00
TOTAL									60.43	75.52	15.88

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XBAC	PRISTINE	BACKCOUNTRY	BACKBONE RIDGE	Ohanapecosh	5.00	4288.85	0.13	42.85	342.84	12.51	37.53	
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5.00	67.52	0.13	42.85	342.84	2.00	6.00	
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5.00	5758.77	0.13	42.85	342.84	16.80	50.39	
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5.00	19.26	0.13	42.85	342.84	2.00	6.00	
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5.00	0.43	0.13	42.85	342.84	2.00	6.00	
XLAS	PRISTINE	BACKCOUNTRY	LAUGHINGWATER SOUTH	Ohanapecosh	5.00	2933.39	0.13	42.85	342.84	8.56	25.67	
XLOC	PRISTINE	BACKCOUNTRY	LOWER COWLITZ	Ohanapecosh	5.00	1072.95	0.13	42.85	342.84	3.13	9.39	
XLOO	PRISTINE	BACKCOUNTRY	LOWER OHANAPECOSH	Ohanapecosh	5.00	5082.71	0.13	42.85	342.84	14.83	44.48	
XLOO	PRISTINE	BACKCOUNTRY	LOWER OHANAPECOSH	Ohanapecosh	5.00	618.00	0.13	42.85	342.84	2.00	6.00	
XOHA	PRISTINE	BACKCOUNTRY	OHANAPECOSH PARK	Ohanapecosh	2.00	1033.46	0.13	210.89	1687.14	2.00	6.00	9.00
XOHW	PRISTINE	BACKCOUNTRY	OHANAPECOSH WEST	Ohanapecosh	5.00	448.66	0.13	42.85	342.84	2.00	6.00	
TOTAL									67.82	203.46	9.00	39.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCTL	SEMI-PRIMITIVE	CAMP	THREE LAKES CAMP	Laughing Water	BCTL	7.6950	7.71	54.00	2.00	62.00
BCOC	SEMI-PRIMITIVE	CAMP	OLLALIE CREEK CAMP	Ollalie Creek	BCOC	7.7290	7.75	142.00	2.00	152.00
TOTAL									4.00	

Front Country Facilities

	Units	Type	Factor	PAOT	Persons/Day
Visitor Center	2000.00	SF	28.75 SF/Person	70	557
Campground	206.00	Sites	3.00 Persons/Site	618	618
Picnic	8.00	Tables	3.00 Persons/Table	24	60
Ranger Station		SWAG		3	9
Total				715	798

TOTAL CAPACITY - PAOT 982
TOTAL CAPACITY - Persons per Day 982

OBSERVED 1993 (Aug) PARKING OCCUPANCY 87% 27 vehicles = about 81 PAOT Not including campers or picnickers
Parking Needed for PAOT 364 214 spaces for camping and picnicking **Parking supply = 31** spaces (at Visitor Center)

Owyhigh Lakes (Map #11)
Day Use of Wilderness Trails

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Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Owyhigh Lakes	Owyhigh Lakes - Lakes	Semi	In-Out/Through	4.00	30.00	4.41	17.65	0.85	15.00	30.00	10.00
Owyhigh Lakes	Owyhigh Lakes - 123	Semi	Through	3.00	22.50	7.50	22.50	0.26	5.74	15.30	3.00
									20.74	30.00	10.00
TOTAL									41.48	75.30	23.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide Usable Acres	Adjusted Usable Acres	Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
ATAM	PRISTINE	BACKCOUNTRY	TAMANOS CREEK	Owyhigh	1.00	647.18	0.13	285.66	2285.31	2.00	6.00		
TOTAL										2.00	6.00	0.00	

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
TOTAL									0.00	

TOTAL CAPACITY - PAOT

47

TOTAL CAPACITY - Persons per Day

75

OBSERVED 1993 (Aug) PARKING OCCUPANCY

Not Checked

Parking Needed for PAOT

18 90 percent occupancy standard Parking supply unknown

Hourly Demand Factor source: 1993 study

17.37%

Hourly Demand at max. capacity

13

Narada Falls (Map #7) - Total Visitation Capacity

MORACAPY2-10.XLS

TOTAL

110 6,848 114
110

Front Country Trails

	Capacity - PAOT	Capacity - Persons per Day	Estimated Daily Use	notes:
Narada Falls .6 hour average stay	163	2,167	1198.00	1995.00
		0		
TOTAL	163	2,167	1,198	

TOTAL CAPACITY - PAOT 163
TOTAL CAPACITY - Persons Per Day 2,167

OBSERVED 1993 (Aug) PARKING OCCUPANCY Not Checked
Parking Needed at PAOT 60 90 percent occupancy standard Parking supply unknown

Hourly Factor 16.44% traffic counts entering Paradise in 1993
Hourly Demand 356

Paradise (Map #7, #8) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Paradise	Lakes	Semi	Loop	5.00	37.50	7.50	37.50	0.40	15.00	24.00	20.00
4th Crossing	Lakes	Semi	Loop	5.00	37.50	7.50	37.50	0.10	3.75	6.00	2.50
Paradise	Paradise Glacier	Semi	In-Out	3.00	22.50	3.75	11.25	0.80	9.00	24.00	16.00
4th Crossing	Paradise Glacier	Semi	In-Out	3.00	22.50	3.75	11.25	0.20	2.25	6.00	4.00
Narada Falls	Wonderland - Reflection to Longmire	Semi	In-Out/Through	3.00	22.50	5.00	15.00	0.60	9.00	24.00	24.00
Paradise	High Lakes	Semi	In-Out/Through	0.50	3.75	5.77	2.88	0.50	1.44	23.08	2.50
4th Crossing	High Lakes	Semi	In-Out/Through	0.50	3.75	5.77	2.88	0.25	0.72	11.54	2.50
TOTAL WILDERNESS DAY USE										41.16	71.50

Wilderness Management Units - Day and Overnight Use

				Primary	Adjusted	Encounters/Hr	Area Needed /	Number of Parties	Number of	Overnight Carrying	Existing Use		
Unit	Zone Class	TYPE	Unit Name	Trailhead	Hide	Usable Acres	Allowed Within	Area Covered /	Party at Standard	Allowed (at one	People Allowed	Capacity (people	(camper nights per
							Standard	Hr (Acres)	(Acres)	time)	(at one time)	per night)	yr)
ADIS	HIGH USE CLIMBING	GLACIER	DISAPPOINTMENT CLEAVER	Paradise	1.00	65.18	18.75	394.76	21.05	3.10	9.29	2.00	12.00
AING	HIGH USE CLIMBING	GLACIER	INGRAHAM FLATS	Paradise	1.00	360.58	18.75	394.76	21.05	17.13	51.38	36.00	1195.00
AMUI	HIGH USE CLIMBING	GLACIER	MUIR SNOWFIELD	Paradise	1.00	255.27	18.75	394.76	21.05	12.12	36.37	24.00	737.00
APBL	HIGH USE CLIMBING	BACKCOUNTRY	PEBBLE CREEK	Paradise	1.00	114.14	18.75	394.76	21.05	5.42	16.26		
AKFF	MOD. USE CLIMBING	BACKCOUNTRY	KAUTZ/FUHER ROUTE	Paradise	1.00	78.71	18.75	394.76	21.05	3.74	11.22		
ACOW	PRIMITIVE	BACKCOUNTRY	COWLITZ ALPINE	Paradise	1.00	1246.26	0.25	285.66	1142.65	2.00	6.00		
ACOG	PRISTINE	GLACIER	COWLITZ GLACIER	Paradise	1.00	1419.57	0.13	285.66	2285.31	2.00	6.00		
AMUE	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR EAST	Paradise	1.00	88.16	0.13	285.66	2285.31	2.00	6.00		
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	Paradise	1.00	125.76	0.13	285.66	2285.31	2.00	6.00		
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	Paradise	1.00	53.46	0.13	285.66	2285.31	2.00	6.00		
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1.00	526.24	0.13	285.66	2285.31	2.00	6.00	10.00	320.00
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1.00	23.24	0.13	285.66	2285.31	2.00	6.00		
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1.00	155.69	0.13	285.66	2285.31	2.00	6.00		
XTOR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	Paradise	5.00	16.85	0.13	42.85	342.84	2.00	6.00		
ACTH			THUMB ROCK	Paradise							0.00	6.00	199.00
AINT			INTERGLACIER	Paradise							0.00	6.00	148.00
ACCH			CAMP HAZARD	Paradise							0.00	30.00	1120.00
ASUM	HIGH USE CLIMBING	GLACIER	SUMMIT	Paradise/Wmt Riv	1.00	727.89	18.75	394.76	21.05	34.57	103.72	6.00	249.00
TOTAL										94	282.24	120	3920

Trailside Camps

Trails Camps										
Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCCM			Camp Muir	Paradise					110	6,848
TOTAL									110	

Front Country Trails

	Capacity - PAOT	Capacity - Persons per Day (2.5 Turnover Per Day)	Estimated Daily Use	notes:
Alta Vista	223	559	506.00	1995 "PAOT Reduced for all "upper loop" trails and the Skyline trail to reflect "semiwilderness" character
Avalanche Lily	98	244	865.00	1995
Deadhorse Creek	292	731	232.00	1995
Fourth Crossing	37	92	75.00	Park
Glacier Vista	20	51	150.00	Park
Golden Gate	102	254	150.00	Park
Guide House	5	1,248	600.00	BRW est
High Skyline	81	203	298.00	Park
Lower Lakes	134	335	25.00	Park
Moraine	20	51	25.00	Park
Nisqually Vista	219	548	365.00	1995
Pebble Creek	73	183	222.00	1995
Skyline	731	1,828	1430.00	1995
Waterfall	65	163	100.00	Park
TOTAL	2,101	5,240	5,043	Daily Capacity Does not include Guidehouse Trail, assumed to be a feeder to all other trails

Note: Visitors may use multiple trails

Paradise (Map #7, #8) - Total Visitation Capacity (Continued)

Buildings/Facilities

	Units	Type	Factor	PAOT	Persons/Day
Jackson Visitor Center		Park Estimated		350	1,474 1.9 hours
Picnic Area	82.00	Tables	3.00 persons/table	246	615 2.5 turns per table
Paradise Inn	129.00	Rooms	3.00 persons/room	387	387 Note: most rooms vacant at max. area occupancy
Paradise Inn - Lounge	432.00	SF	28.75 SF/Person	15	38 2.5 turns per table
Gift Shop/Snack Bar	2200.00	SF	28.75 SF/Person	77	1224 0 minute avg. stay
Paradise Inn Lobby	5968.00	SF	68.00 SF/Person	86	1384 0 minute avg. stay
Guide House Sales	1943.00	SF	38.00 SF/Person	51	818 0 minute avg. stay
Guide House Restrooms	738.00	SF	46.00 SF/Person	16	513
Ranger Station	72.00	SF	17.00 SF/Person	4	68
Total				884	2,620 Note: Each visitor will use multiple areas

Summary

	PAOT	Persons Per Day Notes:
Widerness Trails - Day Users	41	Part of Front Country Trails
Cross Country Zones - Day Users	282	Part of Front Country Trails
Cross Country Zones - Overnight	120	Part of Front Country Trails Not Included in area PAOT
Trailside Camps - Overnight	110	Part of Front Country Trails
Front Country Trails	2,101	5,240 Assumes turnover of 2.5 times per 1993 Study
Facilities/Buildings	884	2,620 Assumes 33 percent of all visitors don't use trails
TOTAL	3,419	7,859 Day use in cross country zones excluded
	Total	Day Use Overnight
TOTAL CAPACITY - PAOT	3,419	3,189 230
TOTAL CAPACITY - Persons Per Day	7,859	7,629 230

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY	9,780 based on traffic counts, some may not stop in area
Parking Needed at PAOT	168% 1,270 vehicles, less 40 employees = 3,690 PAOT assuming 3.0 per vehicle
	1,266 Parking supply = 756

spaces not including "down the road" parking

Hourly Factor	18.44% traffic counts entering Paradise in 1993
Hourly Demand	1,292

Reflection Lakes (Map #8) - Total Visitation Capacity

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Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Attach 5)	1995 Weekend w/ Good Weather
Reflection Lake	Pinnacle Peak	Semi	In-Out	4.00	30.00	3.75	15.00	1.00	15.00	30.00	50.00	103.00
Reflection Lake	Lakes	Semi	Loop	5.00	37.50	7.50	37.50	0.60	22.50	36.00	2.50	143.00
Reflection Lake	Wonderland - Box Can to Reflection	Semi	In-Out	4.00	30.00	3.75	15.00	0.60	9.00	18.00	4.50	
Reflection Lake	Wonderland - Reflection to Longmire	Semi	In-Out/Through	3.00	22.50	5.00	15.00	0.10	1.50	4.00	4.00	
Reflection Lake	High Lakes	Semi	In-Out/Through	0.50	3.75	5.77	2.88	0.25	0.72	11.54	2.50	
TOTAL									49	100	64	246

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Adjusted Hide Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	278.14	0.13	145.50	1164.00	2.00	6.00	
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	216.18	0.13	145.50	1164.00	2.00	6.00	
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	58.15	0.13	145.50	1164.00	2.00	6.00	
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	147.36	0.13	145.50	1164.00	2.00	6.00	
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	17.36	0.13	145.50	1164.00	2.00	6.00	
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	0.83	0.13	145.50	1164.00	2.00	6.00	
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	4.68	0.13	145.50	1164.00	2.00	6.00	
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	Reflection	3	504.27	0.25	145.50	582.00	2.00	6.00	5.00
XSTE	PRISTINE	BACKCOUNTRY	STEVENS RIDGE	Reflection	3	2116.23	0.13	145.50	1164.00	2.00	6.00	13.00
TOTAL									18	54.00	14	88

Trailside Camps

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	OLDZONE	Adjusted Useable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per year)
BCPR	SEMIPRIMITIVE	CAMP	Paradise River Camp	Reflection		8	7.73	243.00	441
TOTAL								14.00	14.00

Front Country Trails

	Capacity - PAOT	Capacity - Persons/Day	Estimated Use
Pinnacle Peak non-wilderness portion	49	296	50.00

TOTAL CAPACITY - PAOT

166

TOTAL CAPACITY - Persons Per Day

423

**OBSERVED 1993 (Aug) PARKING OCCUPANCY
PARKING NEEDED AT PAOT**

39% 31 vehicles = about 93 PAOT assuming 3.0 people/vehicle
61 90 percent occupancy standard Parking supply = 79.0 spaces

Hourly Factor

10.27%

Hourly Demand

43

Shriner Peak (Map #10, 15)

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Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Shriner Peak	Shriner Peak	Semi	One-way	6.00	45.00	3.75	22.50	1.00	22.50	30.00	10.00
TOTAL									22.50	30.00	10.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XSHR	PRISTINE	BACKCOUNTRY	SHRINER PEAK	Shriner Peak	5.00	4175.54	0.13	42.85	342.84	12.18	36.54		
XSHR	PRISTINE	BACKCOUNTRY	SHRINER PEAK	Shriner Peak	5.00	50.50	0.13	42.85	342.84	2.00	6.00		
TOTAL										14.18	42.54	0.00	

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCSR	SEMI-PRIMITIVE	CAMP	SHRINER PEAK CAMP	Shriner Peak	BCSR	7.7370	7.75	73.00	2.00	87.00
TOTAL									2.00	

TOTAL CAPACITY - PAOT

67

TOTAL CAPACITY - Persons per Day

67

OBSERVED 1993 (Aug) PARKING OCCUPANCY

Not Checked

Parking Needed for PAOT

25 Parking supply unknown

Snow Lake/Bench Lake (Map #8) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use Att. 6	1996 Observed Max. Users Per Day
Snow Lake	Snow Lake	Transition	One-way	3.00	37.50	6.25	18.75	1.00	19	50	55	69
TOTAL									18.75	50.00	55.00	

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/	Area Covered /	Area Needed /	Number of	Number of	Overnight	Existing Use
							Hr Allowed Under Standard		Hr (Acres)			Party at Standard (Acres)	
XTAT	PRIMITIVE	BACKCOUN	TATOOSH RANGE	Snow Lake	3.00	667.69	0.25	145.50	582.00	2	6.00	5	75
TOTAL										2	6	5	75

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCSL	TRANSITION	CAMP	SNOW LAKE CAMP	Snow Lake	BCSL	7.7320	7.75	298.00	6	332
TOTAL									6.00	

TOTAL CAPACITY - PAOT

31

TOTAL CAPACITY - Persons per Day

61

OBSERVED 1993 (Aug) PARKING OCCUPANCY

55% 11 vehicles = about 33 PAOT assuming 3.0 people per vehicle

Parking Needed At PAOT

11 90 percent occupancy standard, plus viewing Parking supply = 20 spaces

Hourly Factor

10.27%

Hourly Demand

6 plus viewing

Sunrise (Map #6, #11) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Attach. 5)
Sunrise	Wonderland - to Mystic Lake	Semi	In-Out/Through	5.00	37.50	3.85	19.23	0.85	16.35	26.15	16.00
Sunrise	Boroughs Mountain - Loop (wilderness portion)	Transition	Through/In-Out	1.30	16.25	9.62	12.50	1.00	12.50	76.92	80.00
Sunrise	Boroughs Mountain - 2nd Mtn	Semi	In-Out	1.00	7.50	3.75	3.75	1.00	3.75	30.00	32.00
Sunrise	Boroughs Mountain - 3rd Mtn	Semi	In-Out	1.00	7.50	3.75	3.75	1.00	3.75	30.00	8.00
Subtotal	Boroughs Mountain						20.00		20.00		
Sunrise	Mt. Fremont	Transition	In-Out	3.00	37.50	6.25	18.75	1.00	18.75	50.00	60.00
Sunrise	Lake Eleanor	Semi	In-Out	4.00	30.00	3.75	15.00	0.40	6.00	12.00	6.00
Sunrise	Huckleberry Creek	Semi	In-Out	3.00	22.50	3.75	11.25	1.00	11.25	30.00	5.00
Sunrise	Silver Forest (FRONT COUNTRY)	Semi	In-Out	2.00	15.00	3.75	2.00	1.00	2.00	30.00	40.00
Sunrise	Wonderland-Sunrise to W.R.(Falls)	Semi	Through/In-Out	0.75	5.63	6.25	4.69	0.80	3.75	40.00	15.00
Sunrise	Wonderland-Falls to W.R.	Semi	Through	1.25	9.38	7.50	9.38	0.64	6.00	38.40	15.00
Sunrise	Northern Loop - Day	Semi	In-Out	4.00	30.00	3.75	15.00	0.65	9.75	19.50	5.25
Sunrise	Northern Loop - Overnight	Semi	Loop	24.00	180.00	7.50	180.00	0.35	63.00	21.00	5.25
Sunrise	Glacier Basin	Transition	In-Out	3.00	37.50	6.25	18.75	0.10	1.88	5.00	2.00
Sunrise	Sunrise Rim	Transition	In-Out/Through	1.00	12.50	8.33	8.33	1.00	8.33	66.67	50.00
Sunrise	Sourdough Ridge	Semi	In-Out/Through	2.00	25.00	8.33	16.67	1.00	16.67	66.67	100.00
TOTAL							339.04	11.79	203.72	542.31	369.50

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide Usable Acres	Adjusted Under Standard	Encounters/ Hr Allowed	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Capacity (people per night)	Carrying Capacity (camper nights per yr)	Existing Use
AWIN	PRISTINE	GLACIER	WINTHROP GLACIER	Sunrise	1.00	1907.96	0.13	285.66	2285.31	2.00	6.00			
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	Sunrise	1.00	24.12	0.13	285.66	2285.31	2.00	6.00			
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	Sunrise	1.00	215.98	0.13	285.66	2285.31	2.00	6.00			
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	Sunrise	1.00	32.25	0.13	285.66	2285.31	2.00	6.00			
XBMT	PRIMITIVE	BACKCOUNTRY	BURROUGHS MOUNTAIN	Sunrise	2.00	878.52	0.25	210.89	843.57	2.00	6.00			
XBUR	PRISTINE	BACKCOUNTRY	BURNT PARK	Sunrise	4.00	146.44	0.13	89.49	715.90	2.00	6.00	6.00	4.00	
XELE	PRISTINE	BACKCOUNTRY	LAKE ELEANOR	Sunrise	1.00	2240.80	0.13	285.66	2285.31	2.00	6.00			
XELE	PRIMITIVE	BACKCOUNTRY	LAKE ELEANOR	Sunrise	5.00	611.34	0.25	42.85	171.42	3.57	10.70			
XFRE	PRIMITIVE	BACKCOUNTRY	MOUNT FREMONT	Sunrise	3.00	484.33	0.25	145.50	582.00	2.00	6.00			
XLOS	PRISTINE	BACKCOUNTRY	LOST CREEK	Sunrise	5.00	2393.52	0.13	42.85	342.84	6.98	20.94			
XMYS	PRISTINE	BACKCOUNTRY	MYSTIC LAKE	Sunrise	3.00	474.44	0.13	145.50	1164.00	2.00	6.00			
XNEE	PRISTINE	BACKCOUNTRY	MCNEELEY PEAK	Sunrise	3.00	270.96	0.13	145.50	1164.00	2.00	6.00			
XRM	PRIMITIVE	BACKCOUNTRY	SUNRISE RIM	Sunrise	3.00	36.53	0.25	145.50	582.00	2.00	6.00			
XRM	PRIMITIVE	BACKCOUNTRY	SUNRISE RIM	Sunrise	3.00	7.19	0.25	145.50	582.00	2.00	6.00			
XSKY	PRISTINE	BACKCOUNTRY	SKYSCRAPER MOUNTAIN	Sunrise	2.00	168.07	0.13	210.89	1687.14	2.00	6.00	6.00	21.00	
XSKY	PRISTINE	BACKCOUNTRY	SKYSCRAPER MOUNTAIN	Sunrise	2.00	282.84	0.13	210.89	1687.14	2.00	6.00			
XSLK	PRIMITIVE	BACKCOUNTRY	SHADOW LAKE	Sunrise	1.00	17.05	0.25	285.66	1142.65	2.00	6.00			
XSLK	PRIMITIVE	BACKCOUNTRY	SHADOW LAKE	Sunrise	1.00	166.55	0.25	285.66	1142.65	2.00	6.00			
XSRD	PRIMITIVE	BACKCOUNTRY	SOURDOUGH RIDGE	Sunrise	1.00	121.29	0.25	285.66	1142.65	2.00	6.00			
XSRM	PRIMITIVE	BACKCOUNTRY	SUNRISE MEADOW	Sunrise	1.00	9.91	0.25	285.66	1142.65	2.00	6.00			
XSRM	PRIMITIVE	BACKCOUNTRY	SUNRISE MEADOW	Sunrise	1.00	198.01	0.25	285.66	1142.65	2.00	6.00			
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE ROAD	Sunrise	5.00	1052.75	0.13	42.85	342.84	3.07	9.21			
XUGC	PRISTINE	BACKCOUNTRY	UPPER GRANITE CREEK	Sunrise	5.00	275.14	0.13	42.85	342.84	2.00	6.00	6.00	36.00	
XUWF	PRISTINE	BACKCOUNTRY	UPPER WEST FORK	Sunrise	5.00	134.55	0.13	42.85	342.84	2.00	6.00			
XWFW	PRISTINE	BACKCOUNTRY	WEST FORK WHITE RIVER	Sunrise	5.00	285.97	0.13	42.85	342.84	2.00	6.00			
TOTAL										57.62	172.86	18.00	61.90	

Sunrise (Map #6, #11) - Total Visitation Capacity (Continued)

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCSW	TRANSITION	CAMP	SUNRISE CAMP (Frontcount)	Sunrise	BCSW	7.7430	7.76	49.00	64.00	919.00
BCBP	SEMI-PRIMITIVE	CAMP	BERKELEY PARK CAMP	Sunrise	BCBP	7.73	0.00	341.00	9.00	400.00
BCFC	SEMI-PRIMITIVE	CAMP	FIRE CREEK CAMP	Sunrise	BCFC	7.68	0.00	73.00	9.00	109.00
BCGC	SEMI-PRIMITIVE	CAMP	GRANITE CREEK CAMP	Sunrise	BCGC	7.73	0.00	142.00	11.00	281.00
BCLE	SEMI-PRIMITIVE	CAMP	LAKE ELENOR CAMP	Sunrise	BCLE	7.73	0.00	298.00	11.00	124.00
TOTAL									104.00	1833.00

Front Country Trails

	Capacity - Persons At One Time	Capacity - Persons Per Day (2.5 hour stay)	Estimated Daily Use
Burroughs Loop	122		80.00
Sourdough Ridge	487		100.00
Portion of Wonderland Trail	142		90.00
Total	751.00	1978.50	270.00

Facilities/Buildings

	Units	Type	Factor	PAOT	Persons/Day
Ranger Station	1600.00	SF	172.50 SF/Person	9	
Terrace	5568.00	SF	69.00 SF/Person	81	
Dining	4448.00	SF	28.75 SF/Person	155	
Concession Lobby	512.00	SF	34.50 SF/Person	15	
Concession Sales	720.00	SF	37.90 SF/Person	19	
Comfort Station	912.00	SF	46.00 SF/Person	20	
Museum	2322.00	SF	28.75 SF/Person	81	
Service Station	3.00	Cars	3.00 Persons/Car	9	
Picnic Area	37.00	Tables	3.00 Persons/Party	111	
Miscellaneous Areas				188	
Total			(includes factor Net to Gross SF)	687	2,187

Summary

	PAOT	Daily Use	Notes:
Wilderness Trails	204	542	Based on typical times on trail per MORR staff.
Cross-Country Zones - Day Users	58	173	
Cross Country Zones - Overnight	0	18	Not included in PAOT
Trailside Camps - Overnight	104	104	
Front Country Trails	751	1,041	Assumes average stay + 2.5 hours per 1993 study
Facilities/Buildings/Miscellaneous	687	1,472	Assume 40 percent don't use other facilities/trails
Total	1,803	3,056	

TOTAL CAPACITY - PAOT

TOTAL CAPACITY - Persons Per Day

TOTAL CURRENT USE

OBSERVED 1993 (Aug) PARKING OCCUPANCY

PARKING NEEDED FOR PAOT

3,955	From 1995 visitor distribution survey on trails, plus 20 percent for non-trail users)
232%	604 vehicles = about
1,812	PAOT Assuming 3.0 people per vehicle
668	90 percent max. occupancy standard
Parking supply =	260 spaces

Hourly Demand Factor

Hourly Demand

source: 1993 study
at max. capacity

17.37%
531

Sunrise Pt. (Map #11, 14) - Total Visitation Capacity

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Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Attach. 5)
Sunrise Pt.	Hidden Lake	Semi	In-Out	2.00	15.00	3.75	7.50	1.00	7.50	30.00	10.00
Sunrise Pt.	Palisades Lake- to Sunrise Lk	Semi	In-Out	2.00	15.00	3.75	7.50	1.00	7.50	30.00	20.00
Sunrise Pt.	Palisades Lake- to Clover Lk	Semi	In-Out	1.50	11.25	3.75	5.63	0.70	3.94	21.00	14.00
Sunrise Pt.	Palisades Lake-Trail End	Semi	In-Out	1.50	11.25	3.75	5.63	0.50	2.81	15.00	10.00
TOTAL									21.75	96.00	54.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
XPAL	PRISTINE	BACKCOUNTRY	LOWER PALISADES	Sunrise Pt	3.00	411.93	0.13	145.50	1164.00	2.00	6.00	6.00	6.00
XSU	PRISTINE	BACKCOUNTRY	SLIDE MOUNTAIN	Sunrise Pt	3.00	1290.32	0.13	145.50	1164.00	2.00	6.00	3.00	7.00
XWH	PRISTINE	BACKCOUNTRY	WHITE RIVER PARK	White River	3.00	1215.77	0.13	145.50	1164.00	2.00	6.00	9.00	7.00
XSRN	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE NOI	Sunrise Pt	5.00	3060.43	0.13	42.85	342.84	8.93	26.78		
XSRS	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE SOL	Sunrise Pt	5.00	3398.57	0.13	42.85	342.84	9.91	29.74		
XHUC	PRISTINE	BACKCOUNTRY	HUCKLEBERRY PAR	Sunrise Pt	3.00	997.32	0.13	145.50	1164.00	2.00	6.00	6.00	2.00
XGRE	PRISTINE	BACKCOUNTRY	GREEN PARK	Sunrise Pt	2.00	833.25	0.13	210.89	1687.14	2.00	6.00	6.00	79.00
XSRN	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE NOI	Sunrise Pt	5.00	3060.43	0.13	42.85	342.84	8.93	26.78	0.00	0.00
TOTAL										37.77	113.30	30.00	101.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCDL	SEMI-PRIMITIVE	CAMP	DICK LAKE CAMP	Sunrise Pt	BCDL	7.6270	7.64	49.00	3.00	51.00
BCUP	SEMI-PRIMITIVE	CAMP	UPPER PALISADES (Sunrise Pt	BCUP	7.7170	7.73	125.00	6.00	170.00
TOTAL									9.00	221.00

TOTAL CAPACITY - PAOT

144 Not including visitors at viewpoint

TOTAL CAPACITY - Persons per Day

144 Not including visitors at viewpoint

OBSERVED 1993 (Aug) PARKING OCCUPANCY

27% 18 vehicles = about

54

PAOT Assuming 3.0 people per vehicle

Parking Needed for Trail PAOT

53 90 % maximum occupancy

Parking supply =

67

spaces

Note: Average duration of stay = 0.89 hours, with 68 % less than 30 minutes

Estimated viewing demand =

37 PAOT

Trail demand =

144 PAOT

Viewing + Trails PAOT

181

Parking Needed for PAOT w/viewing

67

Hourly Demand Factor source: 1993 study

17.37%

Hourly Demand at max. capacity

98

Tipsoo Lake (Map #15)
Day Use of Wilderness Trails

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Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Tipsoo	Naches Loop	Transition	Loop	2.00	25.00	12.50	25.00	0.67	16.75	67.00	20.10
TOTAL									16.75	67.00	20.10

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (camper nights per people per night)	Existing Use (camper nights per yr)
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	146.06	0.13	42.85	342.84	2.00	6.00		
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	12.56	0.13	42.85	342.84	2.00	6.00		
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	29.01	0.13	42.85	342.84	2.00	6.00		
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	1998.35	0.13	42.85	342.84	5.83	17.49		
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	1.98	0.13	42.85	342.84	2.00	6.00		
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	19.78	0.13	42.85	342.84	2.00	6.00		
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5.00	19.04	0.13	42.85	342.84	2.00	6.00		
XGOS	PRISTINE	BACKCOUNTRY	GHOST LAKE	Tipsoo	5.00	513.61	0.13	42.85	342.84	2.00	6.00		
XLCR	PRISTINE	BACKCOUNTRY	LOWER CRYSTAL MOUNTAIN	Tipsoo	5.00	856.35	0.13	42.85	342.84	2.50	7.49		
XLCR	PRISTINE	BACKCOUNTRY	LOWER CRYSTAL MOUNTAIN	Tipsoo	5.00	652.45	0.13	42.85	342.84	2.00	6.00		
TOTAL										24.33	72.98	0.00	0.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLOZONE	ACRES	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCLC	SEMI-PRIMITIVE	CAMP	LOWER CRYSTAL CAMP	Crystal Creek	BCLC	7.7280	7.74	121.00	2.00	148.00
BCUC	SEMI-PRIMITIVE	CAMP	UPPER CRYSTAL CAMP	Crystal Creek	BCUC	7.7380	7.75	165.00	2.00	205.00
TOTAL									4.00	

TOTAL CAPACITY - PAOT **94**
TOTAL CAPACITY - Persons/Day **94**

OBSERVED 1993 (Aug) PARKING OCCUPANCY **40%** 18 vehicles = about **54.00** **PAOT**
Parking Needed for PAOT **35** Parking supply = **45** **spaces**

Twin Firs (Map # 1) - Total Visitation Capacity

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Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use
Twin Firs	Twin Firs	Semi	Loop	0.50	3.75	7.50	3.75	1.00	10.00	160.00	1.00
TOTAL									10.00	160.00	1.00

Zone Designation Seems Incorrect

TOTAL CAPACITY - PAOT	10	
TOTAL CAPACITY - Persons/Day	160	
TOTAL CURRENT USE	1	
OBSERVED 1993 (Aug) PARKING OCCUPANCY	Not checked	
PARKING NEEDED AT PAOT	4	90 percent occupancy standard Parking supply unknown

Hourly Factor	source: 1993 study	17.37%
Hourly Demand		28

West Side Road (Map # 1) - Total Visitation Capacity

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Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Attach 5)	1995 Est. Daily Use, Weekend, Good Weather
Dry Creek	Mirror Lakes	Semi	In-Out	1.50	11.25	3.75	5.63	0.33	1.86	9.90	3.33	
Dry Creek	Tahoma Creek	Semi	In-Out	2.00	15.00	3.75	7.50	0.33	2.48	9.90	1.00	
Dry Creek	Wonderland - IH to Rampart	Semi	In-Out/Through	6.00	45.00	5.00	30.00	0.15	4.50	6.00	7.50	
Dry Creek	Wonderland - Rampart to Longmire	Semi	In-Out/Through	2.00	15.00	5.00	10.00	0.15	1.50	6.00	7.50	
Gobbler's Knob	Gobblers Knob	Semi	In-Out	5.00	37.50	3.75	18.75	0.90	16.88	30.00	10.00	
Goat Lake	Goat Lake - USFS	Semi	In-Out	1.00	7.50	3.75	3.75	1.00	3.75	30.00	1.00	
Round Pass	Round Pass	Semi	In-Out	0.50	3.75	3.75	1.88	1.00	1.88	30.00	2.00	
South Puyallup	South Puyallup	Semi	In-Out/Through	2.00	15.00	3.85	7.69	1.00	7.69	30.77	3.00	
St. Andrews	St. Andrews	Semi	In-Out/Through	5.00	37.50	3.85	19.23	1.00	19.23	30.77	2.00	
St. Andrews	Danman Falls	Semi	Loop	0.50	3.75	7.50	3.75	1.00	3.75	60.00	1.00	
Klapatche Point	North Puyallup	Semi	One-way	4.00	30.00	3.80	15.19	1.00	15.19	30.38	1.00	
Klapatche Point	Wonderland - IH to Emerald	Semi	Through	3.00	22.50	7.50	22.50	0.25	5.63	15.00	5.00	
Klapatche Pt.	Wonderland - Emerald to Klapatche	Semi	Through	5.00	37.50	7.50	37.50	0.25	9.38	15.00	2.50	
Klapatche Pt.	Wonderland - Klapatche to Golden Lk	Semi	Through	4.00	30.00	7.50	30.00	0.50	15.00	30.00	5.00	
Klapatche Pt.	Wonderland - Golden Lk to Mowich	Semi	Through	4.00	30.00	7.50	30.00	0.50	15.00	30.00	5.00	
TOTAL									123.69	363.72	56.83	50.00

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/ Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
ASTK	PRIMITIVE	BACKCOUNTRY	S TAHOMA/KAUTZ GLACIER	Westside	1.00	5.92	0.25	285.66	1142.65	1.00	3.00		
ATOK	PRIMITIVE	BACKCOUNTRY	TOKALOO ALPINE	Westside	1.00	1254.95	0.25	285.66	1142.65	2.00	6.00	9.00	405.00
ACOL	PRISTINE	BACKCOUNTRY	COLONADES ALPINE	Westside	1.00	626.85	0.13	285.66	2285.31	2.00	6.00	6.00	47.00
APTG	PRISTINE	GLACIER	PUYALLUP/TAHOMA GLACIERS	Westside	1.00	3004.10	0.13	285.66	2285.31	2.00	6.00		
XEME	PRISTINE	BACKCOUNTRY	EMERALD RIDGE	Westside	5.00	842.70	0.13	42.85	342.84	2.46	7.37		
XEME	PRISTINE	BACKCOUNTRY	EMERALD RIDGE	Westside	5.00	26.36	0.13	42.85	342.84	2.00	6.00		
XXEN	PRISTINE	BACKCOUNTRY	KENWORTHY LAKES	Westside	5.00	894.06	0.13	42.85	342.84	2.61	7.82		
XKLA	PRISTINE	BACKCOUNTRY	KLAPATCHE RIDGE	Westside	5.00	424.38	0.13	42.85	342.84	2.00	6.00		
XSTA	PRISTINE	BACKCOUNTRY	ST ANDREWS	Westside	5.00	304.11	0.13	42.85	342.84	2.00	6.00		
XTA1	PRISTINE	BACKCOUNTRY	TAHOMA CREEK	Westside	5.00	3020.65	0.13	42.85	342.84	8.81	26.43		
XUPP	PRISTINE	BACKCOUNTRY	UPPER PUYALLUP	Westside	5.00	4.94	0.13	42.85	342.84	1.00	3.00		
XUWR	PRISTINE	BACKCOUNTRY	UPPER WESTSIDE ROAD	Westside	5.00	1485.39	0.13	42.85	342.84	4.33	13.00		
XWOW	PRISTINE	BACKCOUNTRY	MOUNT WOW	Westside	5.00	2061.63	0.13	42.85	342.84	6.01	18.04		
TOTAL										38.22	114.67	15.00	452.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	Adjusted Usable Acres	Annual Occupancy	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCKP	SEMI-PRIMITIVE	CAMP	KLAPATCHE PARK CAMP	Dry Creek	BCKP	7.7120	7.73	330.00	12.00
BCNP	SEMI-PRIMITIVE	CAMP	NORTH PUYALLUP CAMP	Dry Creek	BCNP	7.6830	7.70	262.00	14.00
BCSP	SEMI-PRIMITIVE	CAMP	S PUYALLUP CAMP	Dry Creek	BCSP	7.7260	7.74	398.00	17.00
BCLG	SEMI-PRIMITIVE	CAMP	LAKE GEORGE CAMP	Goat Lake	BCLG	7.6900	7.71	336.00	20.00
TOTAL								63.00	1493.00

New Picnic Areas

Picnic Sites - Multiple	Units	Item sites	Factor	PAOT	People/Day
	38.00		3.00 persons/site	114.00	228.00 Assume 2.0 turnover

Wilderness CAPACITY - PAOT	415
Wilderness TOTAL CAPACITY - Persons per Day	670
PAOT MISC FRONT COUNTRY - 10 % of all other	42
Persons per Day - MISC FRONT COUNTRY	67
TOTAL PAOT	457
TOTAL Capacity USERS/DAY	737

OBSERVED 1993 (Aug) PARKING OCCUPANCY	60% 24 vehicles = about	72.00 PAOT assuming 3 persons per vehicle
PARKING NEEDED FOR PAOT	169 90 percent occupancy standard	Parking supply = 40 spaces at Dry Creek

Hourly Demand Factor	source: 1993 study	18.15%
Hourly Demand		122
PAOT Day Use		352
Persons/Day Day Use		592
Overnight at Maximum Occupancy		63

White River (Map #11, #6) - Total Visitation Capacity

MORACAPY2-10.XLS

Day Use of Wilderness Trails

Trailhead	Trail	Zone	Type	Avg. Time on Trail (Hrs)	Allowed Encounters / Visit	Max. Arrival Rate / Hour	Max Visitors at One Time	% of Trail Users from This Trailhead	Max Visitors at One Time from Trailhead	Max Users per Day from Trailhead	Per Day Estimated Use (Att. 5)	1996 Observed Max. Use Per Day	1995 Weekend Day w/ Good Weather
White River C.G.	Glacier Basin - Emmons Cut-off	Transition	In-Out	2.00	25.00	6.25	12.50	0.90	11.25	45.00	60.00	139.00	
White River C.G.	Glacier Basin - to Basin	Transition	In-Out	2.00	25.00	6.25	12.50	0.70	8.75	35.00	42.00		57.00
White River C.G.	Glacier Basin - Climbers	Transition	In-Out	2.00	25.00	6.25	12.50	0.30	3.75	15.00	18.00		
White River C.G.	Wonderland-W.R. to Sunrise	Semi	Through	2.50	18.75	7.50	18.75	0.20	3.75	12.00	3.00		
White River C.G.	Emmons Moraine	Transition	In-Out	1.50	18.75	6.25	9.38	1.00	9.38	50.00	50.00		
TOTAL									36.88	107.00	113.00		

Wilderness Management Units - Day and Overnight Use

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Within Standard	Area Covered / Hr (Acres)	Area Needed / Party at Standard (Acres)	Number of Parties Allowed (at one time)	Number of People Allowed (at one time)	Overnight Carrying Capacity (people per night)	Existing Use (camper nights per yr)
AEMR	MOD. USE CLIMBING	GLACIER	EMMONS ROUTE	White River	1.00	346.51	9.38	394.76	42.11	8.23	24.69	48.00	788.00
AGLA	PRIMITIVE	BACKCOUNTRY	GLACIER BASIN	White River	1.00	357.02	0.25	285.66	1142.65	2.00	6.00		
XWIT	PRIMITIVE	BACKCOUNTRY	UPPER WHITE RIVER	White River	1.00	37.65	0.25	285.66	1142.65	2.00	6.00		
XWIT	PRIMITIVE	BACKCOUNTRY	UPPER WHITE RIVER	White River	1.00	587.05	0.25	285.66	1142.65	2.00	6.00		
AEMG	PRISTINE	GLACIER	EMMONS GLACIER	White River	1.00	2290.63	0.13	285.66	2285.31	2.00	6.00		
TOTAL										16.23	48.69	48.00	788.00

Trailside Camps

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Usable Acres	Annual Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCGB	TRANSITION	CAMP	GLACIER BASIN CAMP	White River	BCGB	7.7390	7.76	1021.00	1286.00
BCCS			CAMP SCHURMAN	White River				48.00	2181.00
TOTAL								68.00	3447.00

Front Country Facilities

	Units	Type	Factor	PAOT	Persons/Day
Campground	112.00	Sites	3.00 Persons/Site	336	336
Picnic	5.00	Tables	3.00 Persons/Table	15	38
Total				351	374

TOTAL CAPACITY - PAOT

TOTAL CAPACITY - Persons per Day

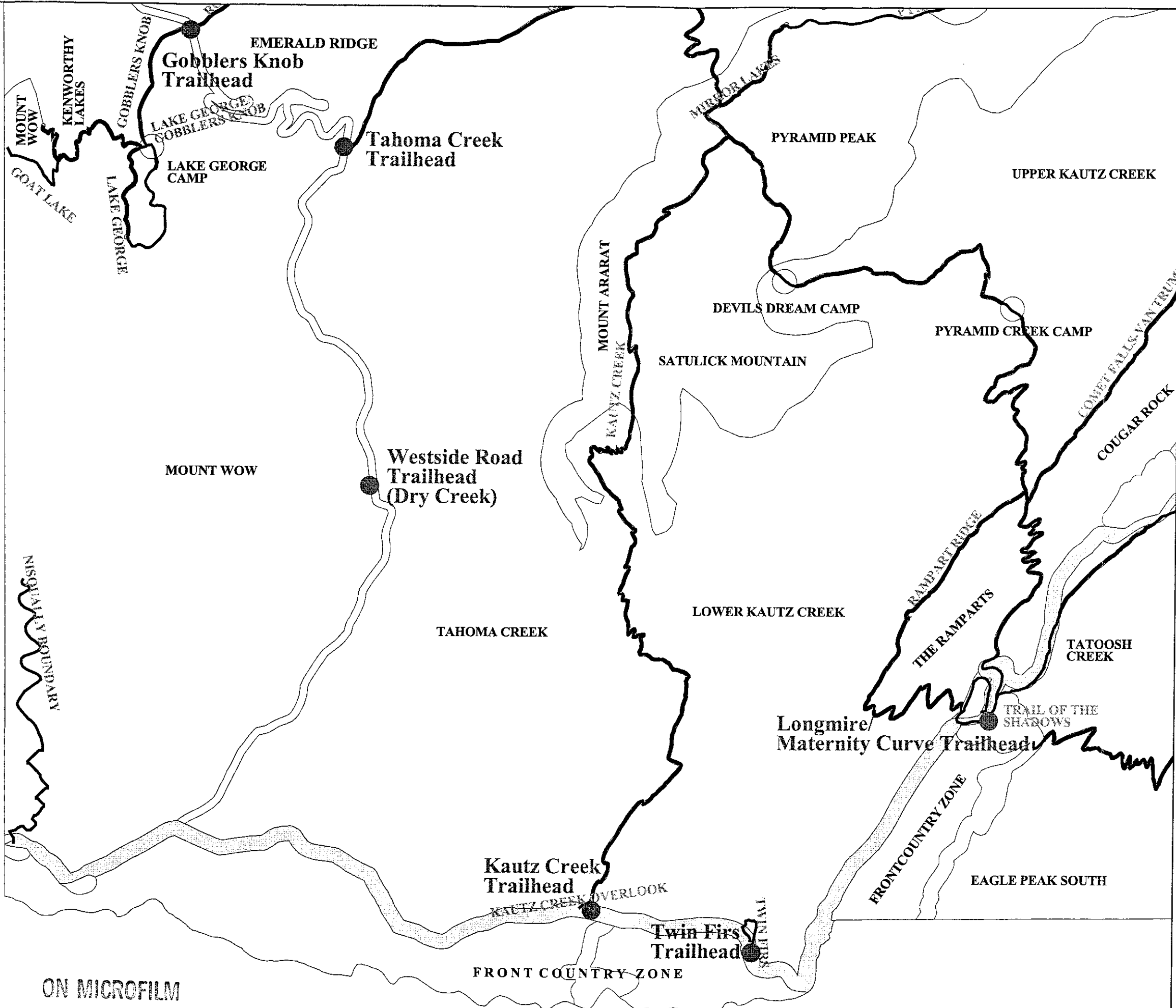
OBSERVED 1993 (Aug) PARKING OCCUPANCY Parking Needed for PAOT

100%	51 vehicles = about	153	PAOT 1 day use area		
154	90 percent maximum occupancy	Parking supply =	51	spaces	
112.00	spaces for CG				
17.37%					
Hourly Demand Factor	source: 1993 study	87 people/hr			
Hourly Demand	at max. capacity				

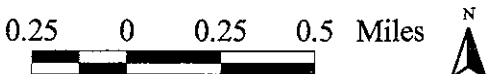
Mount Rainier National Park

Legend

- Trail
- Management Areas
- Road

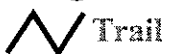
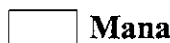



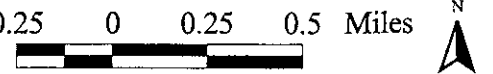
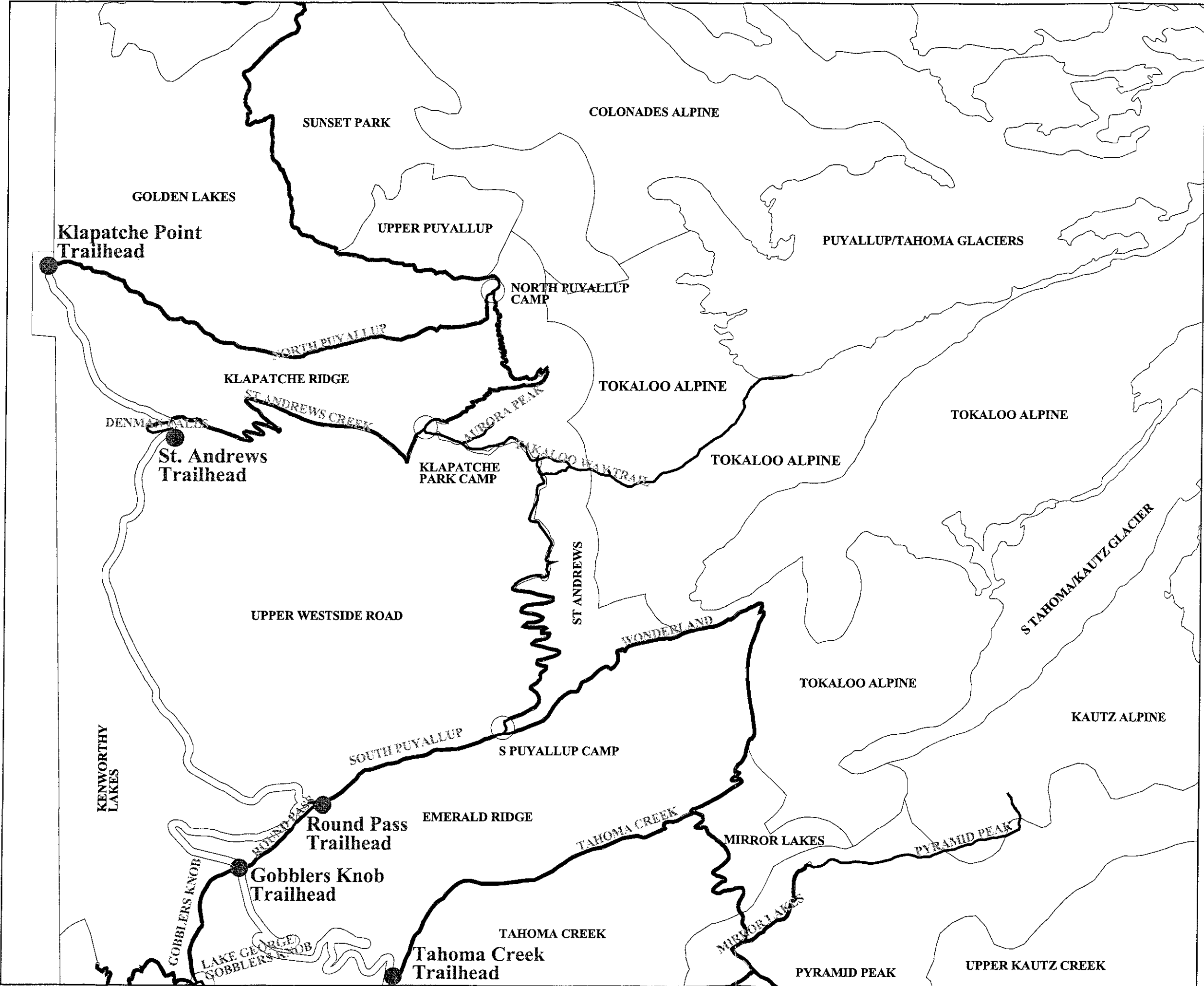
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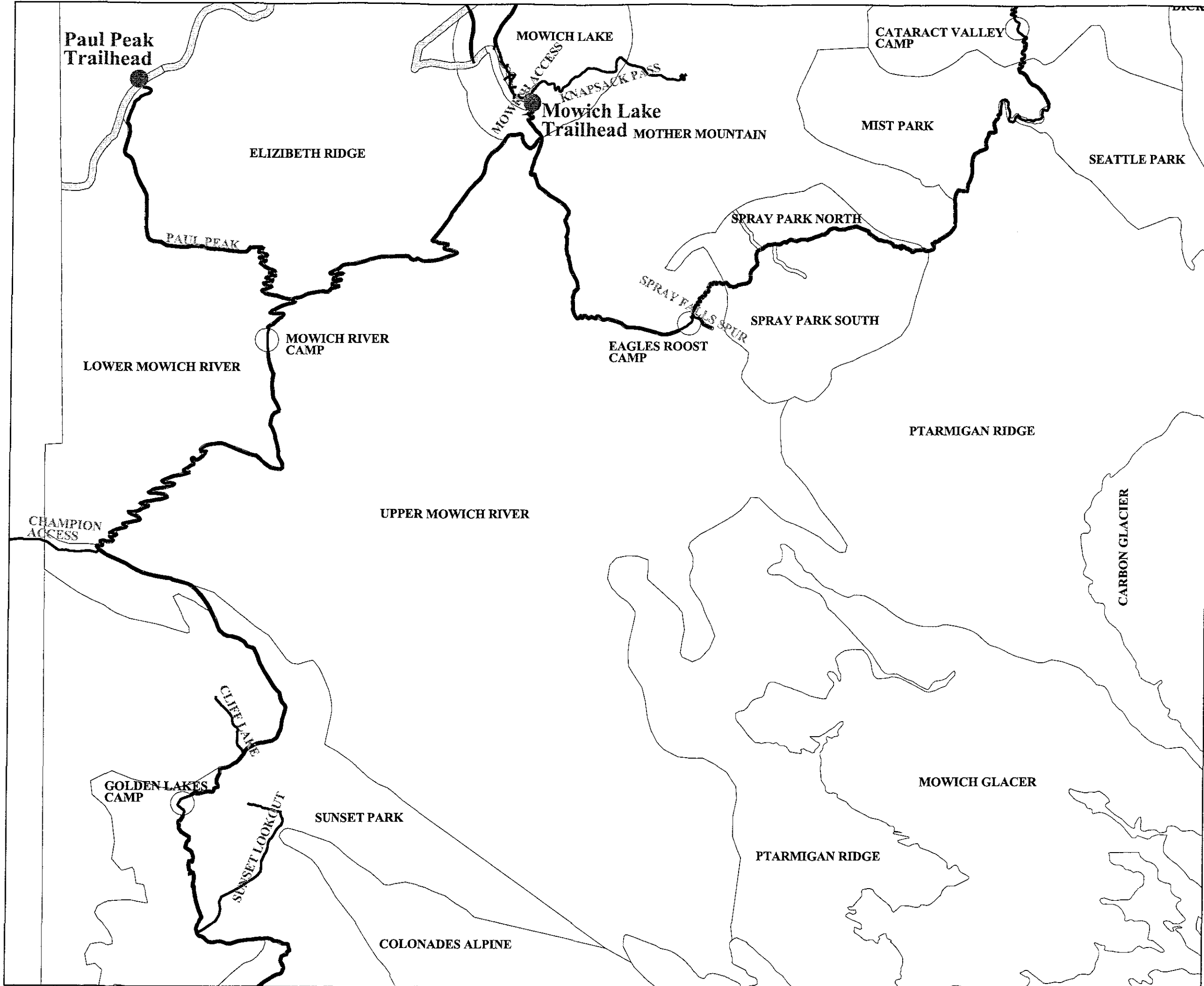


Mount Rainier National Park

Legend

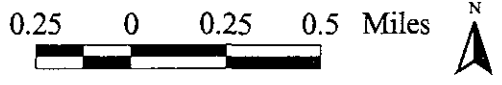
-  Trail
-  Management Areas
-  Road








Mount Rainier National Park

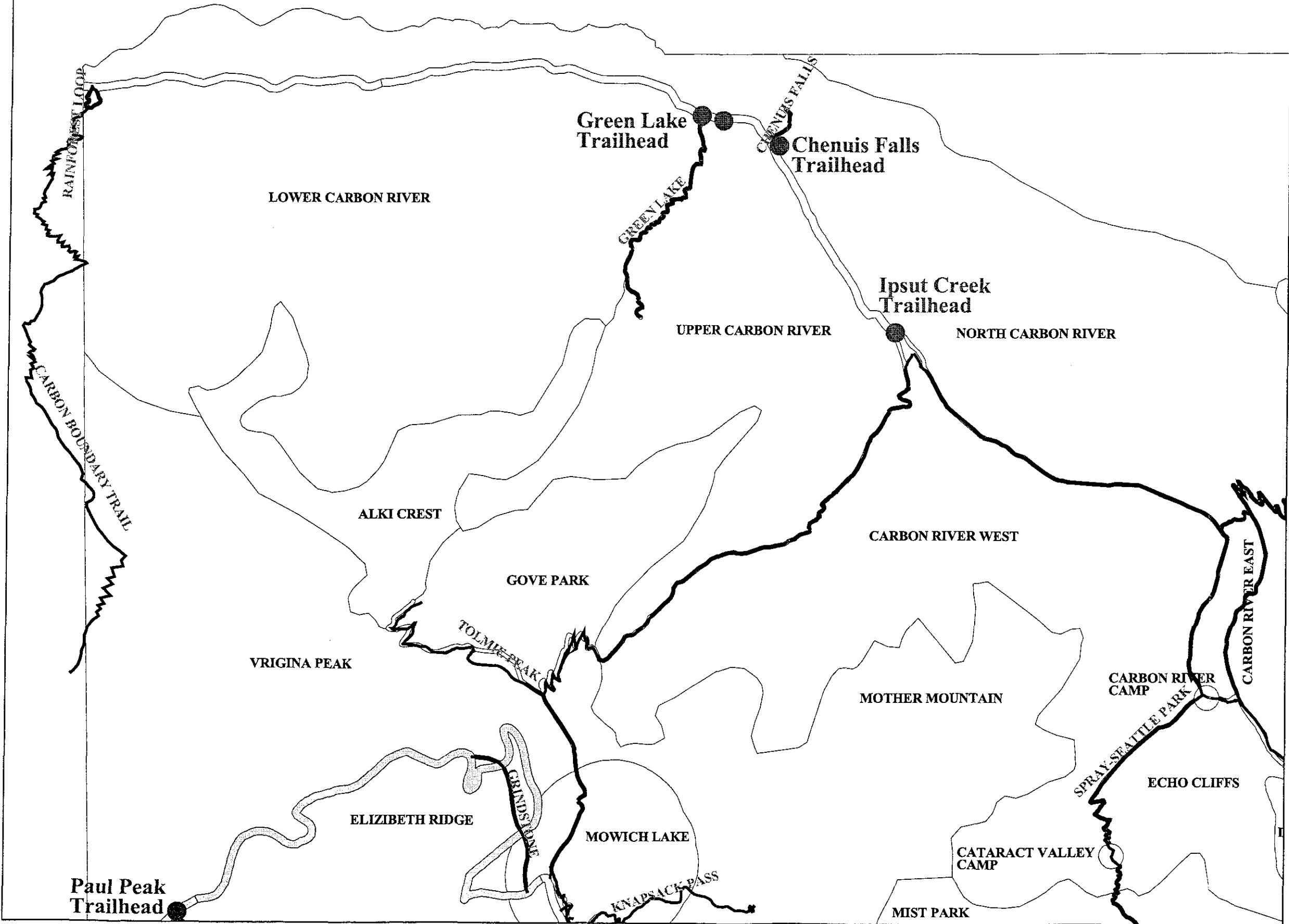
- Legend**
- Trail
 - Management Areas
 - Road



Mount Rainier National Park

Legend

-  Trail
-  Management Areas
-  Road






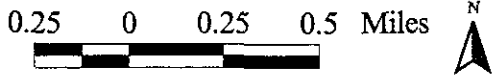
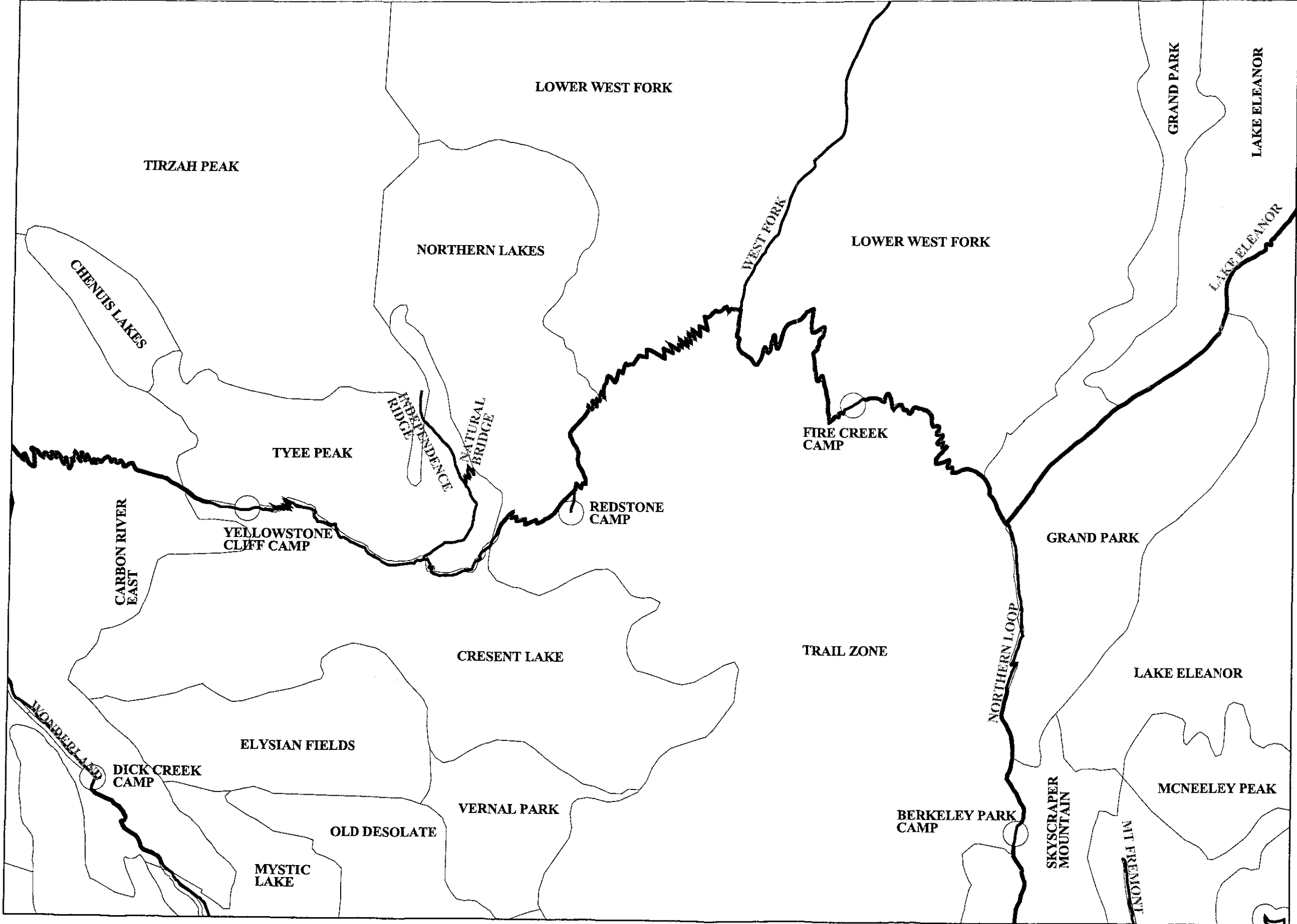
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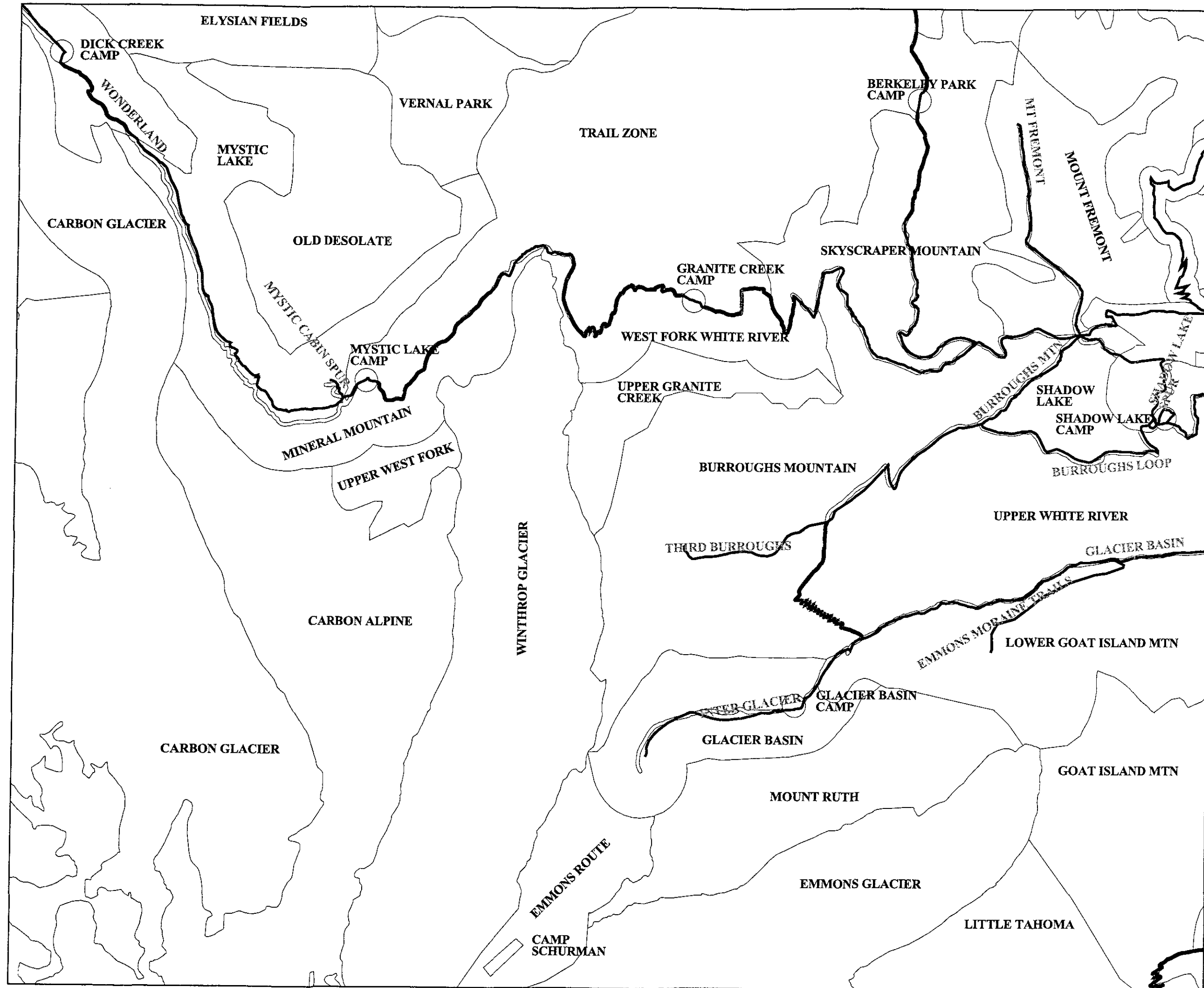


Mount Rainier National Park

Legend




-  Trail
-  Management Areas
-  Road

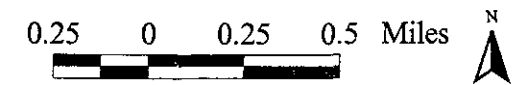


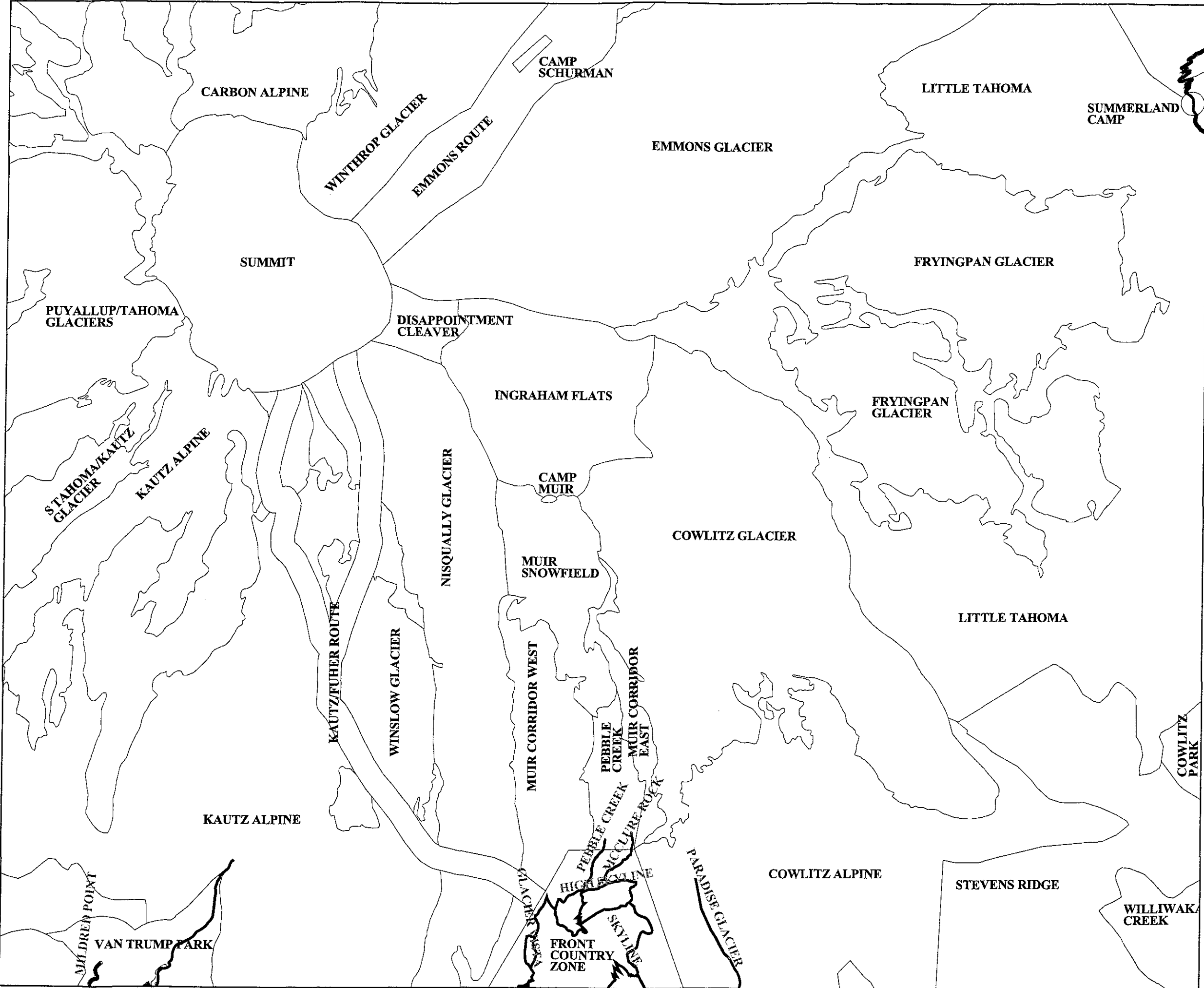


Mount Rainier National Park

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

-  Trail
-  Management Areas
-  Road

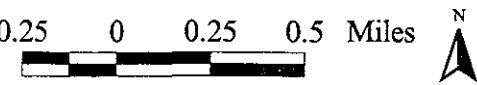




Mount Rainier National Park




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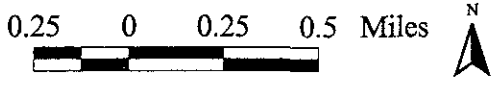
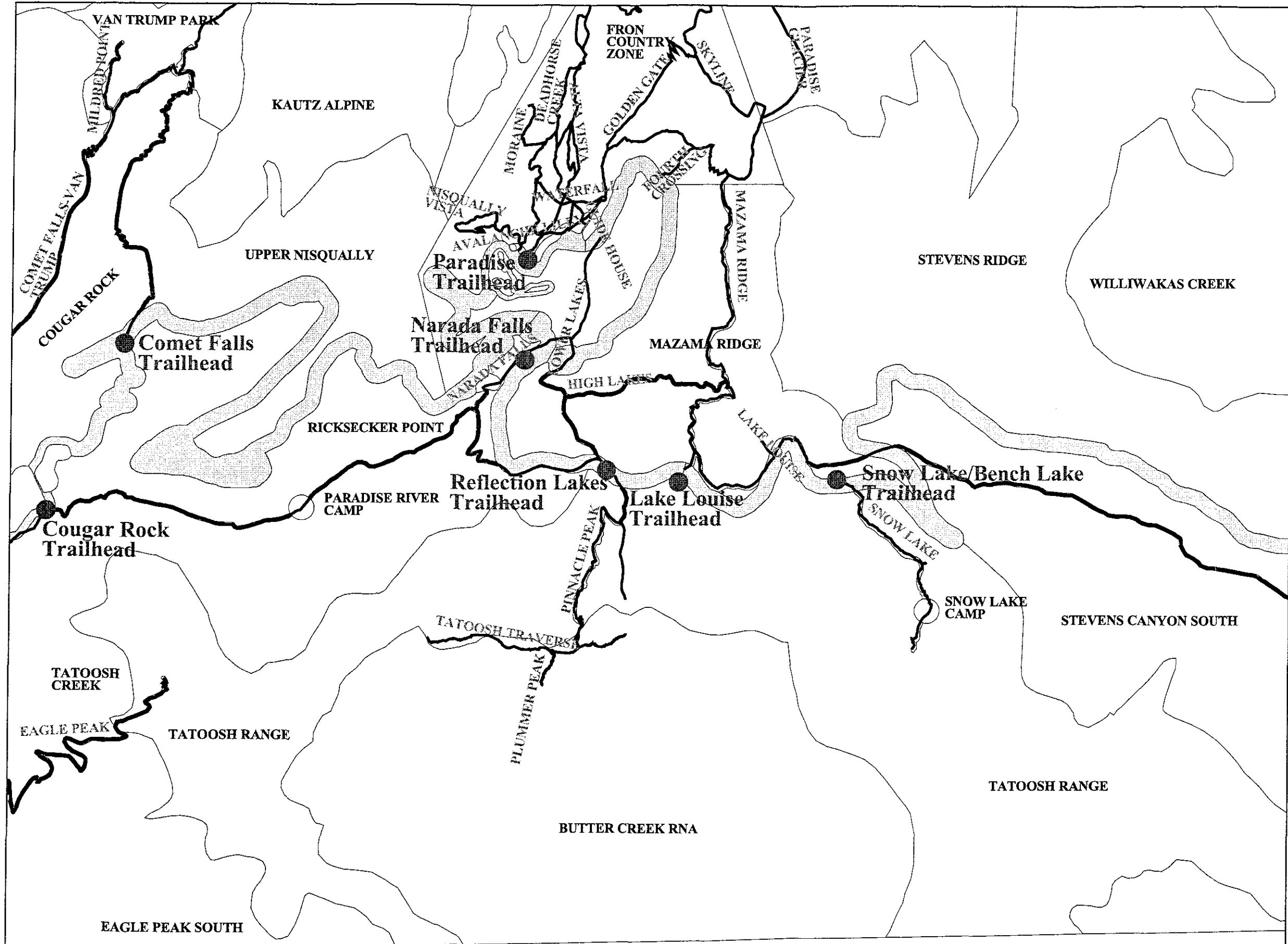
-  Trail
-  Management Areas
-  Road



Mount Rainier National Park




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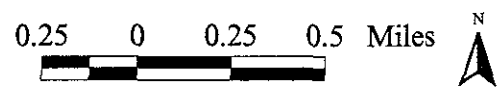
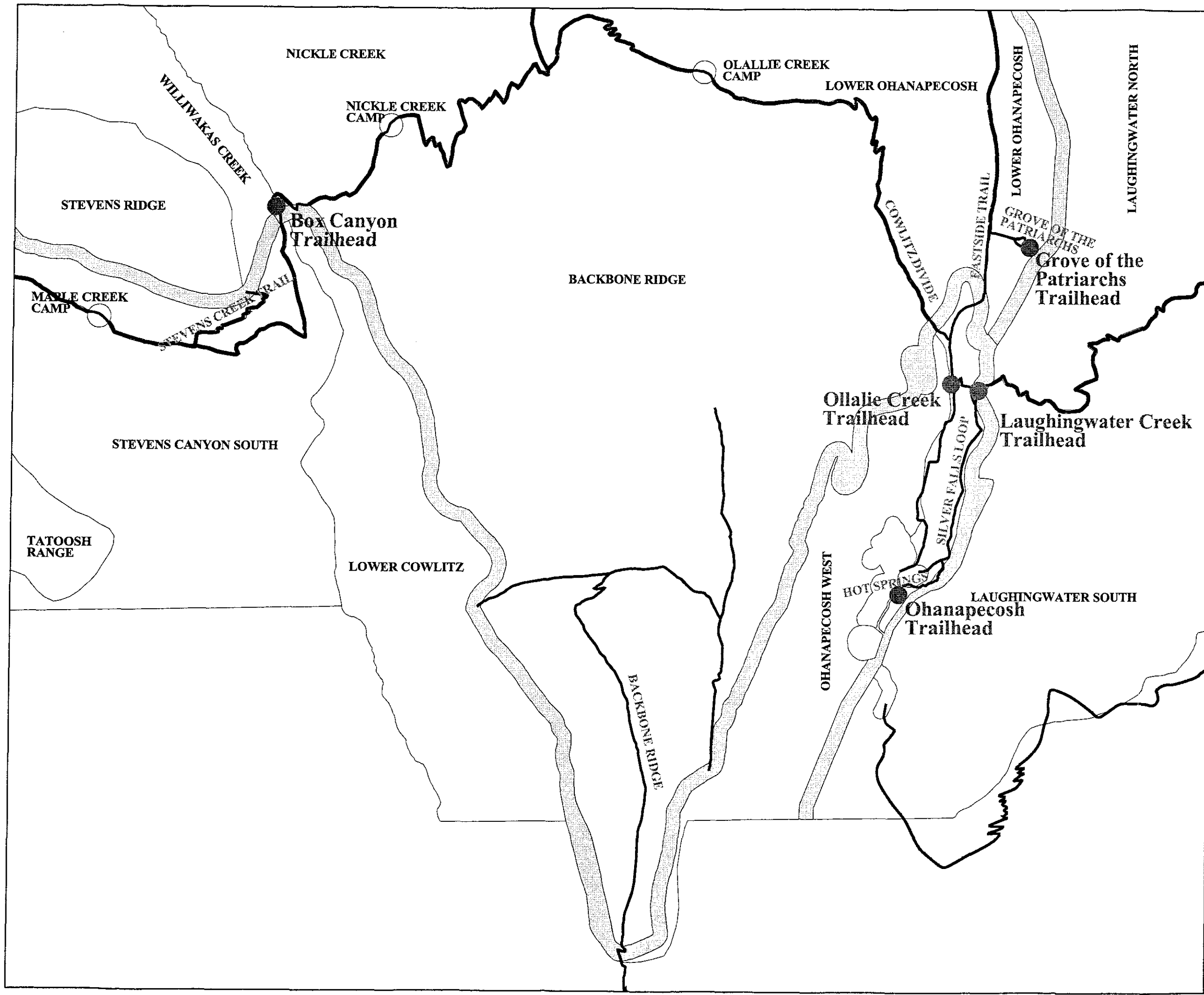
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-  Management Areas
-  Road



Mount Rainier National Park




Legend

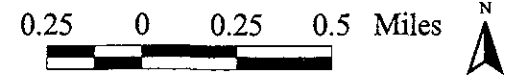
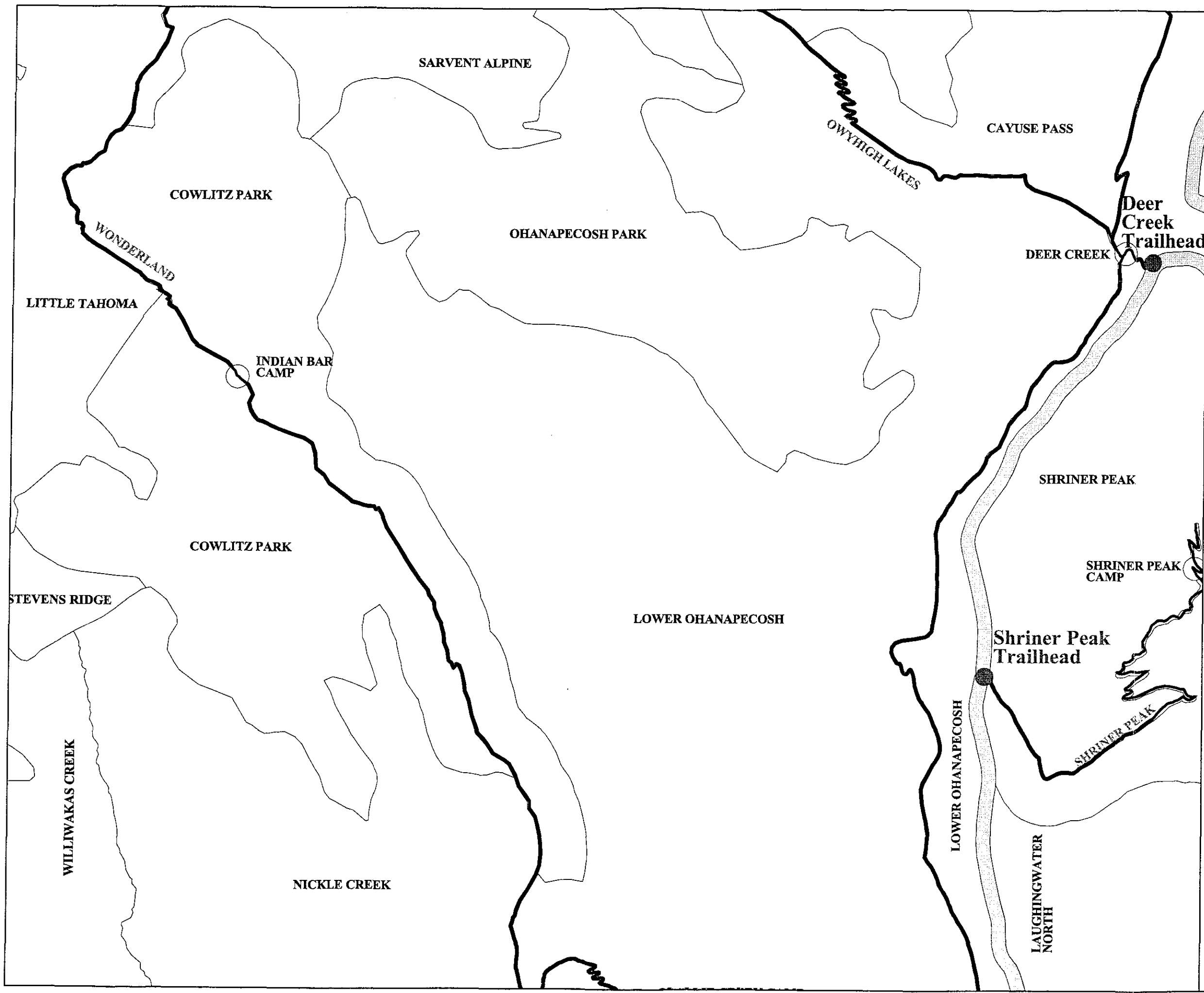
-  Trail
-  Management Areas
-  Road



Mount Rainier National Park

Legend

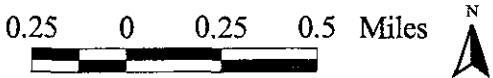
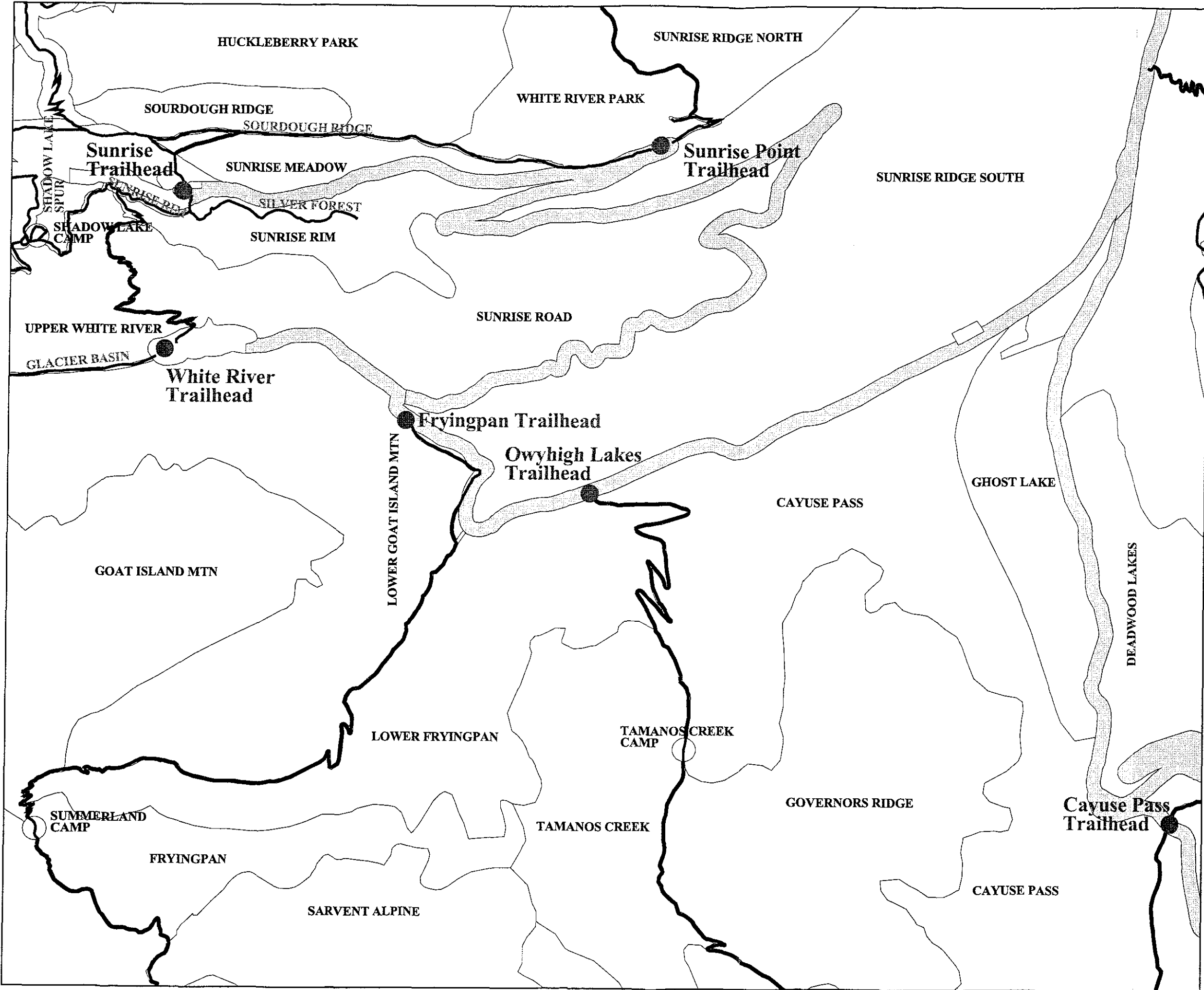
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-  Management Areas
-  Road



Mount Rainier National Park




Legend

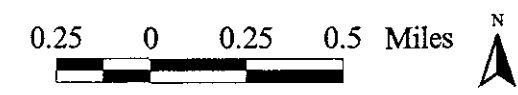
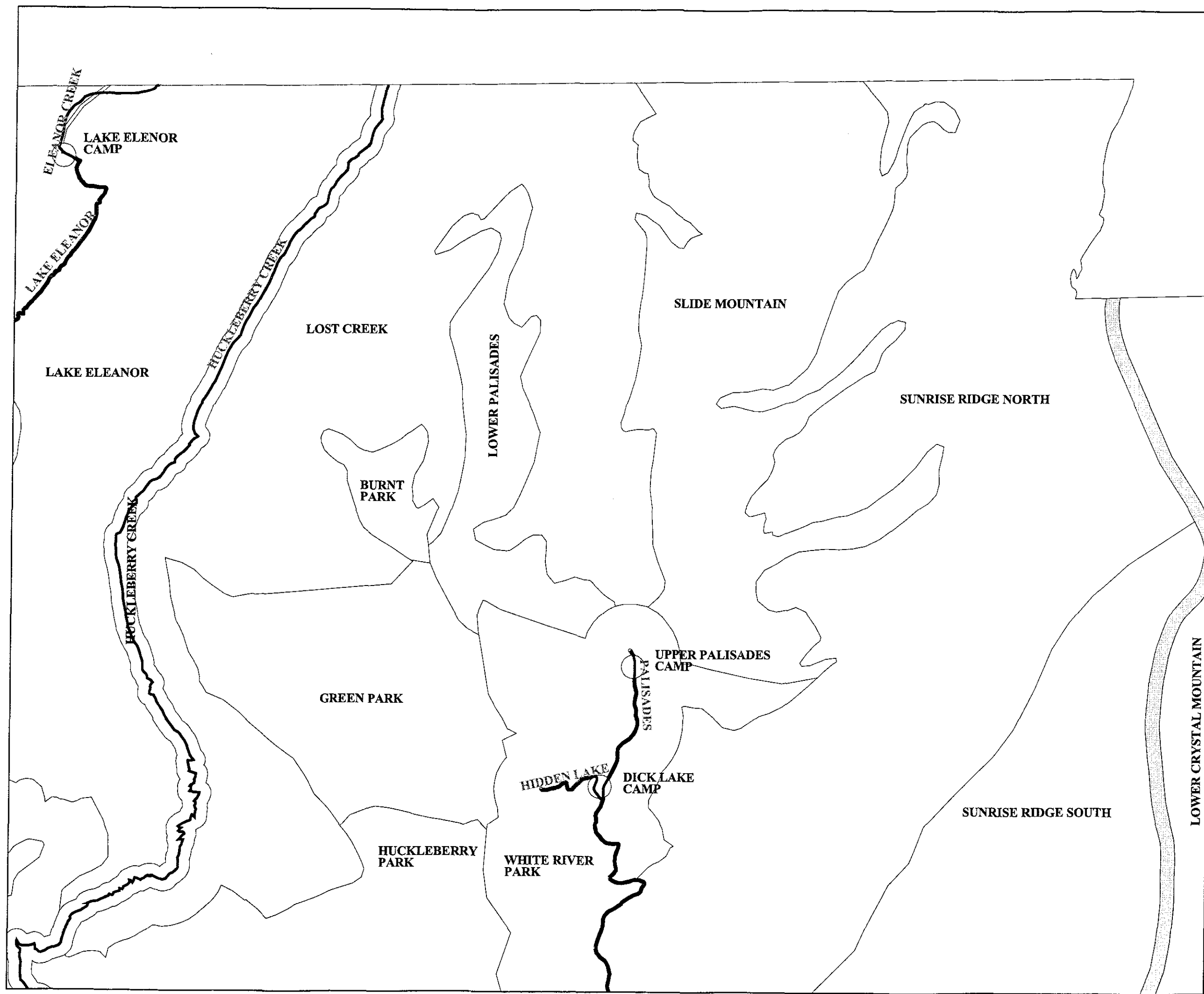
- Trail
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Mount Rainier National Park




Legend

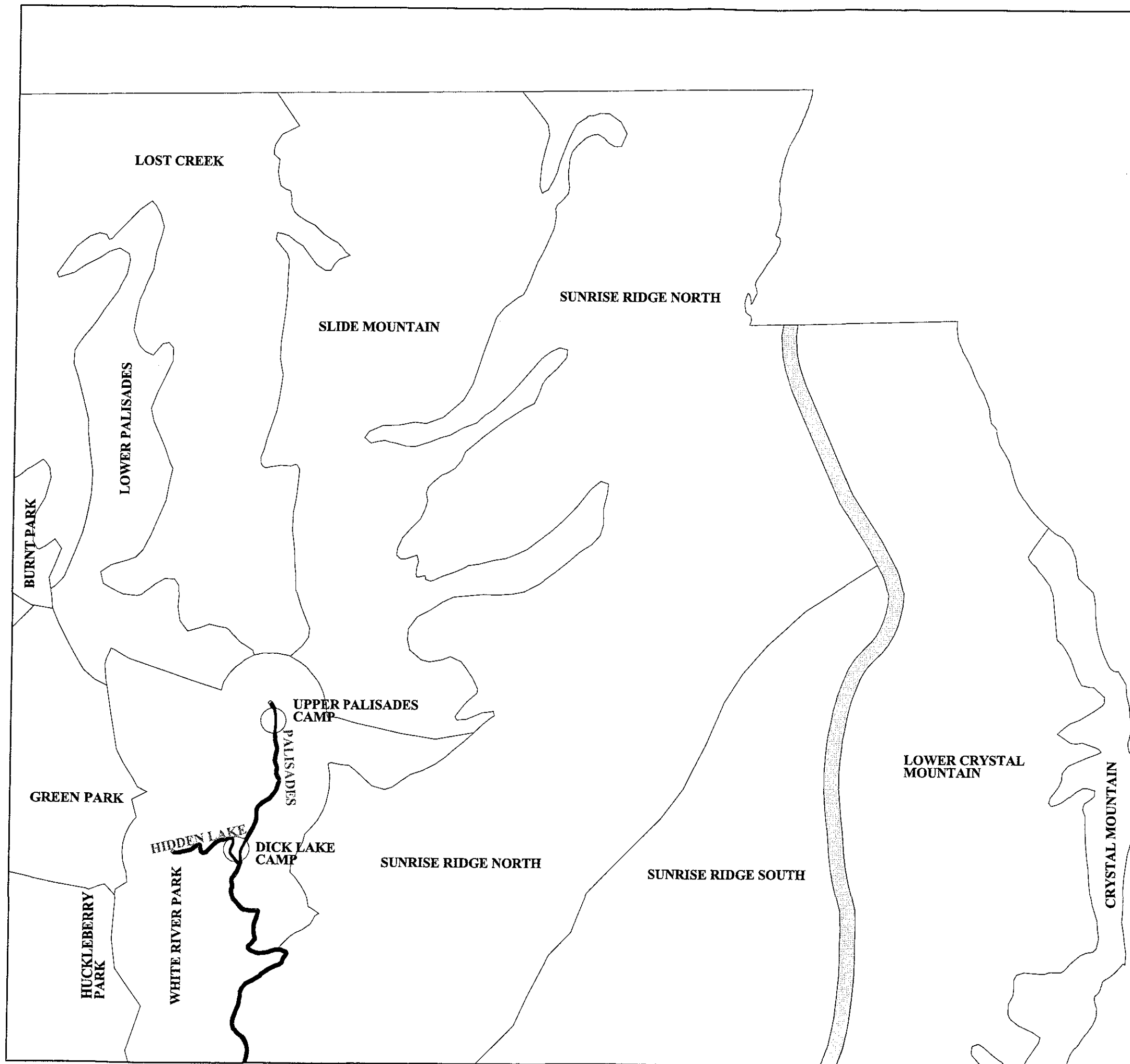
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-  Road



Mount Rainier National Park

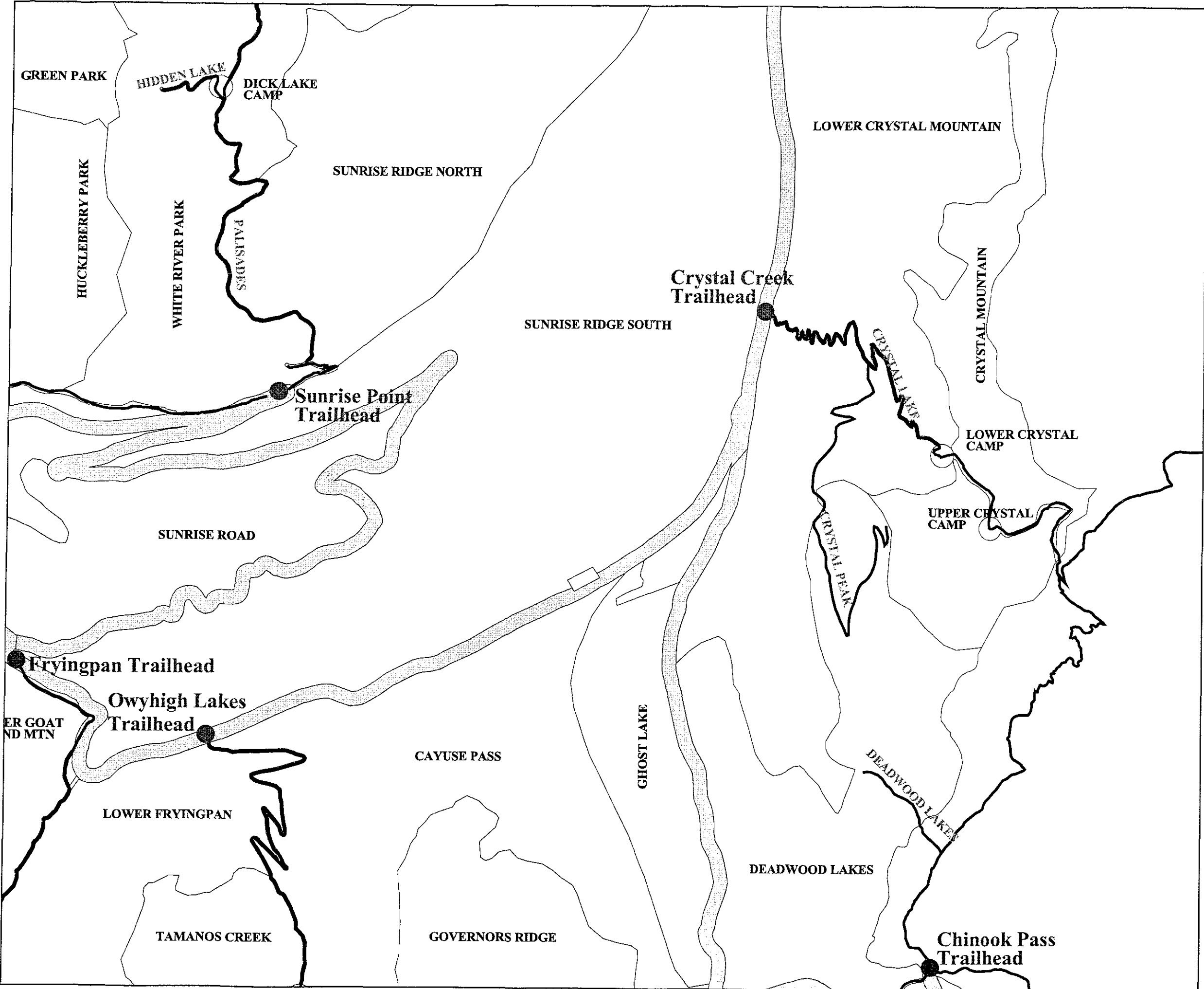
Legend

-  Trail
-  Management Areas
-  Road






0.25 0 0.25 0.5 Miles

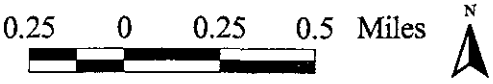




Mount Rainier National Park




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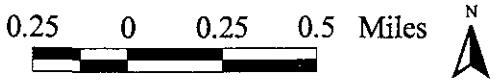
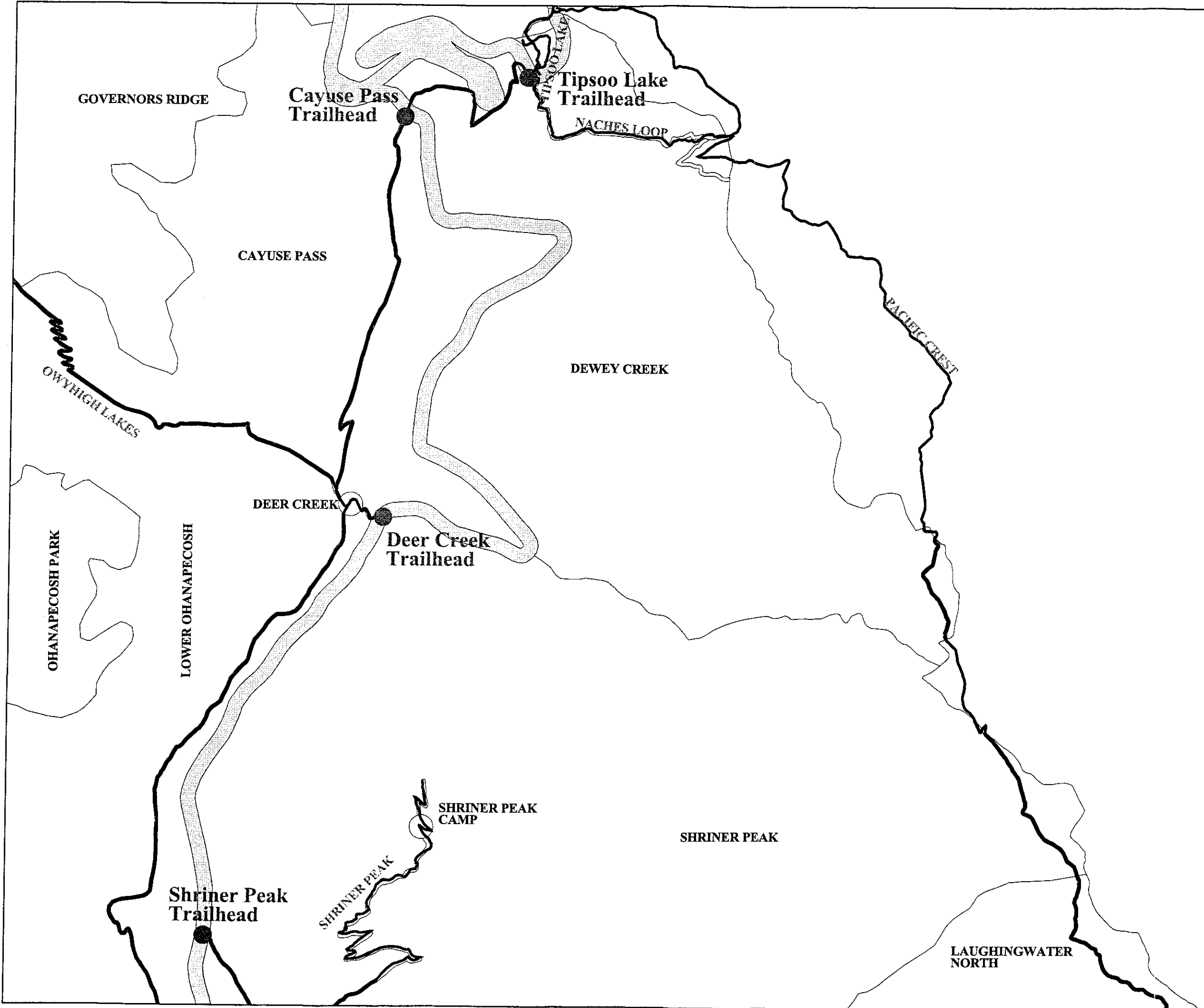
-  Trail
-  Management Areas
-  Road



Mount Rainier National Park




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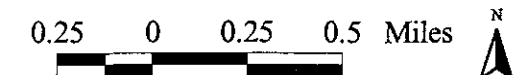
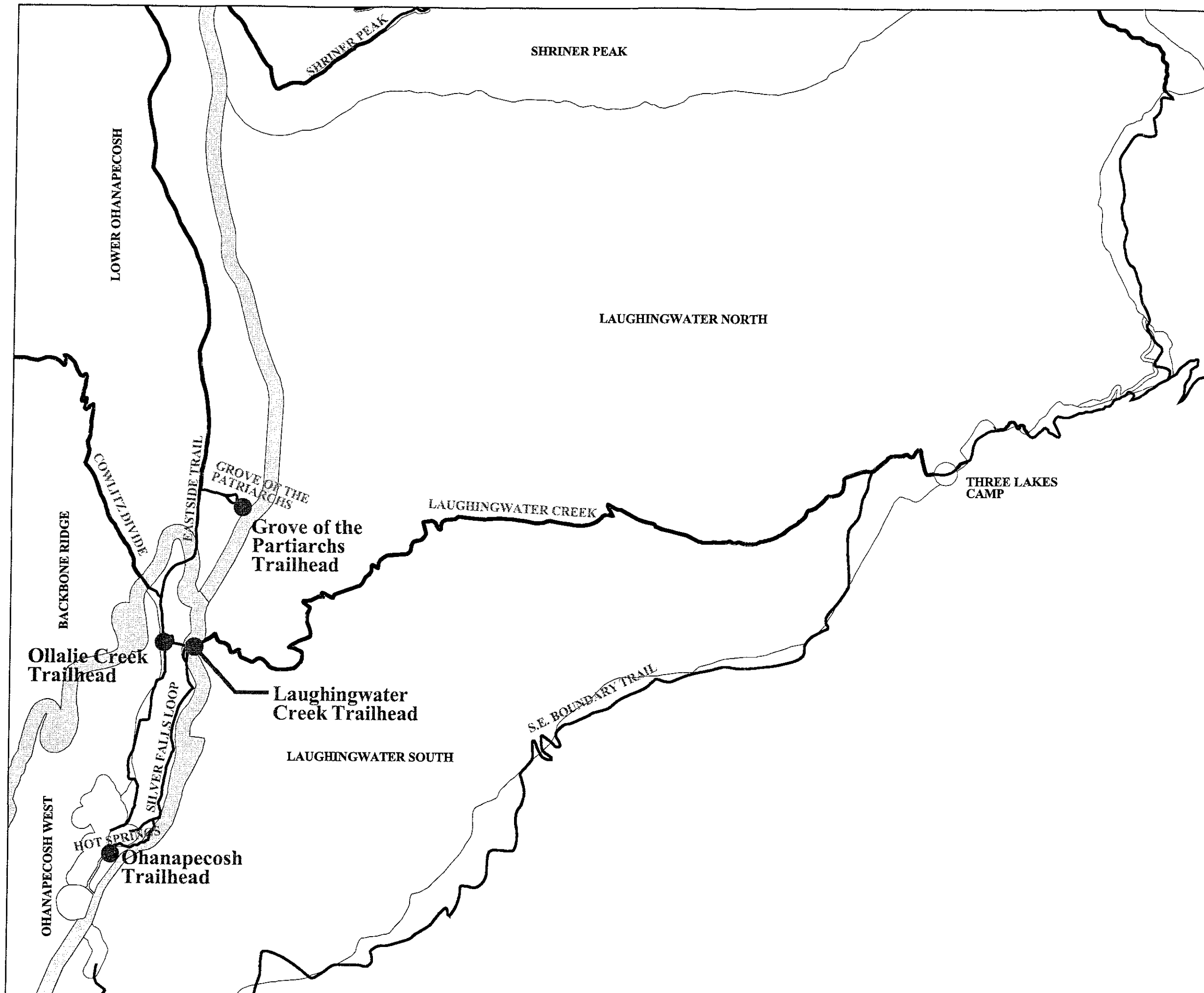
-  Trail
-  Management Areas
-  Road



Mount Rainier National Park

Legend

-  Trail
-  Management Areas
-  Road



WILDERNESS MANAGEMENT UNIT CAPACITY

This section documents the analysis of the visitation capacity of the wilderness management units (cross-country zones) in Mount Rainier National Park. A spreadsheet format is used to present the results of the analysis. Day-use capacity and overnight use limits are documented. The results of the analysis presented in this section are repeated in the trailhead summaries.

The following page provides an explanation of each column on the spreadsheet. The concepts used to estimate day-use capacity for the wilderness management units are illustrated on the attached diagrams.

Wilderness Management Unit Capacity Calculations

This stable documents the analysis of the capacity of the wilderness management units. Day use capacity is expressed as people at one time (PAOT). Overnight capacity is expressed as people per night. The illustrations following the table show the concepts that were applied in estimating day-use capacity.

- *Unit.* The four letter code for the wilderness management unit.
- *Zone Class.* The zone classification of the wilderness management unit; determines allowable encounter rate.
- *Type.* The type of zone.
- *Unit Name.* The common name of the wilderness unit.
- *Primary Trailhead.* The trailhead that most users of the zone would be expected to use. Matches the trailhead that is the subject of each sheet.
- *Hide.* The hide factor assigned to the unit; Hide = 1 identifies a unit with no vegetation and long-distance visibility, Hide = 5 identifies a unit with heavy vegetation and limited visibility.
- *Adjusted Usable Acres.* The area within which visitor use can occur in the unit. Portions of the unit with slopes greater than 30 % are excluded from usable area.
- *Encounters/Hour Allowed Within Standard.* The number of other parties that an individual party can encounter in one hour within the standard for the zone classification of the unit.
- *Area Covered per Hour.* The area that would be covered by individual parties over a one hour period, including the buffer zone within which an encounter is considered to have occurred. This area is greatest for units with low hide factors.
- *Area Needed/ Party at Standard.* The average area needed by individual parties at any given time to maintain the number of encounters allowed within the standard. Equal to Area Covered per Hour Divided by Encounters per Hour Allowed Within Standard.
- *Number of Parties Allowed at One Time.* The number of parties that can occupy the unit at one time. Equal to the Adjusted Usable Acres Divided by the Area Needed/ Party at Standard.
- *Number of People Allowed at One Time.* Equal to the Number of Parties Allowed at One Time times 3.0.
- *Overnight Carrying Capacity.* The number of people that can occupy the unit per night (from Mount Rainier park staff, Attachment 4).
- *Existing Use (Camper Nights per Year).* The number of camper nights that are spent in the unit per year (from Mount Rainier park staff, Attachment 5).

Trailside Camps. This section documents the overnight capacity of the trailside camps that are served by each trailhead. The same column headings as used for the wilderness management units appear in this section. Not all entries are relevant for the trailside camps.

MT. RAINIER

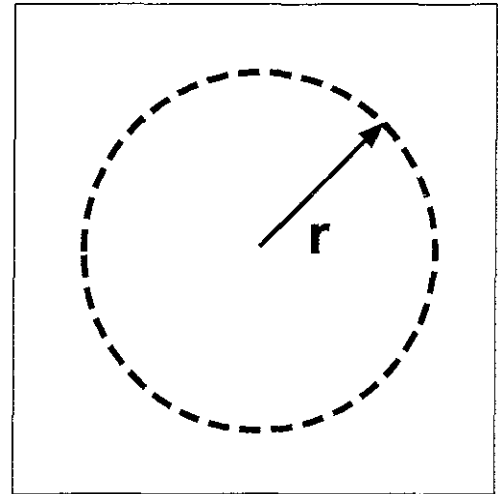
Capacity and Trail Analysis

Illustration Wilderness
Unit Capacity

1) Area in Which No Encounters Occur:

A circle with radius r , where r depends on the hide factor:

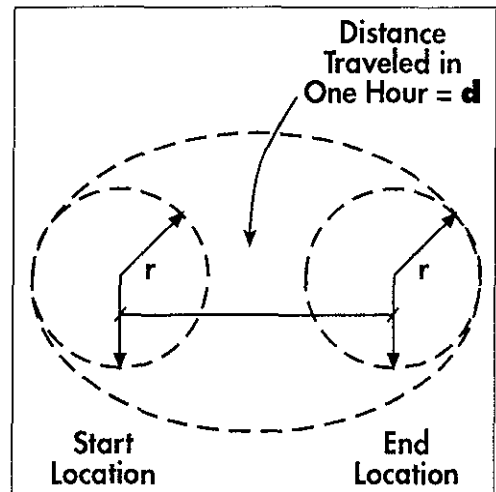
Hide Factor	r (feet)	
1	1320	
2	1065	
3	810	← judgement of analyst
4	555	
5	310	



2) Area needed "per hour" to have no more than one encounter:

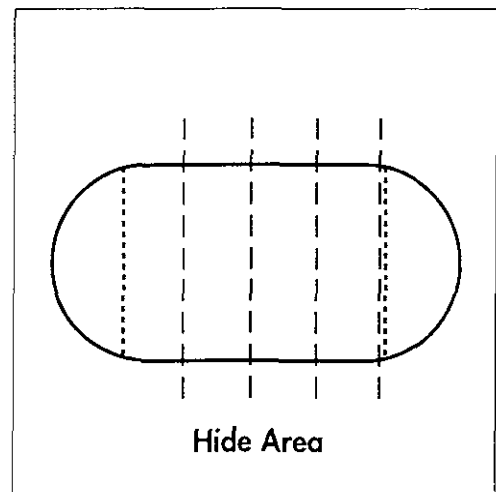
$$\text{"Hide Area"} = \pi r^2 + rd$$

where $d = 1/2$ mile
and r is from table above



3) Area Per Person:

Hide area divided by number of encounters allowed per hour (e.g. 5 in this example).



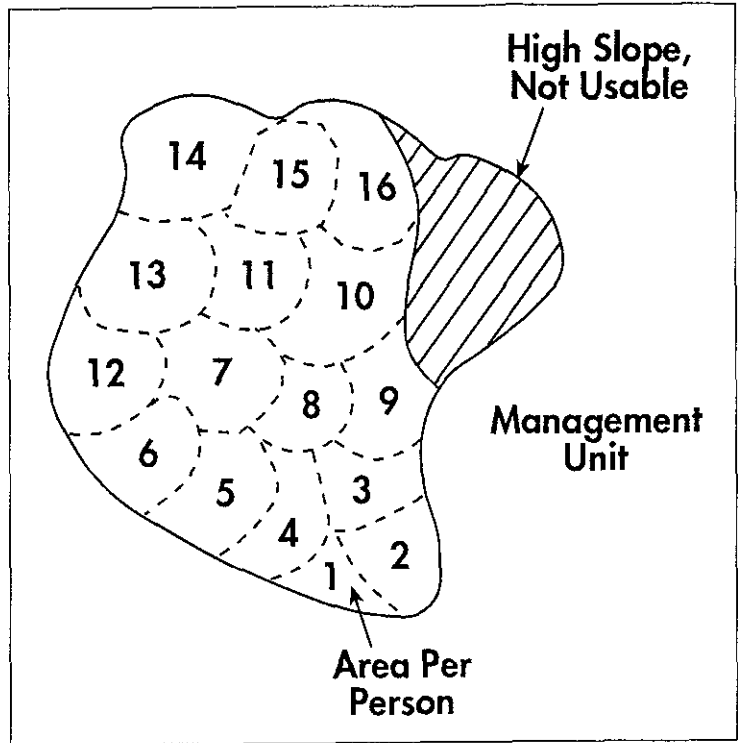
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Capacity and Trail Analysis

Illustration Wilderness
Unit Capacity

4) Allowed Occupancy:

16 people can "fit" given
usable area and area
needed per person



Maximum Day-Use Occupancy and Overnight Use - Wilderness Management Units

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party Within Standard (Acres)	Number of Parties Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
XCUR			LOWER CURTIS RIDGE	??							6.00	69.00
XTAM			TAMANOS MOUNTAIN	??							3.00	8.00
XCOW	PRIMITIVE	BACKCOUNTRY	COWLITZ PARK	Box Canyon	3	1211.56	0.25	145.50	582.00	2.08	9.00	59.00
XCOW	PRIMITIVE	BACKCOUNTRY	COWLITZ PARK	Box Canyon	3	1394.04	0.25	145.50	582.00	2.40		
XNIC	PRISTINE	BACKCOUNTRY	NICKLE CREEK	Box Canyon	5	2459.87	0.13	42.85	342.84	7.18		
XNIC	PRISTINE	BACKCOUNTRY	NICKLE CREEK	Box Canyon	5	1.58	0.13	42.85	342.84	2.00		
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	Box Canyon	5	335.06	0.13	42.85	342.84	2.00		
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	Box Canyon	5	1753.19	0.13	42.85	342.84	5.11		
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	Box Canyon	5	66.26	0.13	42.85	342.84	2.00		
XWIL	PRISTINE	BACKCOUNTRY	WILLIWAKAS CREEK	Box Canyon	5	975.28	0.13	42.85	342.84	2.84		
XCAY	PRISTINE	BACKCOUNTRY	CAYUSE PASS	Cayuse	5	2265.64	0.13	42.85	342.84	6.61		
XCAY	PRISTINE	BACKCOUNTRY	CAYUSE PASS	Cayuse	5	541.54	0.13	42.85	342.84	2.00		
XGOL	PRISTINE	BACKCOUNTRY	GOLDEN LAKES	Champion	5	1453.47	0.13	42.85	342.84	4.24		
XDEA	PRISTINE	BACKCOUNTRY	DEADWOOD LAKES	Chinook Pass	4	905.70	0.13	89.49	715.90	2.00	6.00	3.00
XDEA	PRISTINE	BACKCOUNTRY	DEADWOOD LAKES	Chinook Pass	4	4.67	0.13	89.49	715.90	2.00		
XLCR	PRISTINE	BACKCOUNTRY	LOWER CRYSTAL MOUNTAIN	Chinook Pass	5	858.35	0.13	42.85	342.84	2.50		
XLCR	PRISTINE	BACKCOUNTRY	LOWER CRYSTAL MOUNTAIN	Chinook Pass	5	652.45	0.13	42.85	342.84	2.00		
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1	2137.50	0.25	285.66	1142.65	2.00	unlimited	608.00
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1	74.78	0.25	285.66	1142.65	2.00		
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1	18.93	0.25	285.66	1142.65	2.00		
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	Comet Falls	1	3.61	0.25	285.66	1142.65	2.00		
XUPN	PRISTINE	BACKCOUNTRY	UPPER NISQUALLY	Comet Falls	5	380.14	0.13	42.85	342.84	2.00	Unlimited	205.00
XVAN	PRIMITIVE	BACKCOUNTRY	VAN TRUMP PARK	Comet Falls	1	191.26	0.25	285.66	1142.65	2.00		
XCOU	PRISTINE	BACKCOUNTRY	COUGAR ROCK	Cougar Rock	5	427.00	0.13	42.85	342.84	2.00		
XGVR	PRISTINE	BACKCOUNTRY	GOVERNORS RIDGE	Deer Creek	3	869.93	0.13	145.50	1164.00	2.00	3.00	0.00
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	Eagle Peak	3	504.97	0.25	145.50	582.00	2.00	5.00	75.00
AFRG	PRISTINE	GLACIER	FRYINGPAN GLACIER	Fryingpan	1	1297.02	0.13	285.66	2285.31	2.00		
AFRG	PRISTINE	GLACIER	FRYINGPAN GLACIER	Fryingpan	1	187.84	0.13	285.66	2285.31	2.00		
AGOA	PRISTINE	BACKCOUNTRY	GOAT ISLAND MTN	Fryingpan	1	734.03	0.13	285.66	2285.31	2.00	6.00	17.00
ALIT	PRIMITIVE	BACKCOUNTRY	LITTLE TAHOMA	Fryingpan	1	2354.26	0.25	285.66	1142.65	2.06	6.00	124.00
AMOU	PRISTINE	BACKCOUNTRY	MOUNT RUTH	Fryingpan	1	360.51	0.13	285.66	2285.31	2.00	6.00	12.00
ASAR	PRISTINE	BACKCOUNTRY	SARVENT ALPINE	Fryingpan	1	719.85	0.13	285.66	2285.31	2.00	3.00	33.00
XFRY	PRISTINE	BACKCOUNTRY	FRYINGPAN	Fryingpan	2	315.57	0.13	210.89	1687.14	2.00	3.00	30.00
XGLO	PRISTINE	BACKCOUNTRY	LOWER GOAT ISLAND MTN	Fryingpan	5	1634.04	0.13	42.85	342.84	4.77		
XLFR	PRISTINE	BACKCOUNTRY	LOWER FRYINGPAN	Fryingpan	5	614.02	0.13	42.85	342.84	2.00		
XLFR	PRISTINE	BACKCOUNTRY	LOWER FRYINGPAN	Fryingpan	5	2.75	0.13	42.85	342.84	2.00		
ACAG	PRISTINE	GLACIER	CARBON GLACIER	Ipsut	1	2595.56	0.13	285.66	2285.31	2.00		
ACAR	PRIMITIVE	BACKCOUNTRY	CARBON ALPINE	Ipsut	1	782.83	0.25	285.66	1142.65	2.00	9.00	149.00
ACRE	PRISTINE	BACKCOUNTRY	CRESENT LAKE	Ipsut	1	904.14	0.13	285.66	2285.31	2.00	6.00	7.00
AOLD	PRISTINE	BACKCOUNTRY	OLD DESOLATE	Ipsut	1	352.39	0.13	285.66	2285.31	2.00	6.00	2.00
XALK	PRISTINE	BACKCOUNTRY	ALKI CREST	Ipsut	2	339.69	0.13	210.89	1687.14	2.00	6.00	4.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5	216.40	0.13	42.85	342.84	2.00		20.00
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	Ipsut	5	93.67	0.13	42.85	342.84	2.00		
XCAN	PRISTINE	BACKCOUNTRY	NORTH CARBON RIVER	Ipsut	5	1829.92	0.13	42.85	342.84	5.34		
XCAW	PRISTINE	BACKCOUNTRY	CARBON RIVER WEST	Ipsut	5	1193.03	0.13	42.85	342.84	3.48		
XCHE	PRISTINE	BACKCOUNTRY	CHENUIS LAKES	Ipsut	2	149.23	0.13	210.89	1687.14	2.00	6.00	15.00
XECH	PRISTINE	BACKCOUNTRY	ECHO CLIFFS	Ipsut	5	298.07	0.13	42.85	342.84	2.00		
XEYS	PRISTINE	BACKCOUNTRY	ELYSIAN FIELDS	Ipsut	2	382.65	0.13	210.89	1687.14	2.00	6.00	37.00
XLCC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5	1604.82	0.13	42.85	342.84	4.68		
XLCC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5	0.52	0.13	42.85	342.84	2.00		
XLCC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	Ipsut	5	1.29	0.13	42.85	342.84	2.00		
XLWF	PRISTINE	BACKCOUNTRY	LOWER WEST FORK	Ipsut	5	2866.32	0.13	42.85	342.84	8.36		
XMIN	PRISTINE	BACKCOUNTRY	MINERAL MOUNTAIN	Ipsut	3	391.28	0.13	145.50	1164.00	2.00	9.00	17.00
XNOR	PRIMITIVE	BACKCOUNTRY	NORTHERN LAKES	Ipsut	4	673.96	0.25	89.49	357.95	2.00	9.00	13.00
XSEA	PRISTINE	BACKCOUNTRY	SEATTLE PARK	Ipsut	2	375.64	0.13	210.89	1687.14	2.00	6.00	37.00
XTIR	PRISTINE	BACKCOUNTRY	TIRZAH PEAK	Ipsut	5	2198.36	0.13	42.85	342.84	6.41		
XTYE	PRISTINE	BACKCOUNTRY	TYEE PEAK	Ipsut	1	514.95	0.13	285.66	2285.31	2.00	10.00	5.00

Maximum Day-Use Occupancy and Overnight Use - Wilderness Management Units

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party Within Standard (Acres)	Number of Parties Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
XUPC	PRISTINE	BACKCOUNTRY	UPPER CARBON RIVER	Ipsut	5	832.90	0.13	42.85	342.84	2.43		
XVER	PRISTINE	BACKCOUNTRY	VERNAL PARK	Ipsut	2	297.66	0.13	210.89	1687.14	2.00	6.00	4.00
ASTK	PRISTINE	GLACIER	S TAHOMA/KAUTZ GLACIER	Kautz	1	631.87	0.13	285.66	2285.31	2.00		
ASTK	PRISTINE	GLACIER	S TAHOMA/KAUTZ GLACIER	Kautz	1	42.07	0.13	285.66	2285.31	2.00		
ASTK	PRISTINE	GLACIER	S TAHOMA/KAUTZ GLACIER	Kautz	1	367.69	0.13	285.66	2285.31	2.00		
XARA	PRIMITIVE	BACKCOUNTRY	MOUNT ARARAT	Kautz	3	331.77	0.25	145.50	582.00	2.00		
XKAU	PRISTINE	BACKCOUNTRY	LOWER KAUTZ CREEK	Kautz	5	2513.82	0.13	42.85	342.84	7.33		
XPYR	PRIMITIVE	BACKCOUNTRY	PYRAMID PEAK	Kautz	3	796.60	0.25	145.50	582.00	2.00	15.00	137.00
XSAT	PRIMITIVE	BACKCOUNTRY	SATULICK MOUNTAIN	Kautz	3	437.18	0.25	145.50	582.00	2.00		
XUPK	PRISTINE	BACKCOUNTRY	UPPER KAUTZ CREEK	Kautz	5	1168.78	0.13	42.85	342.84	3.41		
XMIR	PRISTINE	BACKCOUNTRY	MIRROR LAKES	Longmire	5	96.19	0.13	42.85	342.84	2.00		
XEAS	PRISTINE	BACKCOUNTRY	EAGLE PEAK SOUTH	Longmire/Maternity	5	1022.83	0.13	42.85	342.84	2.98		
XRAM	PRISTINE	BACKCOUNTRY	THE RAMPARTS	Longmire/Maternity	5	190.61	0.13	42.85	342.84	2.00		
XRIC	PRISTINE	BACKCOUNTRY	RICKSECKER POINT	Longmire/Maternity	5	521.27	0.13	42.85	342.84	2.00		
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	Longmire/Maternity	5	2.00	0.13	42.85	342.84	2.00		
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	Longmire/Maternity	5	984.11	0.13	42.85	342.84	2.87		
AMOG	PRISTINE	GLACIER	MOWICH GLACIER	Mowich	1	1695.89	0.13	285.66	2285.31	2.00		
AMOT	PRISTINE	BACKCOUNTRY	MOTHER MOUNTAIN	Mowich	1	1397.37	0.13	285.66	2285.31	2.00	6.00	32.00
APTA	PRIMITIVE	BACKCOUNTRY	PTARMIGAN RIDGE	Mowich	1	3013.21	0.25	285.66	1142.65	2.64	9.00	94.00
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	Mowich	5	19.53	0.13	42.85	342.84	2.00		
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	Mowich	5	1384.65	0.13	42.85	342.84	4.04		
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	Mowich	5	14.86	0.13	42.85	342.84	2.00		
XGOV	PRISTINE	BACKCOUNTRY	GOVE PEAK	Mowich	2	312.08	0.13	210.89	1687.14	2.00	6.00	0.00
XLMW	PRISTINE	BACKCOUNTRY	LOWER MOWICH RIVER	Mowich	5	893.38	0.13	42.85	342.84	2.61		
XMIS	PRISTINE	BACKCOUNTRY	MIST PARK	Mowich	2	315.99	0.13	210.89	1687.14	2.00	6.00	12.00
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2	123.09	0.13	210.89	1687.14	2.00		
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2	45.29	0.13	210.89	1687.14	2.00		
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2	13.40	0.13	210.89	1687.14	2.00		
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2	36.60	0.13	210.89	1687.14	2.00		
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2	1.62	0.13	210.89	1687.14	2.00		
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	Mowich	2	1.02	0.13	210.89	1687.14	2.00		
XSPN	PRIMITIVE	BACKCOUNTRY	SPRAY PARK NORTH	Mowich	1	91.24	0.25	285.66	1142.65	2.00		
XSPN	PRIMITIVE	BACKCOUNTRY	SPRAY PARK NORTH	Mowich	1	45.17	0.25	285.66	1142.65	2.00		
XSPS	PRIMITIVE	BACKCOUNTRY	SPRAY PARK SOUTH	Mowich	1	422.07	0.25	285.66	1142.65	2.00	6.00	63.00
XSUN	PRISTINE	BACKCOUNTRY	SUNSET PARK	Mowich	3	54.89	0.13	145.50	1164.00	2.00	9.00	29.00
XSUN	PRISTINE	BACKCOUNTRY	SUNSET PARK	Mowich	3	1183.62	0.13	145.50	1164.00	2.00		
XSUN	PRISTINE	BACKCOUNTRY	SUNSET PARK	Mowich	3	310.23	0.13	145.50	1164.00	2.00		
XUMP	PRISTINE	BACKCOUNTRY	UPPER MOWICH RIVER	Mowich	5	3234.18	0.13	42.85	342.84	9.43		
XVIR	PRISTINE	BACKCOUNTRY	VRIGINA PEAK	Mowich	5	1483.58	0.13	42.85	342.84	4.33		
XVIR	PRISTINE	BACKCOUNTRY	VRIGINA PEAK	Mowich	5	1.41	0.13	42.85	342.84	2.00		
XBAC	PRISTINE	BACKCOUNTRY	BACKBONE RIDGE	Ohanapecosh	5	4288.85	0.13	42.85	342.84	12.51		
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5	67.62	0.13	42.85	342.84	2.00		
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5	5758.77	0.13	42.85	342.84	16.80		
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5	19.26	0.13	42.85	342.84	2.00		
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	Ohanapecosh	5	0.43	0.13	42.85	342.84	2.00		
XLAS	PRISTINE	BACKCOUNTRY	LAUGHINGWATER SOUTH	Ohanapecosh	5	2933.39	0.13	42.85	342.84	8.56		
XLOC	PRISTINE	BACKCOUNTRY	LOWER COWLITZ	Ohanapecosh	5	1072.95	0.13	42.85	342.84	3.13		
XLOO	PRISTINE	BACKCOUNTRY	LOWER OHANAPECOSH	Ohanapecosh	5	5082.71	0.13	42.85	342.84	14.83		
XLOO	PRISTINE	BACKCOUNTRY	LOWER OHANAPECOSH	Ohanapecosh	5	618.00	0.13	42.85	342.84	2.00		
XOHA	PRISTINE	BACKCOUNTRY	OHANAPECOSH PARK	Ohanapecosh	2	1033.46	0.13	210.89	1687.14	2.00	9.00	39.00
XOHW	PRISTINE	BACKCOUNTRY	OHANAPECOSH WEST	Ohanapecosh	5	448.66	0.13	42.85	342.84	2.00		
ATAM	PRISTINE	BACKCOUNTRY	TAMANOS CREEK	Owyhigh	1	647.18	0.13	285.66	2285.31	2.00		
ACCH			CAMP HAZARD	Paradise							Unlimited	1120.00
ACOG	PRISTINE	GLACIER	COWLITZ GLACIER	Paradise	1	1419.57	0.13	285.66	2285.31	2.00		
ACOW	PRIMITIVE	BACKCOUNTRY	COWLITZ ALPINE	Paradise	1	1246.26	0.25	285.66	1142.65	2.00		
ACTH			THUMB ROCK	Paradise							Unlimited	199.00
ADIS	HIGH USE CLIMBING	GLACIER	DISAPPOINTMENT CLEAVER	Paradise	1	65.18	18.75	394.76	21.05	3.10	unlimited	12.00

Maximum Day-Use Occupancy and Overnight Use - Wilderness Management Units

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Encounters/Hr		Area Covered / Hr (Acres)	Area Needed / Party Within Standard (Acres)	Number of Parties Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
						Usable	Allowed Under Standard					
AING	HIGH USE CLIMBING	GLACIER	INGRAHAM FLATS	Paradise	1	360.58	18.75	394.76	21.05	17.13	36.00	1135.00
AINI			INTERGLACIER	Paradise							6.00	148.00
AKFF	MOD. USE CLIMBING	BACKCOUNTRY	KAUTZ/FUHER ROUTE	Paradise	1	78.71	9.38	394.76	42.11	2.00		
AMUE	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR EAST	Paradise	1	89.16	0.13	285.66	2285.31	2.00		
AMUI	HIGH USE CLIMBING	GLACIER	MUIR SNOWFIELD	Paradise	1	255.27	18.75	394.76	21.05	12.12	24.00	737.00
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	Paradise	1	125.76	0.13	285.66	2285.31	2.00		
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	Paradise	1	53.46	0.13	285.66	2285.31	2.00		
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1	526.24	0.13	285.66	2285.31	2.00	unlimited	320.00
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1	23.24	0.13	285.66	2285.31	2.00		
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	Paradise	1	155.69	0.13	285.66	2285.31	2.00		
APBL	HIGH USE CLIMBING	BACKCOUNTRY	PEBBLE CREEK	Paradise	1	114.14	18.75	394.76	21.05	5.42		
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	Paradise	5	16.85	0.13	42.85	342.84	2.00		
ASUM	HIGH USE CLIMBING	GLACIER	SUMMIT	Paradise/Wht Riv	1	727.89	18.75	285.66	15.24	47.78	unlimited	249.00
XBUT	RESEARCH NATURAL AREA RNA		BUTTER CREEK RNA	Pinnacle Peak	0	2548.78	0.00	na	0.00	0.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	278.14	0.13	145.50	1164.00	2.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	216.18	0.13	145.50	1164.00	2.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	58.15	0.13	145.50	1164.00	2.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	147.36	0.13	145.50	1164.00	2.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	17.36	0.13	145.50	1164.00	2.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	0.83	0.13	145.50	1164.00	2.00		
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	Reflection	3	4.68	0.13	145.50	1164.00	2.00		
XSTE	PRISTINE	BACKCOUNTRY	STEVENS RIDGE	Reflection	3	2116.23	0.13	145.50	1164.00	2.00	9.00	13.00
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	Reflection	3	504.97	0.25	145.50	582.00	2.00	5.00	75.00
XSHR	PRISTINE	BACKCOUNTRY	SHRINER PEAK	Shriner Peak	5	4175.54	0.13	42.85	342.84	12.18		
XSHR	PRISTINE	BACKCOUNTRY	SHRINER PEAK	Shriner Peak	5	50.50	0.13	42.85	342.84	2.00		
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	Snow Lake	3	667.69	0.25	145.50	582.00	2.00		
AWIN	PRISTINE	GLACIER	WINTHROP GLACIER	Sunrise	1	1907.96	0.13	285.66	2285.31	2.00		
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	Sunrise	1	24.12	0.13	285.66	2285.31	2.00		
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	Sunrise	1	215.98	0.13	285.66	2285.31	2.00		
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	Sunrise	1	32.25	0.13	285.66	2285.31	2.00		
XBMT	PRIMITIVE	BACKCOUNTRY	BURROUGHS MOUNTAIN	Sunrise	2	878.52	0.25	210.89	843.57	2.00		
XBUR	PRISTINE	BACKCOUNTRY	BUNNET PARK	Sunrise	4	146.44	0.13	89.49	715.90	2.00	6.00	4.00
XELE	PRIMITIVE	BACKCOUNTRY	LAKE ELEANOR	Sunrise	5	611.34	0.25	42.85	171.42	3.57		
XELE	PRISTINE	BACKCOUNTRY	LAKE ELEANOR	Sunrise	1	2240.80	0.13	285.66	2285.31	2.00		
XFRE	PRIMITIVE	BACKCOUNTRY	MOUNT FREMONT	Sunrise	3	484.33	0.25	145.50	582.00	2.00		
XLOS	PRISTINE	BACKCOUNTRY	LOST CREEK	Sunrise	5	2393.52	0.13	42.85	342.84	6.98		
XMYL	PRISTINE	BACKCOUNTRY	MYSTIC LAKE	Sunrise	3	474.44	0.13	145.50	1164.00	2.00		
XNEE	PRISTINE	BACKCOUNTRY	MCNEELEY PEAK	Sunrise	3	270.96	0.13	145.50	1164.00	2.00		
XRIM	PRIMITIVE	BACKCOUNTRY	SUNRISE RIM	Sunrise	3	36.53	0.25	145.50	582.00	2.00		
XRIM	PRIMITIVE	BACKCOUNTRY	SUNRISE RIM	Sunrise	3	7.19	0.25	145.50	582.00	2.00		
XSKY	PRISTINE	BACKCOUNTRY	SKYSCRAPER MOUNTAIN	Sunrise	2	168.07	0.13	210.89	1687.14	2.00	6.00	21.00
XSKY	PRISTINE	BACKCOUNTRY	SKYSCRAPER MOUNTAIN	Sunrise	2	282.84	0.13	210.89	1687.14	2.00		
XSLK	PRIMITIVE	BACKCOUNTRY	SHADOW LAKE	Sunrise	1	17.05	0.25	285.66	1142.65	2.00		
XSLK	PRIMITIVE	BACKCOUNTRY	SHADOW LAKE	Sunrise	1	166.55	0.25	285.66	1142.65	2.00		
XSRD	PRIMITIVE	BACKCOUNTRY	SOURDOUGH RIDGE	Sunrise	1	121.29	0.25	285.66	1142.65	2.00		
XSRM	PRIMITIVE	BACKCOUNTRY	SUNRISE MEADOW	Sunrise	1	9.91	0.25	285.66	1142.65	2.00		
XSRM	PRIMITIVE	BACKCOUNTRY	SUNRISE MEADOW	Sunrise	1	196.01	0.25	285.66	1142.65	2.00		
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE ROAD	Sunrise	5	1052.75	0.13	42.85	342.84	3.07		
XUGC	PRISTINE	BACKCOUNTRY	UPPER GRANITE CREEK	Sunrise	5	275.14	0.13	42.85	342.84	2.00	Unlimited	36.00
XUWF	PRISTINE	BACKCOUNTRY	UPPER WEST FORK	Sunrise	5	134.55	0.13	42.85	342.84	2.00		
XWFW	PRISTINE	BACKCOUNTRY	WEST FORK WHITE RIVER	Sunrise	5	285.97	0.13	42.85	342.84	2.00		
XGRE	PRISTINE	BACKCOUNTRY	GREEN PARK	Sunrise Pt	2	833.25	0.13	210.89	1687.14	2.00	6.00	79.00
XHUC	PRISTINE	BACKCOUNTRY	HUCKLEBERRY PARK	Sunrise Pt	3	997.32	0.13	145.50	1164.00	2.00	6.00	2.00
XPAL	PRISTINE	BACKCOUNTRY	LOWER PALISADES	Sunrise Pt	3	411.93	0.13	145.50	1164.00	2.00	6.00	6.00
XSLI	PRISTINE	BACKCOUNTRY	SLIDE MOUNTAIN	Sunrise Pt	3	1290.32	0.13	145.50	1164.00	2.00	3.00	7.00
XSRN	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE NORTH	Sunrise Pt	5	3060.43	0.13	42.85	342.84	8.93		
XSRN	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE SOUTH	Sunrise Pt	5	3398.57	0.13	42.85	342.84	9.91		

Maximum Day-Use Occupancy and Overnight Use - Wilderness Management Units

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Encounters/Hr		Area Covered / Hr (Acres)	Area Needed / Party		Number of Parties Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
						Usable Acres	Allowed Under Standard		Within Standard (Acres)				
XWHI	PRISTINE	BACKCOUNTRY	WHITE RIVER PARK	Sunrise Pt	3	1215.77	0.13	145.50	1164.00	2.00		9.00	7.00
XCRY	PRISTINE	BACKCOUNTRY	CRYSTAL MOUNTAIN	Tipsoo	2	139.49	0.13	210.89	1687.14	2.00		6.00	0.00
XCRY	PRISTINE	BACKCOUNTRY	CRYSTAL MOUNTAIN	Tipsoo	2	234.11	0.13	210.89	1687.14	2.00			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	146.06	0.13	42.85	342.84	2.00			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	12.56	0.13	42.85	342.84	2.00			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	29.01	0.13	42.85	342.84	2.00			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	1998.36	0.13	42.85	342.84	5.83			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	1.98	0.13	42.85	342.84	2.00			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	19.78	0.13	42.85	342.84	2.00			
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	Tipsoo	5	19.04	0.13	42.85	342.84	2.00			
XGOS	PRISTINE	BACKCOUNTRY	GHOST LAKE	Tipsoo	5	513.61	0.13	42.85	342.84	2.00			
XGRA	PRISTINE	BACKCOUNTRY	GRAND PARK	USFS	3	395.17	0.13	145.50	1164.00	2.00		5.00	41.00
XGRA	PRIMITIVE	BACKCOUNTRY	GRAND PARK	USFS	3	692.32	0.25	145.50	582.00	2.00		4.00	41.00
XHCR	PRIMITIVE	BACKCOUNTRY	HUCKLEBERRY CREEK	USFS	6	259.44	0.26	42.85	171.42	2.00			
ACOL	PRISTINE	BACKCOUNTRY	COLONADES ALPINE	Westside	1	625.85	0.13	285.66	2285.31	2.00		6.00	47.00
APTG	PRISTINE	GLACIER	PUYALLUP/TAHOMA GLACIERS	Westside	1	3004.10	0.13	285.66	2285.31	2.00			
ASTK	PRIMITIVE	BACKCOUNTRY	S TAHOMA/KAUTZ GLACIER	Westside	1	5.92	0.25	285.66	1142.65	2.00			
ATOK	PRIMITIVE	BACKCOUNTRY	TOKALOO ALPINE	Westside	1	1254.95	0.25	285.66	1142.65	2.00		9.00	405.00
XEME	PRISTINE	BACKCOUNTRY	EMERALD RIDGE	Westside	5	842.70	0.13	42.85	342.84	2.46			
XEME	PRISTINE	BACKCOUNTRY	EMERALD RIDGE	Westside	5	26.36	0.13	42.85	342.84	2.00			
XKEN	PRISTINE	BACKCOUNTRY	KENWORTHY LAKES	Westside	5	894.06	0.13	42.85	342.84	2.61			
XKLA	PRISTINE	BACKCOUNTRY	KLAPATCHE RIDGE	Westside	5	424.38	0.13	42.85	342.84	2.00			
XSTA	PRISTINE	BACKCOUNTRY	ST ANDREWS	Westside	5	364.11	0.13	42.85	342.84	2.00			
XTAH	PRISTINE	BACKCOUNTRY	TAHOMA CREEK	Westside	5	3020.65	0.13	42.85	342.84	8.81			
XUPP	PRISTINE	BACKCOUNTRY	UPPER PUYALLUP	Westside	5	4.94	0.13	42.85	342.84	2.00			
XUWR	PRISTINE	BACKCOUNTRY	UPPER WESTSIDE ROAD	Westside	5	1485.39	0.13	42.85	342.84	4.33			
XWOW	PRISTINE	BACKCOUNTRY	MOUNT WOW	Westside	5	2061.63	0.13	42.85	342.84	6.01			
AEMG	PRISTINE	GLACIER	EMMONS GLACIER	White River	1	2290.63	0.13	285.66	2285.31	2.00			279.00
AEMR	MOD. USE CLIMBING	GLACIER	EMMONS ROUTE	White River	1	346.51	9.38	285.66	30.47	11.37			500.00
AGLA	PRIMITIVE	BACKCOUNTRY	GLACIER BASIN	White River	1	357.02	0.25	285.66	1142.65	2.00			
XWIT	PRIMITIVE	BACKCOUNTRY	UPPER WHITE RIVER	White River	1	37.65	0.25	285.66	1142.65	2.00			
XWIT	PRIMITIVE	BACKCOUNTRY	UPPER WHITE RIVER	White River	1	687.05	0.25	285.66	1142.65	2.00			
NOWILD	HIGH USE TRAIL	TRAIL	TRAIL ZONE		0	5.95	25.00	na	0.00	0.00			
TOTAL						155647.54				635.55		353.00	7,442.00

Maximum Day-Use Occupancy and Overnight Use - Wilderness Management Units

Unit	Zone Class	TYPE	Unit Name	Primary Trailhead	Hide	Adjusted Usable Acres	Encounters/Hr Allowed Under Standard	Area Covered / Hr (Acres)	Area Needed / Party Within Standard (Acres)	Number of Parties Allowed (at one time)	Overnight Use Limit (people per night)	Existing Use (camper nights per yr)
BCIB	SEMI-PRIMITIVE	CAMP	INDIAN BAR CAMP	Box Canyon	0	7.75		na	na		14.00	484.00
BCMC	SEMI-PRIMITIVE	CAMP	MAPLE CREEK CAMP	Box Canyon	0	7.74		na	na		17.00	441.00
BCNC	SEMI-PRIMITIVE	CAMP	NICKLE CREEK CAMP	Box Canyon	0	7.74		na	na		14.00	425.00
BCLC	SEMI-PRIMITIVE	CAMP	LOWER CRYSTAL CAMP	Chinook Pass	0	7.74		na	na		6.00	148.00
BCUC	SEMI-PRIMITIVE	CAMP	UPPER CRYSTAL CAMP	Chinook Pass	0	7.75		na	na		6.00	205.00
BCDR	SEMI-PRIMITIVE	CAMP	DEER CREEK	Deer Creek	0	7.74		na	na		6.00	164.00
BCKP	SEMI-PRIMITIVE	CAMP	KLAPATCHE PARK CAMP	Dry Creek	0	7.73		na	na		12.00	358.00
BCLG	SEMI-PRIMITIVE	CAMP	LAKE GEORGE CAMP	Dry Creek	0	7.71		na	na		20.00	436.00
BCNP	SEMI-PRIMITIVE	CAMP	NORTH PUYALLUP CAMP	Dry Creek	0	7.70		na	na		14.00	265.00
BCSP	SEMI-PRIMITIVE	CAMP	S PUYALLUP CAMP	Dry Creek	0	7.74		na	na		17.00	434.00
BCSC	TRANSITION	CAMP	SUMMERLAND CAMP	Fryingpan	0	7.74		na	na		20.00	791.00
BCCR	SEMI-PRIMITIVE	CAMP	CARBON RIVER CAMP	Ipsut Creek	0	7.74		na	na		4.00	380.00
BCDC	SEMI-PRIMITIVE	CAMP	DICK CREEK CAMP	Ipsut Creek	0	7.73		na	na		6.00	175.00
BCML	SEMI-PRIMITIVE	CAMP	MYSTIC LAKE CAMP	Ipsut Creek	0	7.73		na	na		31.00	792.00
BCRC	SEMI-PRIMITIVE	CAMP	REDSTONE CAMP	Ipsut Creek	0	7.61		na	na		6.00	111.00
BCYC	SEMI-PRIMITIVE	CAMP	YELLOWSTONE CLIFF CAMP	Ipsut Creek	0	0.05		na	na		6.00	103.00
BCTL	SEMI-PRIMITIVE	CAMP	THREE LAKES CAMP	Laughing Water Creek	0	7.71		na	na		11.00	62.00
BCDD	SEMI-PRIMITIVE	CAMP	DEVILS DREAM CAMP	Longmire/Maternity	0	7.74		na	na		26.00	816.00
BCGL	SEMI-PRIMITIVE	CAMP	GOLDEN LAKES CAMP	Longmire/Maternity	0	7.74		na	na		20.00	548.00
BCPC	SEMI-PRIMITIVE	CAMP	PYRAMID CREEK CAMP	Longmire/Maternity	0	7.75		na	na		0.00	279.00
BCCV	SEMI-PRIMITIVE	CAMP	CATARACT VALLEY CAMP	Mowich Lake	0	7.74		na	na		10.00	337.00
BCER	TRANSITION	CAMP	EAGLES ROOST CAMP	Mowich Lake	0	7.70		na	na		21.00	486.00
BCMR	SEMI-PRIMITIVE	CAMP	MOWICH RIVER CAMP	Mowich Lake	0	7.74		na	na		17.00	405.00
BCOC	SEMI-PRIMITIVE	CAMP	OLALLIE CREEK CAMP	Olallie Creek	0	7.75		na	na		11.00	152.00
BCTC	SEMI-PRIMITIVE	CAMP	TAMANOS CREEK CAMP	Owyhigh	0	7.74		na	na		17.00	171.00
BCCM		CAMP	CAMP MUIR	Paradise							110.00	6848.00
BCPR	SEMI-PRIMITIVE	CAMP	PARADISE RIVER CAMP	Reflection Lake	0	7.73		na	na		14.00	441.00
BCSR	SEMI-PRIMITIVE	CAMP	SHRINER PEAK CAMP	Shriner Peak	0	7.75		na	na		6.00	87.00
BCSL	TRANSITION	CAMP	SNOW LAKE CAMP	Snow Lake	0	7.75		na	na		6.00	332.00
BCBP	SEMI-PRIMITIVE	CAMP	BERKELEY PARK CAMP	Sunrise	0	7.75		na	na		9.00	400.00
BCFC	SEMI-PRIMITIVE	CAMP	FIRE CREEK CAMP	Sunrise	0	7.69		na	na		9.00	109.00
BCGC	SEMI-PRIMITIVE	CAMP	GRANITE CREEK CAMP	Sunrise	0	7.75		na	na		11.00	281.00
BCLE	SEMI-PRIMITIVE	CAMP	LAKE ELENOR CAMP	Sunrise	0	7.74		na	na		11.00	124.00
BCSW	TRANSITION	CAMP	SUNRISE CAMP	Sunrise	0	7.76		na	na		64.00	819.00
BCDL	SEMI-PRIMITIVE	CAMP	DICK LAKE CAMP	Sunrise Pt	0	7.64		na	na		3.00	51.00
BCUP	SEMI-PRIMITIVE	CAMP	UPPER PALISADES CAMP	Sunrise Pt	0	7.73		na	na		6.00	170.00
BCCS			CAMP SCHURMAN	White River							48.00	2181.00
BCGB	TRANSITION	CAMP	GLACIER BASIN CAMP	White River	0	7.76		na	na		20.00	1266.00

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted	Unusable	Hide	Usable	Acres	AREA	PERIMETER	WORK_	WORK_ID	WINTER	WINTER_SYM	SUMMER_SYM	UNUSABLE_A
XALK	PRISTINE	BACKCOUNTRY	ALKI CREST	XALK	589.780	250.500						2381469.750	12641.414	29	26	WINTER	9	163	249.970
XBAC	PRISTINE	BACKCOUNTRY	BACKBONE RIDGE	XPAC	5079.386	788.342						20510016.000	23932.529	314	297	WINTER	9	163	786.673
XBUR	PRISTINE	BACKCOUNTRY	BURNT PARK	XBUR	152.932	6.463						31227.063	627.550	86	404	WINTER	9	21	0.000
XBMT	PRIMITIVE	BACKCOUNTRY	BURNED MOUNTAIN	XBMT	1439.957	560.101						617521.125	4142.718	38	35	WINTER	9	163	6.449
ACAR	PRIMITIVE	BACKCOUNTRY	CARBON ALPINE	ACAR	1735.631	950.810						5814392.000	16847.811	113	92	WINTER	9	179	558.915
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	XCAR	767.715	550.066						10292766.000	13574.733	371	341	RESEARCH NATURAL AREA	10	10	1201.900
XCAE	PRISTINE	BACKCOUNTRY	CARBON RIVER EAST	XCAR	93.683	0.000						6463.906	319.321	245	217	SENSITIVE RESOURCE/REC	98	98	0.000
XCAW	PRISTINE	BACKCOUNTRY	CARBON RIVER WEST	XCAR	2029.014	834.007						34428.297	940.805	193	165	SENSITIVE RESOURCE/REC	98	98	0.000
XCAY	PRISTINE	BACKCOUNTRY	CAYUSE PASS	XPAC	2998.111	790.615						7009100.500	22985.646	137	112	WINTER	9	179	948.797
XCAY	PRISTINE	BACKCOUNTRY	CAYUSE PASS	XPAC	542.488	0.892						11821964.000	34934.258	71	58	WINTER	9	163	330.437
XCHE	PRISTINE	BACKCOUNTRY	CHENUIS LAKES	XCHE	167.558	16.276						31202.547	627.249	55	388	WINTER	9	21	0.000
ACOL	PRISTINE	BACKCOUNTRY	COLONADES ALPINE	ACOL	1377.101	749.517						3099950.500	12677.770	42	38	WINTER	9	163	548.901
XCOU	PRISTINE	BACKCOUNTRY	COUGAR ROCK	XNIS	666.720	239.147						378283.438	3584.957	44	40	WINTER	9	163	0.000
ACOW	PRIMITIVE	BACKCOUNTRY	COWLITZ ALPINE	ACOW	1554.844	307.776						8192941.000	22925.896	31	29	WINTER	9	163	852.241
XCOW	PRIMITIVE	BACKCOUNTRY	COWLITZ PARK	XCOW	1630.944	418.326						31198.516	627.547	83	401	WINTER	9	21	0.000
XCOW	PRIMITIVE	BACKCOUNTRY	COWLITZ PARK	XCOW	1767.213	372.208						12106051.000	34167.465	160	125	WINTER	9	163	729.068
ACRE	PRISTINE	BACKCOUNTRY	CRESENT LAKE	ACRE	1412.173	506.818						2190507.000	10936.848	204	176	WINTER	9	163	0.890
XCRY	PRISTINE	BACKCOUNTRY	CRYSTAL MOUNTAIN	XCRY	709.889	569.116						676580.250	3844.443	28	25	WINTER	9	163	18.237
XCRY	PRISTINE	BACKCOUNTRY	CRYSTAL MOUNTAIN	XCRY	358.098	123.692						5560586.000	18708.291	185	364	WINTER	9	163	747.930
XDEA	PRISTINE	BACKCOUNTRY	DEADWOOD LAKES	XDEA	1404.372	497.471						2692142.500	14895.576	292	279	WINTER	9	163	238.641
XDEA	PRISTINE	BACKCOUNTRY	DEADWOOD LAKES	XDEA	4.669	0.000						6276293.000	21594.867	261	242	WINTER	9	179	307.124
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	181.589	35.435						7085547.000	20432.006	221	194	WINTER	9	163	328.654
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	12.557	0.000						658577.000	19455.322	213	365	WINTER	9	179	417.440
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	29.017	0.000						7135817.500	18927.139	253	225	WINTER	9	179	371.418
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	2790.669	790.350						5702203.000	16302.431	45	41	WINTER	9	163	505.745
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	1.985	0.000						2866454.250	18690.754	41	37	WINTER	9	163	567.911
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	20.899	1.114						1445960.500	6242.360	147	115	WINTER	9	163	123.430
XDEW	PRISTINE	BACKCOUNTRY	DEWEY CREEK	XPAC	24.175	5.126						5670705.500	18227.031	151	117	WINTER	9	163	495.418
XEAS	PRISTINE	BACKCOUNTRY	EAGLE PEAK SOUTH	XNIS	1155.739	133.508						18852.453	591.452	188	160	WINTER	9	163	0.000
XECH	PRISTINE	BACKCOUNTRY	ECHO CLIFFS	XCAR	506.276	207.718						31180.453	627.029	237	469	WINTER	9	21	0.000
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	XCAR	19.536	0.000						31206.516	627.229	312	499	WINTER	9	21	0.000
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	XCAR	1561.256	176.079						739238.250	4810.686	186	168	WINTER	9	163	35.360
XELI	PRISTINE	BACKCOUNTRY	ELIZIBETH RIDGE	XCAR	14.860	0.000						50701.875	1712.627	191	163	WINTER	9	163	0.000
XEYS	PRISTINE	BACKCOUNTRY	ELYSIAN FIELDS	XEYS	522.750	139.749						117168.922	1734.691	194	166	WINTER	9	163	0.000
XEME	PRISTINE	BACKCOUNTRY	EMERALD RIDGE	XNIS	1418.421	574.362						11268422.000	20090.195	196	168	WINTER	9	163	788.676
XEME	PRISTINE	BACKCOUNTRY	EMERALD RIDGE	XNIS	26.360	0.000						8013.641	460.648	201	173	WINTER	9	163	0.000
XFRY	PRISTINE	BACKCOUNTRY	FRYINGPAN	XFRY	582.751	265.551						84388.531	1280.644	208	181	WINTER	9	163	1.112
XGOS	PRISTINE	BACKCOUNTRY	GHOST LAKE	XGOS	536.450	22.733						97616.672	1912.526	250	223	WINTER	9	163	5.115
AGLA	PRIMITIVE	BACKCOUNTRY	GLACIER BASIN	AGLA	458.691	101.411						31165.844	627.046	76	398	WINTER	9	21	0.000
AGOA	PRISTINE	BACKCOUNTRY	GOAT ISLAND MTN	AGOA	1476.178	740.428						30798.203	624.865	72	394	WINTER	9	21	0.000
XGOL	PRISTINE	BACKCOUNTRY	GOLDEN LAKES	XNIS	2188.326	733.076						303791.500	14532.795	377	190	WINTER	9	168	10.008
XGOW	PRISTINE	BACKCOUNTRY	GOVE PARK	XGOW	628.406	315.597						4670789.500	14832.705	217	347	WINTER	9	163	133.225
XGVR	PRISTINE	BACKCOUNTRY	GOVERNORS RIDGE	XGVR	1823.615	951.493						31023.672	625.292	138	414	WINTER	9	179	417.000
XGRA	PRISTINE	BACKCOUNTRY	GRAND PARK	XGRA	398.339	63.966						2044287.375	10731.378	58	50	WINTER	9	163	207.278
XGRA	PRIMITIVE	BACKCOUNTRY	GRAND PARK	XGRA	756.497	3.121						78882.625	1695.446	60	543	WINTER	9	163	0.000
XGRE	PRISTINE	BACKCOUNTRY	GREEN PARK	XGRE	1061.629	227.790						6304198.000	12879.904	64	52	WINTER	9	163	175.706
XHCR	PRIMITIVE	BACKCOUNTRY	HUCKLEBERRY CREEK	XPAC	547.179	287.078						60003.047	1204.493	84	64	WINTER	9	163	0.000
XHUC	PRISTINE	BACKCOUNTRY	HUCKLEBERRY PARK	XHUC	1324.676	326.526						2110808.000	6978.416	55	48	WINTER	9	163	139.453
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	AKAU	3630.007	1488.982						5727434.000	14847.377	265	244	WINTER	9	163	573.146
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	AKAU	112.757	37.888						106438.328	2225.667	287	273	WINTER	9	163	0.000
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	AKAU	40.146	21.172						9926482.000	17297.391	178	143	WINTER	9	163	167.236
AKAU	PRIMITIVE	BACKCOUNTRY	KAUTZ ALPINE	AKAU	15.897	12.256						2369258.750	10853.297	179	144	WINTER	9	245	234.702
AKFF	MODERATE USE CLIMBING	BACKCOUNTRY	KAUTZ/FUHER ROUTE	AKAU	401.280	321.849						31003.078	626.036	40	373	WINTER	9	21	0.000
XKEN	PRISTINE	BACKCOUNTRY	KENWORTHY LAKES	XNIS	1145.677	250.969						995973.063	7161.546	119	95	UNDEVELOPED	102	98	22.242
XKLA	PRISTINE	BACKCOUNTRY	KLAPATCHE RIDGE	XNIS	667.231	242.273						27142.563	642.690	131	107	UNDEVELOPED	102	7	0.000
XELE	PRISTINE	BACKCOUNTRY	LAKE ELEANOR	XELE	2889.276	646.807						7241.266	364.038	133	109	UNDEVELOPED	102	128	0.000
XELE	PRIMITIVE	BACKCOUNTRY	LAKE ELEANOR	XELE	639.100	27.834						5537.063	352.718	136	532	UNDEVELOPED	102	7	0.000
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	XPAC	96.793	29.193						239845.406	3394.664	148	116	ADMINISTRATIVE	329	329	6.227
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	XPAC	7089.810	1327.508						27417.828	714.012	158	123	UNDETERMINED	6	128	0.000
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	XPAC	19.267	0.000						219516.509	2294.857	159	124	UNDETERMINED	6	8	0.000
XLAN	PRISTINE	BACKCOUNTRY	LAUGHINGWATER NORTH	XPAC	0.431	0.000						68060.000	1120.118	190	162	WINTER	9	98	0.000
XLAS	PRISTINE	BACKCOUNTRY	LAUGHINGWATER SOUTH	XPAC	3453.720	518.874						3974077.750	12847.398	279	259	SENSITIVE RESOURCE/REC	98	98	131.440
ALIT	PRIMITIVE	BACKCOUNTRY	LITTLE TAHOMA	ALIT	3691.104	1333.843						795691.583	6242.915	300	286	SENSITIVE RESOURCE/REC	98	98	16.236
XLOS	PRISTINE	BACKCOUNTRY	LOST CREEK	XPAC	3553.097	1156.759						63959.594	2238.040	305	290	VISITOR FACILITIES	7	7	0.000
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	XCAR	2905.469	1297.601						2515.844	183.467	307	291	ADMINISTRATIVE	329	329	0.000
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	XCAR	0.620	0.000						35472.594	1617.054	308	292	ROADED MULTIUSE	103	7	0.000
XLOC	PRISTINE	BACKCOUNTRY	LOWER CARBON RIVER	XCAR	1.292	0.000						5461.422	421.238	313	296	ROADED MULTIUSE	103	7	0.000
XLOC	PRISTINE	BACKCOUNTRY	LOWER COWLITZ	XNIS	1106.340	33.208						20154.656	577.253	326	304	VISITOR FACILITIES	7	7	0.667
XLOR	PRISTINE	BACKCOUNTRY	LOWER CRYSTAL MOUNTAIN	XPAC	2491.153	1631.086						60406.688	1128.618	338	315	ROADED MULTIUSE	103	7	0.000
XLOR	PRISTINE	BACKCOUNTRY	LOWER CRYSTAL MOUNTAIN	XPAC	957.434	304.236						232081.813	2099.549	344	321	UNDETERMINED	8	8	0.667
XLFR	PRISTINE	BACKCOUNTRY	LOWER FRYINGPAN	XPAC	1278.191	562.635						206291.984	2236.546	363	336	SENSITIVE RESOURCE/REC	98	98	1.557
XLFR	PRISTINE	BACKCOUNTRY	LOWER FRYINGPAN	XPAC	2.755	0.000						719139.938	7031.784	367	339	SENSITIVE RESOURCE/REC	98	98	46.247
XGLO	PRISTINE	BACKCOUNTRY	LOWER GOAT ISLAND MTN	XPAC	2441.725	805.725						53462.828	1147.998	375	344	UNDETERMINED	8	8	0.000
XKAU	PRISTINE	BACKCOUNTRY	LOWER KAUTZ CREEK	XNIS	2838.192	323.402						449217.781	5854.411	376	345	UNDETERMINED	8	8	0.000
XLMO	PRIST																		

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLOZONE ACRES	Adjusted Unusable	Hide Usable Acres	AREA	PERIMETER WORK_	WORK_ID WINTER	WINTER_SYM	SUMMER_SYM	UNUSABLE_A
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	XMAZ	71.779	13.595		70693.609	964.908	386	358 MIX OF ZONES	128	329 0.000
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	XMAZ	147.375	0.900		186655.672	2676.917	387	359 MIX OF ZONES	128	128 0.000
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	XMAZ	20.493	3.121		754208.875	4630.780	388	360 MIX OF ZONES	128	128 0.000
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	XMAZ	0.830	0.000		56080.563	1140.483	389	351 ADMINISTRATIVE	329	329 0.000
XMAZ	PRISTINE	BACKCOUNTRY	MAZAMA RIDGE	XMAZ	4.678	0.000		2353086.000	12085.290	197	169 WINTER	9	163 265.987
XNEE	PRISTINE	BACKCOUNTRY	MONEELEY PEAK	XNEE	447.909	176.526		5792455.000	28094.649	210	183 WINTER	9	163 156.773
XMIN	PRISTINE	BACKCOUNTRY	MINERAL MOUNTAIN	XMIN	426.215	44.799		772086.000	4989.723	230	202 WINTER	9	163 9.394
XMIR	PRISTINE	BACKCOUNTRY	MIRROR LAKES	XNIS	162.099	65.750		2165127.000	9026.896	157	122 WINTER	9	163 22.685
XNIS	PRISTINE	BACKCOUNTRY	MIST PARK	XNIS	303.311	77.116		1652146.250	11047.822	169	135 WINTER	9	179 101.196
AMOT	PRISTINE	BACKCOUNTRY	MOTHER MOUNTAIN	AMOT	2391.257	991.544		31248.844	627.764	175	441 WINTER	9	31 0.000
XARA	PRIMITIVE	BACKCOUNTRY	MOUNT ARARAT	XPYR	361.061	29.195		5960650.000	12073.059	167	132 WINTER	9	163 738.860
XFRE	PRIMITIVE	BACKCOUNTRY	MOUNT FREMONT	XFRE	580.690	96.098		8836225.000	24686.314	166	131 WINTER	9	163 731.524
AMOU	PRISTINE	BACKCOUNTRY	MOUNT RUTH	AMOU	689.586	328.305		31192.968	627.083	183	444 WINTER	9	21 0.000
XWOW	PRISTINE	BACKCOUNTRY	MOUNT WOW	XNIS	3769.808	1704.181		2537435.250	8827.392	39	36 WINTER	9	163 314.919
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	XMOW	332.188	208.621		7363561.500	15373.793	177	142 WINTER	9	163 949.468
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	XMOW	51.545	6.238		1608428.000	10890.470	10	8 WINTER	9	163 63.831
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	XMOW	13.406	0.000		3054654.000	9117.708	36	33 WINTER	9	179 3.114
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	XMOW	59.617	22.958		31208.938	627.223	118	411 WINTER	9	21 0.000
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	XMOW	1.625	0.000		4288744.000	9465.138	47	42 WINTER	9	163 227.308
XMOW	PRISTINE	BACKCOUNTRY	MOWICH LAKE	XMOW	1.018	0.000		2209449.000	22058.244	6	6 WINTER	9	179 286.470
AMUE	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR EAST	ACOW	91.516	3.342		5348899.000	12425.423	75	60 WINTER	9	163 325.835
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	ANIS	305.585	176.816		31207.031	627.209	259	481 WINTER	9	21 0.000
AMUW	PRISTINE	BACKCOUNTRY	MUIR CORRIDOR WEST	ANIS	117.124	63.518		2168748.000	6371.027	218	191 WINTER	9	166 175.228
XMYS	PRISTINE	BACKCOUNTRY	MYSTIC LAKE	XMIN	602.481	127.711		14657580.000	56294.867	219	182 WINTER	9	179 1485.829
XNIC	PRISTINE	BACKCOUNTRY	NICKLE CREEK	XPAC	2719.228	258.532		455300.000	6377.733	232	204 WINTER	9	179 37.808
XNIC	PRISTINE	BACKCOUNTRY	NICKLE CREEK	XPAC	1.577	0.000		162105.016	2776.520	247	221 WINTER	9	179 21.127
XCAN	PRISTINE	BACKCOUNTRY	NORTH CARBON RIVER	XCAR	2725.863	893.766		64188.766	2079.391	268	248 WINTER	9	179 12.230
KNOR	PRIMITIVE	BACKCOUNTRY	NORTHERN LAKES	KNOR	898.298	223.772		1620324.125	16435.398	224	197 WINTER	9	246 321.167
XOHA	PRISTINE	BACKCOUNTRY	OHANAPECOSH PARK	XOHA	2262.083	1225.796		4626122.500	18360.818	223	196 WINTER	9	163 250.438
XOHW	PRISTINE	BACKCOUNTRY	OHANAPECOSH WEST	XPAC	693.759	244.505		31141.109	626.748	248	477 WINTER	9	21 0.000
AOLD	PRISTINE	BACKCOUNTRY	OLD DESOLATE	AOLD	756.521	403.196		2664208.000	11970.198	227	199 WINTER	9	163 241.760
APBL	HIGH USE CLIMBING	BACKCOUNTRY	PEBBLE CREEK	AMUI	115.270	1.114		1166588.000	23783.344	7	7 WINTER	0	163 646.437
APTA	PRIMITIVE	BACKCOUNTRY	PTARMIGAN RIDGE	APTA	4886.819	1868.848		2580617.000	10031.693	9	362 WINTER	9	179 27.575
XPYR	PRIMITIVE	BACKCOUNTRY	PTARMIGAN RIDGE	XPYR	1149.167	351.769		31205.156	627.237	19	369 WINTER	9	21 0.000
XRIC	PRISTINE	BACKCOUNTRY	RICKSECKER POINT	XNIS	576.946	55.496		31049.688	626.238	298	494 WINTER	9	21 0.000
ASTK	PRIMITIVE	BACKCOUNTRY	S TAHOMA/KAUTZ GLACIER	AKAU	5.925	0.000		390800.375	4315.281	277	256 WINTER	9	163 29.131
ASAR	PRISTINE	BACKCOUNTRY	SARVENT ALPINE	ASAR	1175.122	454.190		28627896.000	29138.115	278	257 WINTER	9	163 1324.695
XSAT	PRIMITIVE	BACKCOUNTRY	SATULICK MOUNTAIN	XPYR	678.685	240.922		77796.469	2028.105	320	300 WINTER	9	163 0.000
XSEA	PRISTINE	BACKCOUNTRY	SEATTLE PARK	XSEA	460.783	84.819		1740.719	250.881	332	309 WINTER	9	163 0.000
XSLK	PRIMITIVE	BACKCOUNTRY	SHADOW LAKE	XSLK	17.049	0.000		13945751.000	24047.305	347	324 WINTER	9	163 517.775
XSLK	PRIMITIVE	BACKCOUNTRY	SHADOW LAKE	XSLK	178.408	11.814		14904283.000	59288.504	182	151 WINTER	9	179 1350.819
XSHR	PRISTINE	BACKCOUNTRY	SHRINER PEAK	XPAC	5848.404	1568.720		14347028.000	40474.949	6	4 WINTER	9	163 1154.310
XSHR	PRISTINE	BACKCOUNTRY	SHRINER PEAK	XPAC	61.895	11.364		11731975.000	17292.387	14	12 WINTER	9	163 1284.853
XSKY	PRISTINE	BACKCOUNTRY	SKYSCRAPER MOUNTAIN	XSKY	460.594	311.817		2098.984	280.654	16	14 WINTER	9	163 0.000
XSKY	PRISTINE	BACKCOUNTRY	SKYSCRAPER MOUNTAIN	XSKY	366.630	83.579		5215.422	330.948	18	16 WINTER	9	163 0.000
XSLI	PRISTINE	BACKCOUNTRY	SLIDE MOUNTAIN	XSLI	2034.300	742.196		4467284.500	13279.754	359	332 WINTER	9	163 33.138
XSRD	PRIMITIVE	BACKCOUNTRY	SOURDOUGH RIDGE	XSRD	203.951	82.467		31205.375	628.148	141	418 WINTER	9	21 0.000
XSPN	PRIMITIVE	BACKCOUNTRY	SPRAY PARK NORTH	XSPN	91.245	0.000		10059009.000	21850.133	26	23 WINTER	9	163 1627.632
XSPN	PRIMITIVE	BACKCOUNTRY	SPRAY PARK NORTH	XSPN	62.548	7.354		3866016.500	13817.201	105	85 WINTER	9	163 303.592
XSPS	PRIMITIVE	BACKCOUNTRY	SPRAY PARK SOUTH	XSPS	427.248	5.127		5161199.500	18841.828	171	137 WINTER	9	163 681.232
XSTA	PRISTINE	BACKCOUNTRY	ST ANDREWS	XNIS	573.889	209.281		11124.813	569.507	174	141 WINTER	9	163 0.000
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	XNIS	419.532	84.249		9859426.000	24404.871	161	126 WINTER	9	163 804.019
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	XNIS	2347.302	592.617		11460315.000	25357.682	311	295 WINTER	9	163 322.717
XSCS	PRISTINE	BACKCOUNTRY	STEVENS CANYON SOUTH	XNIS	66.266	0.000		4214780.000	12103.834	101	80 WINTER	9	163 149.681
XSTE	PRISTINE	BACKCOUNTRY	STEVENS RIDGE	XSTE	3401.262	1281.963		29911516.000	44442.281	212	186 WINTER	9	163 2914.404
XSRM	PRIMITIVE	BACKCOUNTRY	SUNRISE MEADOW	XSRM	9.911	0.000		2495667.250	18477.313	240	210 WINTER	9	163 0.000
XSRM	PRIMITIVE	BACKCOUNTRY	SUNRISE MEADOW	XSRM	196.027	0.000		2247963.250	12653.835	24	21 WINTER	9	163 144.120
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE NORTH	XPAC	4704.363	1639.970		15917341.000	22385.436	11	9 WINTER	9	163 922.775
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE SOUTH	XSRM	4183.207	782.550		31194.500	627.086	370	526 WINTER	9	163 28.025
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE RIDGE SOUTH	XSRM	387.691	350.381		1387473.375	7866.672	302	287 WINTER	9	163 13.566
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE RIM	XSRM	7.191	0.000		986653.125	6066.938	303	288 WINTER	9	163 65.163
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE RIM	XSRM	1148.015	94.945		288834.438	2645.985	324	303 WINTER	9	163 13.566
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE ROAD	XPAC	121.013	65.976		959085.500	3857.319	327	305 WINTER	9	163 0.000
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE ROAD	XPAC	1676.289	491.455		82748.906	2041.945	342	319 WINTER	9	163 3.114
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE ROAD	XPAC	373.028	62.632		3351.984	296.544	343	320 WINTER	9	163 0.000
XSRM	PRISTINE	BACKCOUNTRY	SUNRISE ROAD	XPAC	4291.769	1267.969		18887.938	780.252	351	327 WINTER	9	163 0.000
ATAM	PRISTINE	BACKCOUNTRY	TAMANOS CREEK	ATAM	959.064	311.131		1808609.250	9759.489	61	53 WINTER	9	163 176.152
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	XNIS	13.653	44.799		1721009.750	13742.891	96	73 WINTER	9	163 44.794
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	XNIS	1395.568	411.445		654536.750	5544.964	276	255 WINTER	9	163 65.611
XTCR	PRISTINE	BACKCOUNTRY	TATOOSH CREEK	XNIS	16.848	0.000		1588147.750	6429.157	89	68 WINTER	9	163 76.953
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	XTAT	2355.635	1342.612		9655640.000	24718.846	49	43 WINTER	9	163 989.444
XTAT	PRIMITIVE	BACKCOUNTRY	TATOOSH RANGE	XTAT	1239.131	570.106		1475925.000	10225.982	293	290 WINTER	9	179 29.133
XHAM	PRISTINE	BACKCOUNTRY	THE RAMPARTS	XNIS	260.979	70.198		2344764.000	15032.731	77	61 WINTER	9	179 95.895
XTIR	PRISTINE	BACKCOUNTRY	TIRZAH PEAK	XCAR	2922.554	722.360		184476.250	9651.621	173	140 WINTER	9	163 327.610
ATOK	PRISTINE	BACKCOUNTRY	TOKALO ALPINE	ATOK	2289.905	1032.529		15222083.000	23791.227	291	278 WINTER	9	163 1700.572
XTYE	PRISTINE	BACKCOUNTRY	TYEE PEAK	XTYE	674.267	158.907		7941654.000	32089.070	194	129 WINTER	9	163 269.547
XUPC	PRISTINE	BACKCOUNTRY	UPPER CARBON RIVER	XCAR	1446.149	611.799		1341339.500	5065.514	66	55 WINTER	9	163 208.179
XUGC	PRISTINE	BACKCOUNTRY	UPPER GRANITE CREEK	XPAC	278.967	37.869		208134.122	2349.249	69	57 WINTER	9	163 6.225
XUPK	PRISTINE	BACKCOUNTRY	UPPER KAUTZ CREEK	XNIS	1551.527	381.779		54131.031	1061.366	81	552 WINTER	9	163 0.000
XUMP	PRISTINE	BACKCOUNTRY	UPPER MOWICH RIVER	XCAR	5106.196	1857.530		240728.156	2523.537	90	67 WINTER	9	163 22.909
XUPN	PRISTINE	BACKCOUNTRY	UPPER NISQUALLY	XNIS	763.022	381.997		6562.172	671.755	92	69 WINTER	9	163 0.000

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted	Unusable	Hide	Usable Acres	AREA	PERIMETER	WORK	WORK_ID	WINTER	WINTER_SYM	SUMMER_SYM	UNUSABLE	A
XUPP	PRISTINE	BACKCOUNTRY	UPPER PUYALLUP	XNIS		229.215	223.775				4109.828	317.452	99	76	WINTER	9	163	0.000	
XUWF	PRISTINE	BACKCOUNTRY	UPPER WEST FORK	XPAC		142.608	8.025				31174.655	626.998	146	428	WINTER	9	21	0.000	
XUWR	PRISTINE	BACKCOUNTRY	UPPER WESTSIDE ROAD	XNIS		2342.648	855.205				369531.313	6596.844	255	533	WINTER	9	163	3.335	
XWIT	PRIMITIVE	BACKCOUNTRY	UPPER WHITE RIVER	XWIT		37.649	0.000				1233918.500	6986.166	257	231	WINTER	9	163	179.036	
XWIT	PRIMITIVE	BACKCOUNTRY	UPPER WHITE RIVER	XWIT		1117.195	528.909				427934.750	5457.821	284	269	WINTER	9	163	63.384	
XVAN	PRIMITIVE	BACKCOUNTRY	VAN TRUMP PARK	XVAN		259.182	67.752				1153517.250	5834.843	238	211	WINTER	9	168	30.243	
XVER	PRISTINE	BACKCOUNTRY	VERNAL PARK	XVER		313.329	15.602				2432754.750	15770.349	78	62	WINTER	9	163	127.441	
XVIR	PRISTINE	BACKCOUNTRY	VRIGINA PEAK	XCAR		2168.395	683.146				31163.344	626.948	140	417	WINTER	9	21	0.000	
XVIR	PRISTINE	BACKCOUNTRY	VRIGINA PEAK	XCAR		1.410	0.000				10979953.000	20146.457	274	254	WINTER	9	163	257.985	
XWFW	PRISTINE	BACKCOUNTRY	WEST FORK WHITE RIVER	XPAC		288.457	2.449				6367.906	335.867	350	326	WINTER	9	163	0.000	
XWHI	PRISTINE	BACKCOUNTRY	WHITE RIVER PARK	XWHI		1510.298	293.752				31182.344	627.024	331	510	WINTER	9	21	0.000	
XWL	PRISTINE	BACKCOUNTRY	WILLIWKAS CREEK	XNIS		1673.859	696.927				3312680.500	10905.924	222	195	WINTER	9	163	292.682	
	PRISTINE	BACKCOUNTRY				0.034	0.000				188495.906	2579.986	228	201	WINTER	9	163	23.341	
BCBP	SEMI-PRIMITIVE	CAMP	BERKELEY PARK CAMP	BCBP		7.734	0.000				662104.313	4477.405	282	262	WINTER	9	163	8.228	
BCCR	SEMI-PRIMITIVE	CAMP	CARBON RIVER CAMP	BCCR		7.727	0.000				11006742.000	28358.838	2	1	WINTER	9	163	891.873	
BCCV	SEMI-PRIMITIVE	CAMP	CATARACT VALLEY CAMP	BCCV		7.726	0.000				31024.531	626.125	229	463	WINTER	9	21	0.000	
BCDR	SEMI-PRIMITIVE	CAMP	DEER CREEK	BCDR		7.722	0.000				3627233.250	9670.266	25	22	WINTER	9	179	223.298	
BCDD	SEMI-PRIMITIVE	CAMP	DEVILS DREAM CAMP	BCDD		7.728	0.000				9134040.000	21109.189	211	184	WINTER	9	163	1223.200	
BCDC	SEMI-PRIMITIVE	CAMP	DICK CREEK CAMP	BCDC		7.718	0.000				2801327.750	16384.214	373	342	WINTER	9	163	243.887	
BCDL	SEMI-PRIMITIVE	CAMP	DICK LAKE CAMP	BCDL		7.627	0.000				31208.453	627.230	322	506	WINTER	9	21	0.000	
BCER	TRANSITION	CAMP	EAGLES ROOST CAMP	BCER		7.683	0.000				3054749.250	9035.528	79	53	WINTER	9	163	402.342	
BCFC	SEMI-PRIMITIVE	CAMP	FIRE CREEK CAMP	BCFC		7.678	0.000				31138.094	626.862	357	518	WINTER	9	21	0.000	
BCGB	TRANSITION	CAMP	GLACIER BASIN CAMP	BCGB		7.739	0.000				465449.875	3608.769	262	534	WINTER	9	168	1.112	
BCGL	SEMI-PRIMITIVE	CAMP	GOLDEN LAKES CAMP	BCGL		7.725	0.000				19731242.000	81346.992	100	78	WINTER	9	179	1864.891	
BCGC	SEMI-PRIMITIVE	CAMP	GRANITE CREEK CAMP	BCGC		7.729	0.000				15065417.000	54478.508	200	172	WINTER	9	163	723.460	
BCIB	SEMI-PRIMITIVE	CAMP	INDIAN BAR CAMP	BCIB		7.729	0.000				31211.516	627.245	317	502	WINTER	9	21	0.000	
BCKP	SEMI-PRIMITIVE	CAMP	KLAPATCHE PARK CAMP	BCKP		7.712	0.000				4640215.000	16826.621	280	260	WINTER	9	179	350.964	
BCLE	SEMI-PRIMITIVE	CAMP	LAKE ELENOR CAMP	BCLE		7.728	0.000				30642.766	623.955	48	378	WINTER	9	21	0.000	
BCLG	SEMI-PRIMITIVE	CAMP	LAKE GEORGE CAMP	BCLG		7.690	0.000				2329645.750	13957.766	315	298	WINTER	9	163	55.378	
BCLC	SEMI-PRIMITIVE	CAMP	LOWER CRYSTAL CAMP	BCLC		7.728	0.000				323748.281	10728.977	13	11	UNDETERMINED	8	8	0.000	
BCMC	SEMI-PRIMITIVE	CAMP	MAPLE CREEK CAMP	BCMC		7.725	0.000				150123.625	5047.781	15	13	UNDETERMINED	8	8	0.000	
BCMR	SEMI-PRIMITIVE	CAMP	MOWICH RIVER CAMP	BCMR		7.721	0.000				2125540.500	35032.301	27	83	ROADED MOTORIZED	94	94	0.000	
BCML	SEMI-PRIMITIVE	CAMP	MYSTIC LAKE CAMP	BCML		7.718	0.000				399296.688	12843.751	59	542	ROADED MOTORIZED	94	94	0.000	
BCNC	SEMI-PRIMITIVE	CAMP	NICKLE CREEK CAMP	BCNC		7.722	0.000				41795.198	1493.365	88	77	ROADED MULTIUSE	103	103	0.000	
BCNP	SEMI-PRIMITIVE	CAMP	NORTH PUYALLUP CAMP	BCNP		7.683	0.000				88432.578	3026.945	94	539	ROADED MOTORIZED	94	94	0.000	
BCOC	SEMI-PRIMITIVE	CAMP	OLALLIE CREEK CAMP	BCOC		7.729	0.000				1838216.250	2828.984	115	535	UNDEVELOPED	102	94	0.000	
BCPR	SEMI-PRIMITIVE	CAMP	PARADISE RIVER CAMP	BCPR		7.711	0.000				133502.563	2453.245	129	105	UNDEVELOPED	102	103	0.000	
BCPC	SEMI-PRIMITIVE	CAMP	PYRAMID CREEK CAMP	BCPC		7.730	0.000				3424906.000	52811.418	144	216	UNDEVELOPED	102	94	0.000	
BCRC	SEMI-PRIMITIVE	CAMP	REDSTONE CAMP	BCRC		7.589	0.000				1168371.525	37497.418	226	302	UNDETERMINED	8	8	0.000	
BCSP	SEMI-PRIMITIVE	CAMP	S PUYALLUP CAMP	BCSP		7.726	0.000				397508.969	6486.279	299	284	ROADED MULTIUSE	103	94	0.000	
BCSW	TRANSITION	CAMP	SHADOW LAKE CAMP	BCSW		7.743	0.000				3384995.250	54182.893	306	536	ROADED MOTORIZED	94	94	0.000	
BCSR	SEMI-PRIMITIVE	CAMP	SHRINER PEAK CAMP	BCSR		7.737	0.000				52682.219	2795.401	309	293	ROADED MULTIUSE	103	94	0.000	
BCSL	TRANSITION	CAMP	SNOW LAKE CAMP	BCSL		7.732	0.000				372680.750	6223.327	316	540	ROADED MULTIUSE	103	0	0.000	
BCSC	TRANSITION	CAMP	SUMMERLAND CAMP	BCSC		7.724	0.000				1319281.875	21447.507	325	24	UNDEVELOPED	102	94	0.000	
BCTC	SEMI-PRIMITIVE	CAMP	TAMANOS CREEK CAMP	BCTC		7.727	0.000				1939921.875	29791.566	355	537	ROADED MULTIUSE	103	0	0.000	
BCTL	SEMI-PRIMITIVE	CAMP	THREE LAKES CAMP	BCTL		7.695	0.000				714302.563	13162.794	366	538	ROADED MOTORIZED	94	94	0.000	
BCUC	SEMI-PRIMITIVE	CAMP	UPPER CRYSTAL CAMP	BCUC		7.738	0.000				31197.516	627.571	272	489	WINTER	9	21	0.000	
BCUP	SEMI-PRIMITIVE	CAMP	UPPER PALISADES CAMP	BCUP		7.717	0.000				2803297.500	15135.487	231	203	WINTER	9	163	62.040	
BCYC	SEMI-PRIMITIVE	CAMP	YELLOWSTONE CLIFF CAMP	BCYC		7.739	7.687				182531.172	3000.845	233	206	WINTER	9	163	3.113	
BCCM	SENSITIVE RESOURCE/REC	FRONT COUNTRY	CAMP MUIR	BCCM		1.601	0.000				23923.297	749.938	234	207	WINTER	9	179	0.000	
BCCS	SENSITIVE RESOURCE/REC	FRONT COUNTRY	CAMP SCHURMAN	BCCS		8.526	0.000				2329972.500	18150.881	236	208	WINTER	9	163	208.397	
NOWILD	SENSITIVE RESOURCE/REC	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		246.632	22.289				4745018.500	13670.639	206	179	WINTER	9	163	453.228	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		6.722	0.000				2740457.750	10247.063	297	263	WINTER	9	179	240.412	
NOWILD	MIX OF ZONES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		1.793	0.000				1860592.500	7729.330	65	65	WINTER	9	163	84.739	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		1.371	0.000				6884.750	1348.973	125	100	WINTER	9	179	0.000	
NOWILD	ADMINISTRATIVE	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		59.399	6.240				720396.625	4262.264	127	103	WINTER	9	179	11.789	
NOWILD	MIX OF ZONES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		6.790	0.000				31264.141	627.828	149	432	WINTER	9	31	0.000	
NOWILD	UNDETERMINED	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		54.364	0.000				23615230.000	32357.930	244	215	WINTER	9	163	1665.195	
NOWILD	SENSITIVE RESOURCE/REC	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		16.855	0.000				249627.063	3257.983	266	245	WINTER	9	163	11.340	
NOWILD	SENSITIVE RESOURCE/REC	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		984.196	131.719				31239.313	627.621	270	485	WINTER	9	21	0.000	
NOWILD	SENSITIVE RESOURCE/REC	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		197.056	16.270				1940586.750	10114.158	62	54	WINTER	9	163	311.157	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		15.840	0.000				1490413.750	9921.672	91	68	WINTER	9	163	83.402	
NOWILD	ADMINISTRATIVE	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		0.623	0.000				8214284.000	26128.090	4	3	WINTER	9	163	740.624	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		8.785	0.000				31222.781	627.660	369	523	WINTER	9	31	0.000	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		1.353	0.000				823531.125	5077.938	109	88	WINTER	9	179	82.282	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		4.991	0.668				368436.656	3772.874	103	82	WINTER	9	179	0.000	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		14.960	0.000				212182.594	2479.887	112	91	WINTER	9	179	7.338	
NOWILD	UNDETERMINED	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		57.476	0.668				1725180.625	6417.502	116	93	WINTER	9	179	5.116	
NOWILD	SENSITIVE RESOURCE/REC	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		51.089	1.560				2317301.750	15238.728	220	193	WINTER	9	163	208.838	
NOWILD	SENSITIVE RESOURCE/REC	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		178.098	46.345				1694026.500	12122.197	328	306	WINTER	9	163	84.071	
NOWILD	UNDETERMINED	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		13.240	0.000				9478163.000	24102.572	339	318	WINTER	9	163	581.362	
NOWILD	UNDETERMINED	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		111.251	0.000				26757.750	369.856	362	335	WINTER	9	163	0.000	
NOWILD	MIX OF ZONES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		204.274	0.000				13733931.000	34537.480	260	240	WINTER	9	163	1279.248	
NOWILD	VISITOR FACILITIES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		59.115	4.903				31187.531	627.193	202	455	WINTER	9	31	0.000	
NOWILD	ADMINISTRATIVE	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD		0.984													

Unit	Zone Class	Type	Unit Name	Primary Trailhead	OLDZONE	ACRES	Adjusted Unusable	Hide Usable Acres	AREA	PERIMETER	WORK_	WORK_ID	WINTER	WINTER_SYM	SUMMER_SYM	UNUSABLE_A
NOWILD	MIX OF ZONES	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD	186.783	0.000			4635580.500	17441.543	126	101	WINTER	9	163	94.744
NOWILD	ADMINISTRATIVE	FRONT COUNTRY	FRONT COUNTRY ZONE	NOWILD	13.889	0.000			468639.281	3989.689	163	128	WINTER	9	163	65.836
XTCR	SENSITIVE RESOURCE/REC	FRONT COUNTRY	TATTOOSH CREEK	XNIS	13.586	0.000			6768674.000	26080.553	168	134	WINTER	9	163	490.415
ACOG	PRISTINE	GLACIER	CARBON GLACIER	ACAR	2927.756	331.198			1566246.975	8673.345	181	160	WINTER	9	163	62.499
ACOG	PRISTINE	GLACIER	COWLITZ GLACIER	ACOW	1749.835	329.391			17329706.000	27833.797	285	271	WINTER	9	163	1265.304
ADIS	HIGH USE CLIMBING	GLACIER	DISAPPOINTMENT CLEAVER	ADIS	75.235	10.029			3872596.250	10706.032	180	148	WINTER	9	163	310.472
AEMG	PRISTINE	GLACIER	EMMONS GLACIER	AEMG	2458.827	167.591			31200.094	627.163	189	450	WINTER	9	21	0.000
AEMR	MODERATE USE CLIMBING	GLACIER	EMMONS ROUTE	AEMR	586.756	0.000			54859.781	1421.229	321	301	SENSITIVE RESOURCE/REC	98	98	0.000
AFRG	PRISTINE	GLACIER	FRYINGPAN GLACIER	ALIT	1434.624	137.063			56130.141	1560.055	330	308	WINTER	9	163	11.605
AFRG	PRISTINE	GLACIER	FRYINGPAN GLACIER	ALIT	191.212	3.341			5639192.500	19798.252	333	310	WINTER	9	163	410.574
AING	HIGH USE CLIMBING	GLACIER	INGRAHAM FLATS	AING	536.604	175.600			68030.219	2044.356	365	338	WINTER	9	163	0.000
AMOG	PRISTINE	GLACIER	MOWICH GLACIER	ACAR	1966.782	270.119			9511804.000	23236.494	340	317	WINTER	9	179	1338.769
AMUI	HIGH USE CLIMBING	GLACIER	MUIR SNOWFIELD	AMUI	285.673	30.307			5003477.000	21019.709	345	322	WINTER	9	179	568.899
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	ANIS	820.250	293.303			1053806.375	6374.234	361	334	WINTER	9	163	70.049
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	ANIS	46.682	23.391			31073.484	626.729	352	515	WINTER	9	21	0.000
ANIS	PRISTINE	GLACIER	NISQUALLY GLACIER	ANIS	163.973	8.245			11800962.000	20344.307	12	10	WINTER	9	163	720.830
APTG	PRISTINE	GLACIER	PUYALLUP/IAHOMA GLACIERS	ACOL	3/31.009	724.995			9246390.000	38705.484	216	366	WINTER	9	179	1030.343
ASTK	PRISTINE	GLACIER	S TAHOMAKAUTZ GLACIER	AKAU	694.248	62.172			19357.359	1378.018	8	368	WINTER	9	21	0.000
ASTK	PRISTINE	GLACIER	S TAHOMAKAUTZ GLACIER	AKAU	45.205	3.120			11282.313	794.091	17	15	WINTER	9	21	0.000
ASTK	PRISTINE	GLACIER	S TAHOMAKAUTZ GLACIER	AKAU	577.027	208.839			10131.281	717.466	20	17	WINTER	9	21	0.000
ASUM	HIGH USE CLIMBING	GLACIER	SUMMIT	ASUM	813.069	84.912			302091.656	19674.225	21	18	WINTER	9	21	0.000
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	AKAU	24.123	0.000			55246.016	4432.112	23	20	WINTER	9	21	0.000
AWLG	PRISTINE	GLACIER	WINSLOW GLACIER	AKAU	266.266	50.164			307036.938	21106.551	30	28	WINTER	9	21	0.000
AWIN	PRISTINE	GLACIER	WINTHROP GLACIER	AKAU	34.707	2.452			166070.189	10700.055	32	30	WINTER	9	21	0.000
AWIN	PRISTINE	GLACIER	WINTHROP GLACIER	AWIN	2004.862	96.497			294507.313	18408.244	33	372	WINTER	9	21	0.000
XBUT	RESEARCH NATURAL AREA	RNA	BUTTER CREEK RNA	XBUT	2549.044	1204.450			16770889.000	31431.557	35	376	WINTER	9	21	0.000
ROAD	UNDETERMINED	ROAD	ROAD ZONE	ROAD	80.178	0.000			232705.188	15290.525	51	45	WINTER	9	31	0.000
ROAD	UNDETERMINED	ROAD	ROAD ZONE	ROAD	37.179	0.000			1968.688	190.485	52	383	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	526.398	0.000			29229.969	1981.612	54	387	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	98.867	0.000			56052.984	3646.727	57	49	WINTER	9	21	0.000
ROAD	ROADED MULTIUSE	ROAD	ROAD ZONE	ROAD	10.351	0.000			5898.828	462.765	63	545	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	21.901	0.000			18859.422	1302.113	67	392	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	469.358	0.000			15689.063	1093.270	69	548	WINTER	9	21	0.000
ROAD	ROADED MULTIUSE	ROAD	ROAD ZONE	ROAD	33.062	0.000			17455.750	1217.959	70	393	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	648.191	0.000			134860.694	8867.997	74	46	WINTER	9	21	0.000
ROAD	UNDETERMINED	ROAD	ROAD ZONE	ROAD	289.352	0.000			13150.500	928.461	80	561	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	98.445	0.000			29232.172	2006.929	82	56	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	838.307	0.000			114693.375	7459.707	87	70	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	13.047	0.000			91185.859	6044.627	93	407	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	92.266	0.000			182417.031	12621.355	95	72	WINTER	9	21	0.222
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	326.725	0.000			128232.563	8425.709	97	408	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	480.429	0.000			248575.172	14778.335	98	409	WINTER	9	21	0.000
ROAD	ROADED MOTORIZED	ROAD	ROAD ZONE	ROAD	175.900	0.000			105812.703	6563.208	104	84	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4.794	0.000			143079.250	9279.475	105	74	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	2.794	0.000			12355.859	875.081	110	89	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	2.509	0.000			100363.078	6667.187	111	90	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	74.814	0.000			62399.906	4050.808	114	47	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	16.901	0.668			26261.938	1855.166	117	410	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	83.469	0.000			13334.766	927.550	120	96	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	41.128	0.000			126732.547	8434.526	121	97	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	72.936	0.000			24040.594	1657.227	124	530	WINTER	9	6	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4153.376	0.000			57526.359	3811.450	135	111	WINTER	9	31	0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	57.630	0.000			4500.234	367.715	142	420	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	0.485	0.000			87190.453	5356.854	143	114	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.239	0.000			20167.781	1386.486	145	426	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	13.882	0.000			234907.469	14952.133	150	75	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	1.461	0.000			23.203	27.432	152	119	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4.671	0.000			110194.578	6862.311	154	531	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.885	0.000			37525.750	2533.311	155	436	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4.323	0.000			140548.031	9298.745	162	127	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	33.399	0.000			29487.656	1394.289	165	130	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.257	0.000			141128.516	9133.633	170	136	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.239	0.000			189794.734	12760.304	172	139	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	28.404	0.000			48300.516	3232.950	176	133	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	22.578	0.000			128536.375	8484.987	184	447	WINTER	9	21	0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	47.653	0.222			8876.766	641.293	187	159	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	31.757	0.000			89529.188	5858.171	192	453	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	61.561	0.000			29183.938	1957.285	195	167	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	26.205	0.000			66416.469	4409.318	198	170	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	35.434	0.000			17043.891	1191.517	199	171	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.080	0.000			233042.000	14872.579	203	459	WINTER	9	21	2.689
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	24.855	0.000			193329.000	12689.024	205	177	WINTER	9	21	0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	15.454	0.000			25168.125	1702.162	209	182	WINTER	9	31	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	6.504	0.000			73467.234	4932.771	215	462	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.302	0.000			128292.500	8497.136	225	188	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	31.386	0.000			78339.709	4791.151	235	467	WINTER	9	21	0.000
TRAIL	HIGH USE TRAIL	TRAIL	TRAIL ZONE	TRAIL	53.954	0.000			4324.828	344.606	239	472	WINTER	9	21	0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	14.247	0.000			106275.750	6842.679	241	473	WINTER	9	21	0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	1.115	0.000			276939.938	18255.898	242	175	WINTER	9	21	0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	21.593	0.000			2968.125	214.015	246	220	WINTER	9	21	0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4.995	0.000			30011.641	2032.772	249	222	WINTER	9	21	0.000

Unit	Zone Class	Type	Unit Name	Primary Trailhead OLDZONE ACRES	Adjusted Unusable Hide Usable Acres	AREA	PERIMETER WORK	WORK_ID WINTER	WINTER_SYM SUMMER_SYM UNUSABLE_A	
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	58.176	0.000	4546.141	364.642	251 224 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	0.006	0.000	163782.031	10723.884	252 213 WINTER	9 21 22.464
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	27.290	0.000	346200.344	22569.691	259 186 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	9.293	0.000	110651.438	7359.105	263 243 WINTER	9 21 0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	34.807	0.000	606858.750	39395.254	264 275 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.303	0.000	13999.625	921.927	267 484 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	34.951	0.000	121.281	102.006	271 253 WINTER	9 21 0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	49.480	0.000	155097.266	10011.861	273 247 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	11.962	0.000	65451.938	3976.070	275 492 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	31.833	0.000	16679.813	1169.052	286 272 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	2.198	0.000	33881.031	2289.019	289 493 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	22.172	0.000	194367.813	12281.999	290 277 WINTER	9 21 0.888
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.228	0.000	67450.563	4351.852	295 282 WINTER	9 31 0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	16.448	0.000	74360.750	4801.120	296 278 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4.221	0.000	2953.766	250.571	301 498 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	57.714	2.675	183041.719	12013.139	304 289 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	47.879	0.000	70651.688	4874.391	310 294 WINTER	9 21 0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	6.233	0.000	46344.219	3029.739	318 299 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	18.194	0.000	74572.016	4889.893	319 505 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	31.772	0.000	113012.109	7401.729	323 509 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	19.401	0.000	77723.344	5122.090	329 307 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	1.071	0.000	31095.344	2105.188	334 513 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	26.320	0.000	12585.453	737.968	335 312 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	68.585	0.000	115843.172	7680.386	336 313 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	0.735	0.000	15024.594	1043.277	341 318 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.433	0.000	259944.156	16985.752	346 323 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	1.126	0.000	9497.000	685.909	348 325 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	40.561	22.512	4674.359	309.026	349 514 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	85.738	0.000	51222.641	3332.458	353 328 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	27.403	0.000	35612.234	2404.975	354 329 WINTER	9 31 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	150.291	0.000	63259.078	4217.959	356 330 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.467	0.000	190612.875	12147.682	358 331 WINTER	9 31 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	0.030	0.000	89247.391	5898.012	360 522 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	38.410	0.000	32942.906	2249.228	364 337 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	16.209	0.000	30069.422	1963.377	368 340 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	4.131	0.000	8284.484	592.250	372 529 WINTER	9 31 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	8.391	0.000	146143.281	9249.971	374 343 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	48.136	0.890	49089.688	3269.760	379 352 WINTER	9 21 0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	16.704	0.000	2722619.000	11386.444	34 31 WINTER	9 163 158.571
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	18.418	0.000	5639391.000	17283.822	22 19 WINTER	9 163 610.504
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	0.732	0.000	31244.781	627.818	156 437 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	45.331	0.000	1126440.250	7256.518	128 104 WINTER	9 163 3.781
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	17.497	0.000	6264899.000	15565.427	288 274 WINTER	9 163 380.971
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	11.477	0.000	20618274.000	31337.184	102 81 WINTER	9 163 1663.575
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	18.468	0.000	3081000.500	15434.289	294 281 WINTER	9 163 381.188
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	27.988	0.000	31158.655	627.015	53 384 WINTER	9 21 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	19.248	0.000	925645.750	4549.367	214 187 WINTER	9 163 223.301
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.701	0.000	575833.938	3843.833	153 121 WINTER	9 163 8.008
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.117	0.000	9459364.000	15573.731	243 214 WINTER	9 163 853.395
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	28.639	0.000	152022.625	2184.587	132 108 WINTER	9 179 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	3.721	0.000	451113.500	13757.848	139 113 WINTER	9 179 527.789
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	64.376	0.000	1046549.750	8000.680	283 264 WINTER	9 179 67.609
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	2.352	0.000	1285190.000	5575.688	73 59 WINTER	9 163 15.569
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	1.158	0.000	8795749.000	17634.387	37 34 WINTER	9 163 681.699
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	12.885	0.000	5691.844	404.284	85 548 WINTER	9 163 0.000
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	8.820	0.000	1164757.000	9235.448	107 86 WINTER	9 163 2.444
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	15.666	0.000	6098422.000	23341.553	50 44 WINTER	9 163 293.130
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	47.206	0.000	6758864.000	17344.393	281 261 WINTER	9 163 695.451
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	22.192	0.000	97407.516	2018.799	254 226 WINTER	9 163 0.000
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	8.158	0.000	1075153.000	5489.957	256 232 WINTER	9 163 50.048
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	7.447	0.000	140142.484	1678.059	269 249 WINTER	9 163 2.447
TRAIL	TRANSITION	TRAIL	TRAIL ZONE	TRAIL	2.052	0.000	8095416.500	20427.816	108 87 WINTER	9 163 96.293
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	36.199	0.000	31250.125	627.891	46 377 WINTER	9 21 7.671
TRAIL	SEMI-PRIMITIVE	TRAIL	TRAIL ZONE	TRAIL	12.157	0.000	135.313	58.447	337 314 WINTER	9 163 0.000

FRONT COUNTRY TRAIL CAPACITY

This section documents the analysis of the capacity of trails in activity areas outside the wilderness boundaries. It provides a description of the pedestrian level of service standards that were applied to determine the capacity of the trails. It also shows the characteristics of segments of the trails. The following page explains the content of each column in the spreadsheet that use used to calculate the capacity of the trails.

Maximum Day-Use - Non-wilderness (Front Country)

The following columns appear in the table used to calculate the capacity of non-wilderness trails:

- *Name.* The name of the trail. Most trails have several segments, all with the same name.
- *Avg. Width.* The average width of the walking surface of the trail.
- *Trail Area.* The activity area where the trail is located.
- *Management Unit.* The zone classification of the trail (all are non-wilderness).
- *Length.* Shows the length in miles of each segment of the trail from the GIS database. A total length is also shown. The total length was provided by the Mount Rainier Park staff. For unknown reasons, the sum of the trail segment lengths is generally much shorter than the actual trail length. The actual length provided by the park staff was used in the calculation of trail capacity.
- *LOS A Capacity at Any One Time.* Shows the number of people that can occupy the trail at one time while maintaining LOS A for pedestrians. LOS A requires 130 square feet per person. The number of people allowed at one time is, therefore, Avg. Width times Length divided by 130 square feet per person.
- *Daily Use.* Shows the estimated daily use of the trail. Estimated by Mount Rainier National Park staff.

Maximum Day-Use - Front Country Trails

Pedestrian LOS Definitions (Highway Capacity Manual)

LOS A

Pedestrian Space \geq 130 sq ft / pedestrian

"At walkway LOS A, pedestrians basically move in desired paths without altering their movements in response to other pedestrians. Walking speeds are freely selected, and conflicts between pedestrians are unlikely."

LOS B

Pedestrian Space \geq 40 sq ft / pedestrian

"At LOS B, sufficient area is provided to allow pedestrians to freely select walking speeds, to bypass other pedestrians, and to avoid crossing conflicts with others. At this level, pedestrians begin to be aware of other pedestrians, and to respond to their presence in the selection of walking path."

Square footage of each trail segment was calculated using width information supplied by the Park. Where width was reported as a range, the mid point of the range was used for each segment. Using the above standards for LOS, the following estimates have been calculated for each Front Country trail

NAME	AVG WIDTH	TRAIL AREA	MANAGEMENT UNIT	LENGTH (Miles)	LOS A CAPACITY AT ANY ONE TIME	DAILY USE
ALTA VISTA	5	Paradise	NONWILDERNESS	0.005	1.0	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.062	12.6	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.081	16.4	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.031	6.3	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.010	2.0	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.037	7.5	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.007	1.4	
ALTA VISTA	5	Paradise	NONWILDERNESS	0.041	8.3	
ALTA VISTA - TOTAL	5	Paradise	NONWILDERNESS	1.100	223.4	100 t
AVALANCHE LILLY	8	Paradise	NONWILDERNESS	0.007	2.3	
AVALANCHE LILLY	8	Paradise	NONWILDERNESS	0.003	1.0	
AVALANCHE LILLY	8	Paradise	NONWILDERNESS	0.002	0.6	
AVALANCHE LILLY	8	Paradise	NONWILDERNESS	0.001	0.3	
AVALANCHE LILLY - TOTAL	8	Paradise	NONWILDERNESS	0.300	97.5	100 t
BURROUGHS LOOP	4	Sunrise	NONWILDERNESS	0.094	15.3	
BURROUGHS LOOP	4	Sunrise	NONWILDERNESS	0.122	19.8	
BURROUGHS LOOP - TOTAL (Non-Wilderness)	4	Sunrise	NONWILDERNESS	0.750	121.8	80 t
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.070	17.1	
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.077	18.8	
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.266	64.8	
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.244	59.5	
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.117	28.5	
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.401	97.7	
DEADHORSE CREEK	6	Paradise	NONWILDERNESS	0.025	6.1	
DEADHORSE CREEK - TOTAL	6	Paradise	NONWILDERNESS	1.200	292.4	100 t
EASTSIDE TRAIL	4	Ohanapecosh	NONWILDERNESS	1.697	275.7	
EASTSIDE TRAIL	4	Ohanapecosh	NONWILDERNESS	0.644	104.6	
EASTSIDE TRAIL - TOTAL (Non-Wilderness)	4	Ohanapecosh	NONWILDERNESS	2.341	380.3	15 t
FOURTH CROSSING	3	Paradise	NONWILDERNESS	0.300	36.6	75 t
GLACIER VISTA	5	Paradise	NONWILDERNESS	0.200	40.6	150 t
GOLDEN GATE	5	Paradise	NONWILDERNESS	1.000	203.1	150 t
GROVE OF THE PATRIARCHS	6	Ohanapecosh	NONWILDERNESS	0.137	33.4	
GROVE OF THE PATRIARCHS	6	Ohanapecosh	NONWILDERNESS	0.163	39.7	
GROVE OF THE PATRIARCHS - TOTAL	6	Ohanapecosh	NONWILDERNESS	0.300	73.1	40 t
GUIDE HOUSE	8	Paradise	NONWILDERNESS	0.001	0.3	
GUIDE HOUSE	8	Paradise	NONWILDERNESS	0.012	3.9	
GUIDE HOUSE	8	Paradise	VISITOR FACILITY	0.003	1.0	
GUIDE HOUSE - TOTAL	8	Paradise	NONWILDERNESS	0.016	5.2	100 t
HIGH SKYLINE	5	Paradise	NONWILDERNESS	0.117	23.8	
HIGH SKYLINE	5	Paradise	NONWILDERNESS	0.165	33.5	

MORACAPY2-10.XLS

NAME	AVG WIDTH	TRAIL AREA	MANAGEMENT UNIT	LENGTH (Miles)	LOS A CAPACITY AT ANY ONE TIME	DAILY USE
HIGH SKYLINE	5	Paradise	NONWILDERNESS	0.050	10.2	
HIGH SKYLINE - TOTAL	5	Paradise	NONWILDERNESS	0.800	162.5	100 t
HOT SPRINGS	6	Ohanapecosh	VISITOR FACILITY	0.300	73.1	50 t
KAUTZ CREEK (Non-Wilderness)	3	Kautz	NONWILDERNESS	0.027	3.3	60 t
KAUTZ CREEK OVERLOOK	6	Kautz	NONWILDERNESS	0.100	24.4	100 t
LAUGHINGWATER CREEK (Non-wilderness)	5	Ohanapecosh	NONWILDERNESS	0.099	20.1	5 t
LOWER LAKES (Non-Wilderness)	3	Paradise	NONWILDERNESS	1.100	134.0	25 t
MORaine	2	Paradise	NONWILDERNESS	0.500	40.6	25 t
MOWICH ACCESS	6	Mowich	NONWILDERNESS	0.023	5.6	t
NACHES LOOP (Non-Wilderness)	4	Tipsoo Lake	NONWILDERNESS	0.400	65.0	30 t
NARADA FALLS	5	Paradise	NONWILDERNESS	0.800	162.5	100 t
NISQUALLY VISTA	6	Paradise	NONWILDERNESS	0.645	157.2	
NISQUALLY VISTA	6	Paradise	NONWILDERNESS	0.255	62.1	
NISQUALLY VISTA - TOTAL		Paradise	NONWILDERNESS	0.900	219.3	100 t
PEBBLE CREEK	3	Paradise	NONWILDERNESS	0.600	73.1	150 t
PINNACLE PEAK (Non-Wilderness)	6	Paradise	NONWILDERNESS	0.202	49.2	50 t
RAINFOREST LOOP	5	Carbon River	NONWILDERNESS	0.001	0.2	
RAINFOREST LOOP	5	Carbon River	NONWILDERNESS	0.022	4.5	
RAINFOREST LOOP	5	Carbon River	NONWILDERNESS	0.027	5.5	
RAINFOREST LOOP - TOTAL		Carbon River	NONWILDERNESS	0.050	10.2	40 t
S.E. BOUNDARY TRAIL (Non-Wilderness)	2	Ohanapecosh	ADMINISTRATIVE	0.142	11.5	2 t
SILVER FALLS LOOP	6	Ohanapecosh	NONWILDERNESS	0.295	71.9	
SILVER FALLS LOOP	6	Ohanapecosh	NONWILDERNESS	0.990	241.3	
SILVER FALLS LOOP	6	Ohanapecosh	NONWILDERNESS	1.262	307.5	
SILVER FALLS LOOP	6	Ohanapecosh	NONWILDERNESS	0.153	37.3	
SILVER FALLS LOOP - TOTAL		Ohanapecosh	NONWILDERNESS	2.700	658.0	50 t
SKYLINE	6	Paradise	NONWILDERNESS	0.037	9.0	
SKYLINE	6	Paradise	NONWILDERNESS	0.113	27.5	
SKYLINE	6	Paradise	NONWILDERNESS	0.014	3.4	
SKYLINE	6	Paradise	NONWILDERNESS	0.119	29.0	
SKYLINE	6	Paradise	NONWILDERNESS	0.031	7.6	
SKYLINE	6	Paradise	NONWILDERNESS	0.082	20.0	
SKYLINE	6	Paradise	NONWILDERNESS	0.054	13.2	
SKYLINE	6	Paradise	NONWILDERNESS	0.047	11.5	
SKYLINE	6	Paradise	NONWILDERNESS	0.009	2.2	
SKYLINE	6	Paradise	NONWILDERNESS	0.024	5.8	
SKYLINE	6	Paradise	NONWILDERNESS	0.011	2.7	
SKYLINE	6	Paradise	NONWILDERNESS	0.025	6.1	
SKYLINE	6	Paradise	NONWILDERNESS	0.017	4.1	
SKYLINE	6	Paradise	NONWILDERNESS	0.067	16.3	
SKYLINE	6	Paradise	NONWILDERNESS	0.006	1.5	
SKYLINE	6	Paradise	NONWILDERNESS	0.060	14.6	
SKYLINE	6	Paradise	NONWILDERNESS	0.040	9.7	
SKYLINE	6	Paradise	NONWILDERNESS	0.001	0.2	
SKYLINE	6	Paradise	NONWILDERNESS	0.050	12.2	
SKYLINE	6	Paradise	NONWILDERNESS	0.025	6.1	
SKYLINE	6	Paradise	NONWILDERNESS	0.004	1.0	
SKYLINE	6	Paradise	NONWILDERNESS	0.001	0.2	
SKYLINE	6	Paradise	NONWILDERNESS	0.014	3.4	
SKYLINE	6	Paradise	NONWILDERNESS	0.105	25.6	
SKYLINE	6	Paradise	NONWILDERNESS	0.076	18.5	
SKYLINE - TOTAL	6	Paradise	NONWILDERNESS	6.000	1,462.2	400 t
SOURDOUGH RIDGE	6	Sunrise	NONWILDERNESS	0.285	69.5	
SOURDOUGH RIDGE	6	Sunrise	NONWILDERNESS	0.762	185.7	
SOURDOUGH RIDGE	6	Sunrise	NONWILDERNESS	0.163	39.7	
SOURDOUGH RIDGE - TOTAL	6	Sunrise	NONWILDERNESS	4.000	487.4	100 t
TIPSOO LAKE	5	White River	NONWILDERNESS	0.224	45.5	
TIPSOO LAKE	5	White River	NONWILDERNESS	0.029	5.9	

MORACAPY2-10.XLS

NAME	AVG WIDTH	TRAIL AREA	MANAGEMENT UNIT	LENGTH (Miles)	LOS A CAPACITY AT ANY ONE TIME	DAILY USE
TIPSOO LAKE	5	White River	NONWILDERNESS	0.029	5.9	
TIPSOO LAKE	5	White River	NONWILDERNESS	0.012	2.4	
TIPSOO LAKE	5	White River	NONWILDERNESS	0.047	9.5	
TIPSOO LAKE	5	White River	NONWILDERNESS	0.023	4.7	
TIPSOO LAKE	5	White River	NONWILDERNESS	0.041	8.3	
TIPSOO LAKE - TOTAL	5	White River	NONWILDERNESS	1.000	203.1	50 t
TRAIL OF THE SHADOWS	7	Longmire	NONWILDERNESS	0.009	2.6	
TRAIL OF THE SHADOWS	7	Longmire	NONWILDERNESS	0.148	42.1	
TRAIL OF THE SHADOWS	7	Longmire	NONWILDERNESS	0.086	24.5	
TRAIL OF THE SHADOWS - TOTAL	7	Longmire	NONWILDERNESS	0.700	69.1	70 t
WATERFALL	8	Paradise	NONWILDERNESS	0.000	-	
WATERFALL	8	Paradise	NONWILDERNESS	0.021	6.8	
WATERFALL	8	Paradise	NONWILDERNESS	0.021	6.8	
WATERFALL	8	Paradise	NONWILDERNESS	0.006	1.9	
WATERFALL - TOTAL	8	Paradise	NONWILDERNESS	0.400	130.0	100 t
WONDERLAND - SUNRISE TO WHITE RIVER	3	Sunrise	NONWILDERNESS	0.852	103.8	
WONDERLAND - SUNRISE TO WHITE RIVER	3	Sunrise	NONWILDERNESS	0.141	17.2	
WONDERLAND - SUNRISE TO WHITE RIVER	3	Sunrise	NONWILDERNESS	0.118	14.4	
WONDERLAND - SUNRISE TO WHITE RIVER	3	Sunrise	NONWILDERNESS	0.054	6.6	
WONDERLAND - TOTAL (Non-Wilderness)	3	Sunrise	NONWILDERNESS	1.165	142.0	90 t
				TOTAL	5,680.0	2,607

NOTES:

1. Daily use for miscellaneous Paradise Lower Meadow Trails (Guide House, Avalance Lily, Waterfall Trail, Nisqually Vista, Alta Vista, and Deadhorse Creek) is an estimate of 600 people per day (averaged to 10 per trail) as provided by the park.

MOUNT RAINIER NATIONAL PARK
~~BACKCOUNTRY~~ CENB3\$2A798

NAME	LIMITS	PERMITS ISSUED	AVAILABLE
		--Parties People--	-Night of 03/29-
CARBON GLACIER ALPIN	3 Parties		3 Parties
CAMP HAZARD ALPINE	Unlimited		OK
COLONADES ALPINE	2 Parties		2 Parties
CRESCENT LAKE	2 Parties		2 Parties
THUMB ROCK ALPINE	Unlimited		OK
DISAPPOINTMENT CLEAV	Unlimited		OK
EMMONS/WINTHROP	24 People		24 People
EMMONS FLAT	24 People		24 People
GOAT ISLAND MOUTAIN	2 Parties		2 Parties
INGRAHAM FLATS	36 People		36 People
INTER GLACIER	2 Parties		2 Parties
KAUTZ ALPINE	Unlimited		OK
LITTLE TAHOMA	2 Parties		2 Parties
MOTHER MOUNTAIN	2 Parties		2 Parties
MOUNT RUTH	2 Parties		2 Parties
MUIR SNOW FIELD	36 People		36 People
NISQUALLY ALPINE	Unlimited		OK
OLD DESOLATE	2 Parties		2 Parties
PTARMIGAN RIDGE	3 Parties		3 Parties
SARVENT ALPINE	1 Parties		1 Parties
SUMMIT	Unlimited		OK
TOKALOO SPIRE	3 Parties		3 Parties
BERKELEY PARK	4 Ind 0 Group		4 Ind 0 Group
CAMP CURTIS	2 Ind 0 Group		2 Ind 0 Group
CAMP MUIR	110 People	1 2	108 People
CARBON RIVER	4 Ind 0 Group		4 Ind 0 Group
CAMP SCHURMAN	48 People		48 People
CATARACT VALLEY	6 Ind 1 Group		6 Ind 1 Group
COUGAR ROCK WALK-IN	Closed		Closed
DICK CREEK	2 Ind 0 Group		2 Ind 0 Group
DEVIL'S DREAM	7 Ind 1 Group		7 Ind 1 Group
DICK'S LAKE	1 Ind 0 Group		1 Ind 0 Group
DEER CREEK	2 Ind 0 Group		2 Ind 0 Group
EAGLE'S ROOST	7 Ind 0 Group		7 Ind 0 Group
FIRE CREEK	3 Ind 1 Group		3 Ind 1 Group
FOREST LAKE	1 Ind 0 Group		1 Ind 0 Group
GLACIER BASIN	5 Ind 1 Group		5 Ind 1 Group
GRANITE CREEK	2 Ind 1 Group		2 Ind 1 Group
GOLDEN LAKES	5 Ind 1 Group		5 Ind 1 Group
INDIAN BAR	3 Ind 1 Group		3 Ind 1 Group
IPSUT CAMPGROUND	10 Ind 2 Group		10 Ind 2 Group
IPSUT CREEK WALK-IN	Closed		Closed
BC CABIN LAKE JAMES	0 Ind 1 Group		0 Ind 1 Group
KLAPATCHE PARK	4 Ind 0 Group		4 Ind 0 Group
LOWER CRYSTAL LAKE	2 Ind 0 Group		2 Ind 0 Group
LAKE ELEANOR	3 Ind 1 Group		3 Ind 1 Group
LAKE GEORGE	5 Ind 1 Group		5 Ind 1 Group
MAPLE CREEK	4 Ind 1 Group		4 Ind 1 Group
MYSTIC CAMP	7 Ind 2 Group		7 Ind 2 Group
MOWICH RIVER	4 Ind 1 Group		4 Ind 1 Group
MOWICH LAKE CAMPGRND	Unlimited		OK
NICKEL CREEK	3 Ind 1 Group		3 Ind 1 Group
NORTH PUYALLUP CAMP	3 Ind 1 Group		3 Ind 1 Group
OLALLIE CREEK	2 Ind 1 Group		2 Ind 1 Group

MOUNT RAINIER NATIONAL PARK
~~BACKCOUNTRY~~ CNMB3\$22798

NAME	LIMITS	PERMITS ISSUED --Parties People--	AVAILABLE -Night of 03/29-
OHANAPECOSH WALK-IN	Closed		Closed
PARADISE WALK-IN	3 Ind 0 Group		3 Ind 0 Group
PYRAMID CREEK	2 Ind 0 Group		2 Ind 0 Group
PARADISE RIVER	3 Ind 1 Group		3 Ind 1 Group
REDSTONE CAMP	2 Ind 0 Group		2 Ind 0 Group
SUMMERLAND CAMP	5 Ind 1 Group		5 Ind 1 Group
SNOW LAKE	2 Ind 0 Group		2 Ind 0 Group
SOUTH PUYALLUP RIVER	4 Ind 1 Group		4 Ind 1 Group
SHRINER'S PEAK	2 Ind 0 Group		2 Ind 0 Group
SUNRISE	8 Ind 2 Group		8 Ind 2 Group
TAMANOS CREEK	4 Ind 1 Group		4 Ind 1 Group
THREE LAKES	2 Ind 1 Group		2 Ind 1 Group
UPPER CRYSTAL LAKE	2 Ind 0 Group		2 Ind 0 Group
UPPER PALISADES LAKE	2 Ind 0 Group		2 Ind 0 Group
WHITE RIVER WALK-IN	3 Ind 1 Group		3 Ind 1 Group
YELLOWSTONE CLIFFS	2 Ind 0 Group		2 Ind 0 Group
ICE CAVES BASIN	Unlimited		OK
MAZAMA RIDGE WINTER	Unlimited		OK
PARADISE AREA WINTER	Unlimited		OK
REFLECT. LAKE WINTER	Unlimited		OK
WINTER VAN TRUMP PRK	2 Parties		2 Parties
ALKI CREST	2 Parties		2 Parties
BURNT PARK	2 Parties		2 Parties
CARBON RIVER FOREST	Unlimited		OK
CHENUIS LAKES	2 Parties		2 Parties
COWLITZ PARK	3 Parties		3 Parties
CRYSTAL MOUNTAIN	2 Parties		2 Parties
LOWER CURTIS RIDGE	2 Parties		2 Parties
DEADWOOD LAKES	2 Parties		2 Parties
ELYSIAN FIELDS	2 Parties		2 Parties
FRYINGPAN	1 Parties		1 Parties
GOVE PEAK	2 Parties		2 Parties
GRAND PARK	3 Parties		3 Parties
GREEN PARK	2 Parties		2 Parties
GOVERNORS RIDGE	1 Parties		1 Parties
HUCKLEBERRY PARK	2 Parties		2 Parties
MINERAL MOUNTAIN	3 Parties		3 Parties
MIST PARK	2 Parties		2 Parties
NISQUALLY FOREST	Unlimited		OK
NORTHERN LAKES	3 Parties		3 Parties
OHANAPECOSH PARK	3 Parties		3 Parties
PACIFIC CREST FOREST	Unlimited		OK
LOWER PALISADES	2 Parties		2 Parties
PYRAMID PEAK	5 Parties		5 Parties
SEATTLE PARK	2 Parties		2 Parties
SKYSCRAPER MOUNTAIN	2 Parties		2 Parties
SLIDE MOUNTAIN	3 Ind 0 Group		3 Ind 0 Group
SOUTHERN SPRAY PARK	2 Parties		2 Parties
STEVEN'S RIDGE	3 Parties		3 Parties
SUNSET PARK	3 Parties		3 Parties
TAMANOS MOUNTAIN	1 Parties		1 Parties
TATOOSH RANGE	5 Parties		5 Parties
TYEE PEAK	2 Parties		2 Parties

ERNAL PARK

2 Parties

2 Parties

MOUNT RAINIER NATIONAL PARK
BACKCOUNTRY CAMPSTATES

NAME	LIMITS	PERMITS ISSUED	AVAILABLE
		--Parties People--	-Night of 03/29-
WHITE RIVER PARK	3 Parties		3 Parties

MOUNT RAINIER NATIONAL PARK
BACKCOUNTRY PERMITS ISSUED
1997: ALL YEAR
DISTRICT: ALL

CAMP CODE	CAMP NAME	DIST	TOTAL PARTIES	TOTAL PEOPLE	CAMPER NIGHTS	AVG SIZE	AVG STAY	NIGHTS FILLED	NIGHTS OVR BOOK
ACAR	CARBON GLACIER ALPIN	C	36	107	149	2.97	1.39	1	1
ACCH	CAMP HAZARD ALPINE	P	181	695	1120	3.84	1.61	0	0
ACOL	COLONADES ALPINE	L	8	26	47	3.25	1.81	2	0
ACRE	CRESCENT LAKE	C	4	7	7	1.75	1.00	0	0
ACTH	THUMB ROCK ALPINE	W	66	175	199	2.65	1.14	0	0
ADIS	DISAPPOINTMENT CLEAV	P	4	12	12	3.00	1.00	0	0
AE/W	EMMONS/WINTHROP	W	31	184	279	5.94	1.52	2	0
AEMM	EMMONS FLAT	W	71	303	500	4.27	1.65	6	0
AGOA	GOAT ISLAND MOUTAIN	W	6	13	17	2.17	1.31	0	0
AING	INGRAHAM FLATS	P	186	809	1135	4.35	1.40	6	0
AINT	INTER GLACIER	W	28	128	148	4.57	1.16	10	0
AKAU	KAUTZ ALPINE	P	116	402	608	3.47	1.51	0	0
ALIT	LITTLE TAHOMA	W	25	107	124	4.28	1.16	6	0
AMOT	MOTHER MOUNTAIN	C	13	26	32	2.00	1.23	3	0
AMOU	MOUNT RUTH	W	5	10	12	2.00	1.20	2	0
AMUI	MUIR SNOW FIELD	P	176	644	737	3.66	1.14	3	0
ANIS	NISQUALLY ALPINE	P	71	280	320	3.94	1.14	0	0
AOLD	OLD DESOLATE	C	1	2	2	2.00	1.00	0	0
APTA	PTARMIGAN RIDGE	C	29	74	94	2.55	1.27	5	0
ASAR	SARVENT ALPINE	W	9	24	33	2.67	1.38	11	0
ASUM	SUMMIT	P	45	159	249	3.53	1.57	0	0
ATOK	TOKALOO SPIRE	L	41	157	405	3.83	2.58	4	1
BCBP	BERKELEY PARK	W	135	324	400	2.40	1.23	25	1
BCCC	CAMP CURTIS	W	22	75	95	3.41	1.27	7	0
BCCM	CAMP MUIR	P	1300	4255	6848	3.27	1.61	10	6
BCCR	CARBON RIVER	C	167	352	380	2.11	1.08	16	0
BCCS	CAMP SCHURMAN	W	316	1134	2181	3.59	1.92	6	6
BCCV	CATARACT VALLEY	C	121	320	337	2.64	1.05	1	0
BCCW	COUGAR ROCK WALK-IN	L	4	14	19	3.50	1.36	0	0
BCOC	DICK CREEK	C	72	158	175	2.19	1.11	22	0
BCOD	DEVIL'S DREAM	L	305	731	816	2.40	1.12	10	0
BCOL	DICK'S LAKE	W	24	49	51	2.04	1.04	24	0
BCOR	DEER CREEK	O	65	135	164	2.08	1.21	23	0
BCER	EAGLE'S ROOST	C	158	388	486	2.46	1.25	9	0
BCFC	FIRE CREEK	W	42	97	109	2.31	1.12	1	0
BCFL	FOREST LAKE	W	14	32	35	2.29	1.09	14	0
BCGB	GLACIER BASIN	W	328	1021	1266	3.11	1.24	30	1
BCGC	GRANITE CREEK	W	108	272	281	2.52	1.03	19	0
BCGL	GOLDEN LAKES	L	202	477	546	2.36	1.14	8	1
BCIB	INDIAN BAR	O	188	445	484	2.37	1.09	34	7
BCIC	IPSUT CAMPGROUND	C	280	813	1072	2.90	1.32	2	1
BCIW	IPSUT CREEK WALK-IN	C	0	0	0	.00	.00	0	0
BCJC	BC CABIN LAKE JAMES	W	7	53	66	7.57	1.25	7	1
BCKP	KLAPATCHE PARK	L	154	330	358	2.14	1.08	17	0
BCLC	LOWER CRYSTAL LAKE	W	47	121	148	2.57	1.22	15	1
BCLF	LAKE ELEANOR	W	32	94	124	2.94	1.32	0	0
BCLG	LAKE GEORGE	L	135	336	436	2.49	1.30	4	0
BCMC	MAPLE CREEK	P	170	403	441	2.37	1.09	9	0

MOUNT RAINIER NATIONAL PARK
BACKCOUNTRY PERMITS ISSUED
1997: ALL YEAR
DISTRICT: ALL

CAMP CODE	CAMP NAME		TOTAL DIST PARTIES	TOTAL PEOPLE	CAMPER NIGHTS	AVG SIZE	AVG STAY	NIGHTS FILLED	NIGH OVE BOOK
BCML	MYSTIC CAMP	C	287	716	792	2.49	1.11	7	0
BCMR	MOWICH RIVER	C	113	341	405	3.02	1.19	1	0
BCMW	MOWICH LAKE CAMPGRND	C	350	975	1168	2.79	1.20	0	0
BCNC	NICKEL CREEK	O	176	402	425	2.28	1.06	15	2
BCNP	NORTH PUYALLUP CAMP	L	91	262	265	2.88	1.01	3	0
BCOC	OLALLIE CREEK	O	60	142	152	2.37	1.07	6	0
BCOW	OHANAPECOSH WALK-IN	O	1	2	2	2.00	1.00	0	0
BCPA	PARADISE WALK-IN	P	24	38	66	1.58	1.74	0	0
BCPC	PYRAMID CREEK	L	118	243	279	2.06	1.15	43	2
BCPR	PARADISE RIVER	P	178	384	441	2.16	1.15	20	0
BCRC	REDSTONE CAMP	W	46	94	111	2.04	1.18	11	1
BCSC	SUMMERLAND CAMP	W	281	678	791	2.41	1.17	22	7
BCSL	SNOW LAKE	P	143	298	332	2.08	1.11	61	0
BCSP	SOUTH PUYALLUP RIVER	L	165	398	434	2.41	1.09	7	0
BCSR	SHRINER'S PEAK	O	37	73	87	1.97	1.19	9	3
BCSW	SUNRISE	W	273	662	919	2.42	1.39	11	0
BCTC	TAMANOS CREEK	W	62	157	171	2.53	1.09	4	0
BCTL	THREE LAKES	O	21	54	62	2.57	1.15	0	0
BCUC	UPPER CRYSTAL LAKE	W	70	165	205	2.36	1.24	31	1
BCUP	UPPER PALISADES LAKE	W	53	125	170	2.36	1.36	21	1
BCWW	WHITE RIVER WALK-IN	W	46	133	163	2.89	1.23	0	0
BCYC	YELLOWSTONE CLIFFS	C	38	84	103	2.21	1.23	12	1
WICE	ICE CAVES BASIN	P	3	7	16	2.33	2.29	0	0
WMAZ	MAZAMA RIDGE WINTER	P	54	185	206	3.43	1.11	0	0
WPAR	PARADISE AREA WINTER	P	313	2011	2211	6.42	1.10	0	0
WREF	REFLECT. LAKE WINTER	P	87	270	339	3.10	1.26	0	0
WVAN	WINTER VAN TRUMP PRK	L	6	12	18	2.00	1.50	0	0
XALK	ALKI CREST	C	2	4	4	2.00	1.00	0	0
XBUR	BURNT PARK	W	1	4	4	4.00	1.00	0	0
XCAR	CARBON RIVER FOREST	C	8	13	20	1.63	1.54	0	0
XCHE	CHENUIS LAKES	C	1	5	15	5.00	3.00	0	0
XCOW	COWLITZ PARK	O	20	42	59	2.10	1.40	0	0
XCRY	CRYSTAL MOUNTAIN	W	0	0	0	.00	.00	0	0
XCUR	LOWER CURTIS RIDGE	C	23	57	69	2.48	1.21	2	1
XDEA	DEADWOOD LAKES	W	2	3	3	1.50	1.00	0	0
XEYS	ELYSIAN FIELDS	C	5	15	37	3.00	2.47	3	0
XFRY	FRYINGPAN	W	13	30	30	2.31	1.00	12	0
XGOV	GOVE PEAK	C	0	0	0	.00	.00	0	0
XGRA	GRAND PARK	W	28	59	82	2.11	1.39	1	0
XGRE	GREEN PARK	W	17	49	79	2.88	1.61	6	0
XGVR	GOVERNORS RIDGE	O	0	0	0	.00	.00	0	0
XHUC	HUCKLEBERRY PARK	W	1	2	2	2.00	1.00	0	0
XMIN	MINERAL MOUNTAIN	C	4	9	17	2.25	1.89	0	0
XMIS	MIST PARK	C	3	9	12	3.00	1.33	0	0
XNIS	NISQUALLY FOREST	L	72	154	205	2.14	1.33	0	0
XNOR	NORTHERN LAKES	W	4	11	13	2.75	1.18	0	0
XOHA	OHANAPECOSH PARK	O	15	29	39	1.93	1.34	1	0
XPAC	PACIFIC CREST FOREST	O	13	30	36	2.31	1.20	0	0

MOUNT RAINIER NATIONAL PARK
BACKCOUNTRY PERMITS ISSUED
1997: ALL YEAR
DISTRICT: ALL

CAMP CODE	CAMP NAME		TOTAL DIST	TOTAL PARTIES	TOTAL PEOPLE	CAMPER NIGHTS	AVG SIZE	AVG STAY	NIGHTS FILLED	NIGH OVE BOOK
XPAL	LOWER PALISADES	W	3		6	6	2.00	1.00	0	0
XPYR	PYRAMID PEAK	L	39		99	137	2.54	1.38	0	0
XSEA	SEATTLE PARK	C	10		26	37	2.60	1.42	2	0
XSKY	SKYSCRAPER MOUNTAIN	W	8		20	21	2.50	1.05	1	0
XSLI	SLIDE MOUNTAIN	W	4		7	7	1.75	1.00	0	0
XSOU	SOUTHERN SPRAY PARK	C	22		56	63	2.55	1.13	4	0
XSTE	STEVEN'S RIDGE	P	5		10	13	2.00	1.30	0	0
XSUN	SUNSET PARK	L	11		22	29	2.00	1.32	0	0
XTAM	TAMANOS MOUNTAIN	W	3		6	8	2.00	1.33	3	0
XTAT	TATOOSH RANGE	P	59		121	150	2.05	1.24	0	0
XTYE	TYEE PEAK	C	3		5	5	1.67	1.00	0	0
XVER	VERNAL PARK	C	1		2	4	2.00	2.00	0	0
XWHI	WHITE RIVER PARK	W	4		5	7	1.25	1.40	0	0

TOTALS

35093

693

60

TOTAL PERMITS ISSUED: 6,055
TOTAL BACKCOUNTRY CAMPERS: 18,482
TOTAL CAMPER NIGHTS: 35,093
AVERAGE PARTY SIZE: 3.05
AVERAGE LENGTH OF STAY: 1.90

CROSSCOUNTRY ZONES

		Est. Total per day			Overnight		# in Party	Length of stay	Demand	Hide Factor	Access
		M-F	SS	Limits	Total	Range					
XALK	Alki Crest	2	4	2	24	6 - 47	2.1	1.2	L	2	THML
XBUR	Burnt Park	<2	<2	2	10	0 - 20	3	1	L	4	THSP
XCAR	Carbon River For	10	30	unl	51	14 - 150	2.2	1.2	M	5	THML THIC THPP
XCHE	Chenuis Lakes	<2	<2	2	9	0 - 20	1.2	1.2	L	2	THIC THSU
XCOW	Cowlitz Park	5	10	3	98	47 - 182	2.5	1.2	M	3	THBC THOC, THFC
XCRY	Crystal Mountain	5	10	2	28	2 - 65	2.0	1.5	M	2	THCC THCP
XCUR	Lower Curtis Ridge	5	10	2	129	72 - 169	2.2	1.2	M	2	THSU THIC
XDEA	Deadwood Lakes	2	5	2	31	9 - 58	2.5	1.2	M	4	THCP
XEYS	Elysian Fields	2	5	2	27	6 - 55	1.9	1.6	M	2	THSU THIC
XFRY	Fryingpan	10	30	1	40	20 - 67	2.0	1.2	H	2	THFC THOC THBC
XGOV	Gove Peak	<2	<2	2	8	3 - 22	3.0	1.2	L	2	THPP THML
XGRA	Grand Park	5	20	3	132	96 - 181	2.4	1.4	H	3	THSU THLE
XGRE	Green Park	2	10	2	60	37 - 93	2.4	1.6	M	2	THSP
XGVR	Governors Ridge	<2	<5	1	4	0 - 8	2.6	1	L	3	THOL THDC
XHUC	Huckleberry Park	2	5	2	14	5 - 35	1.8	1.3	L	3	THSU
XMIN	Mineral Mountain	5	10	3	78	32 - 168	2.0	1.2	M	3	THSU THIC
XMIS	Mist Park	5	10	2	27	2 - 62	2.1	1.6	M	2	THSU THIC
XNIS	Nisqually Forest	15	30	unl	105	32 - 256	2.2	1.2	M	5	THWS THKC THLO
XNOR	Northern Lakes	2	10	3	92	35 - 165	3	1.7	L	4	THWF THSU THIC
XOHA	Ohanapecosh Park	5	25	3	123	38 - 243	2.3	1.2	H	2	THFC THBC THOC
XPAC	Pacific Crest Forest	5	30	unl	178	103 - 384	2.5	1.3	M	5	ALL EASTSIDE
XPAL	Lower Palisades	2	5	2	47	9 - 90	2.2	1.2	L	3	THSP
XPYR	Pyramid Peak	10	20	5	200	102 - 293	2.2	1.2	H	3	THKC THLO
XSEA	Seattle Park	5	10	2	76	31 - 122	2.4	1.2	M	2	THSU THIC
XSKY	Skyscraper Mtn	5	30	2	64	39 - 88	2.4	1.1	H	2	THSU THIC
XSLI	Slide Mountain	<2	<5	2	21	3 - 38	2.1	1.1	L	3	THSP
XSOU	Southern Spray Pk	30	50	2	232	160 - 327	2.8	1.6	H	3	THSU THIC THML
XSTE	Steven's Ridge	2	5	3	26	8 - 66	1.6	1.5	L	3	THPA THBC
XSUN	Sunset Park	2	4	3	60	18 - 103	2.3	2.0	L	3	THLO THML
XTAM	Tamanos Mtn	2	10	1	11	7 - 18	1.8	1.6	M	3	THOL THDC
XTAT	Tatoosh Range	10	20	5	120	78 - 182	2.2	1.4	H	3	THRL THLO THBC
XTYE	Tyee Peak	2	5	2	22	10 - 51	2.5	1.3	L	1	THIC THWF THSU
XVER	Vernal Park	2	5	2	9	2 - 34	2.1	1.3	L	2	THSU THIC
XWHI	White River Park	5	20	3	42	10 - 80	2.0	1.3	M	3	THSP

MF = Monday - Friday SS = Saturdays and Sundays

Hide factor range: 1 = No or very little vegetation cover

Overnight yearly totals are averages for 1981 - 1992.

Total users per day are estimates.

5 = Lots of vegetation, lower forest

Number in party and length of stay based on 1993 and 1995 statistics.

Access: Standard trailhead codes.

Wilderness Visitor Use

ATTACHMENT 2

Climbing Zones

1. Estimated total visitor numbers (overnight and day use) in the mgt. unit or zone on the route per day.

<u>Alpine Zones:</u>	<u>Per Day</u>	<u>Overnight</u>	<u>Average Stay</u>	<u>Party Size</u>
ACAR - Carbon Glacier:	1	3	2	3
ACCH - Camp Hazard:	2	425	1	3
ACOL - Colonades	.5	4	2	2
ACRE - Crestent Lake	.5	20	1	3
ACTH - Thumb Rock:	.45	65	1	3
ADIS - Dis. Cleaver:	14	26	1	3
AE/W - Emmons/Winthrop:	3.5	120	2	3
AEMM - Emmons Flats:	1.7	650	2	3
AGOA - Goat Is. Mountain	.5	17	2	2
AING - Ingraham Flats:	1.5	520	1	3
AINT - Inter Glacier:	4.3	60	1	3
AKAU - Kautz:	2	340	2	3
ALIT - Little Tahoma:	.35	95	1	3
AMOT - Mother Mountain	.3	28	1	2
AMOU - Ruth Mountain:	.2	82	1	2
AMUI - Muir Snowfield:	27	300	1	3
ANIS - Nisqually:	1.2	460	1	6
AOLD - Old Desolate	.2	26	1	2
APTA - Ptarmigan Ridge	1.5	175	2	3
ASAR - Sarvent	.3	40	1	2
ASUM - Alpine Summit:	13	60	1	3
ATOK - Tokaloo Spire	1	125	1	2

2. Guestimate as to whether we are out of standard, near standard, or below standard given the zone that has been applied to the mgt. unit or zone. Unknown

3. Whether the mgt. unit is high demand or low demand and why.

AMUI - Muir Snowfield
 ADIS - Disappointment Cleaver
 AE/W - Emmons/Winthrop
 AINT - Inter Glacier
 ASUM - Alpine Summit

These units listed above are in high demand because they are the main access points to the upper mountain for climbers. Also the Muir snowfield and the Inter Glacier are high day-use areas popular with hikers and skiers during the summer months.

The low demand units are more remote and are either difficult to assess because of steep trailless routes or take several days of travel over rough terrain to access.

4. % of day users that are mountaineering vs just regular sight-seers; of the mountaineers, give the % that are guided vs independent.

The number of day users over the summer months, during the peak climbing season is approximately 3,500.

90 % are mountaineers that visit and use the alpine zones vs sight-seers. Approximately 50% use the guide service for a one day snow school and the rest are large organized groups that either do a day climb of peaks within the park or practice crevasse rescue on the Nisqually Glacier (ANIS).

5. Number of visitors who stay overnight in the mgt. unit or at a camp and average length of stay and party size. (see number 1 above)

6. The most common access routes/points into and out of the mgt. unit or trail/route.

The most common access to the alpine zones is through the trail zones at Paradise and the White River area, including the Campground. The majority of visitors to the two most popular routes use the Muir Snowfield (AMUI) and the Inter Glacier (AINT). The next most popular is Carbon Glacier (ACAR) and Ruth Mountain (AMOU). Approximately 55% of the 9000 + climbers travel through AMUI, AING, ADIS, and if successful to ASUM.

7. Average total time visitors spend in the mgt. unit or on the trail/route.
(see number 1 above)

8. Vegetation/topography (how well can people hide from each other?)

The alpine zones of Mt. Rainier National Park are made up of glaciers and perennial snowfields, rocky ridges, rock and ice cliffs and rock scree (loose rock) slopes. The vegetation found in the area are small lichens, mosses, and a few species of flowers and heathers. These plants are found on exposed rock ridges in the alpine zones.

The ability of a person or group to hide from one another is very limited due to the large open glaciers and snowfields.

Depending on the route or zone climbers can hide from one another easily, however on some routes climbers are climbing above or below other climbers with no way to get away or hide from each other.

Say 70%
Paradise
30%
White River

MOUNT RAINIER NATIONAL PARK
SUMMARY OF CLIMBING STATISTICS
1997: ALL YEAR

ROUTE	PRIVATE CLIMBS		GUIDED TWO DAY		GUIDED SEMINARS		TOTAL	
	?	?	?	?	?	?	?	?
	↓	↓	↓	↓	↓	↓	↓	↓
CR CURTIS RIDGE	0	0	0	0	0	0	0	0
	0	0%	0	0%	0	0%	0	0
DC DISSAPOINTMENT CLEAVER	805	2822	16	157	14	135	835	311
	1565	55%	149	94%	126	93%	1840	59
EW EMMONS-WINTHROP GLACIER	380	1460	5	40	1	9	386	150
	703	48%	13	32%	9	100%	725	48
FF FUHRER'S FINGER	47	139	0	0	0	0	47	13
	58	41%	0	0%	0	0%	58	41
GL GIRALTAR LEDGE	82	229	0	0	2	25	84	25
	56	24%	0	0%	0	0%	56	21
ID INGRAHAM DIRECT	316	1051	0	0	3	31	319	108
	435	41%	0	0%	17	54%	452	41
KC KAUTZ CLEAVER	3	8	0	0	0	0	3	
	0	0%	0	0%	0	0%	0	0
KG KAUTZ GLACIER	168	629	0	0	3	33	171	65
	362	57%	0	0%	20	60%	382	57
KH KAUTZ HEADWALL	0	0	0	0	0	0	0	
	0	0%	0	0%	0	0%	0	0
LR LIBERTY RIDGE	60	158	0	0	0	0	60	15
	66	41%	0	0%	0	0%	66	41
LT LITTLE TAHOMA	26	104	0	0	0	0	26	10
	59	56%	0	0%	0	0%	59	56
LW LIBERTY WALL	0	0	0	0	0	0	0	
	0	0%	0	0%	0	0%	0	0
MF MOWICH FACE	1	4	0	0	0	0	1	
	4	100%	0	0%	0	0%	4	100%
NC NISQUALLY/GIB CHUTE	1	1	0	0	0	0	1	
	1	100%	0	0%	0	0%	1	100%
NI NISQUALLY ICEFALL	4	11	0	0	0	0	4	11
	0	0%	0	0%	0	0%	0	0%
NL NISQUALLY CLEAVER	0	0	0	0	0	0	0	
	0	0%	0	0%	0	0%	0	0%

Wilderness Visitor Use Data--Trail Zones: (West Side)--Rick Kirschner--Updated 5/1/98

- Notes: a. Use data is my best "guesstimate" for summer use on a particular trail, averaged over an entire summer month; it includes day use as well as overnight use.
- b. For trail type and length, see descriptions supplied by Carl Fabiani See GMPTRAIL.DOC.
- c. W.T. = Wonderland Trail
- d. WS = West Side Road
- e. ALL numbers and percentages are approximate "guesstimates" even if they appear to be stated as facts
- f. listed parking capacities are the maximum number of spaces available at a certain location; however, not all will be available to hikers, such as at Longmire, Paradise, etc.

1. Eagle Peak Trail:

1. See GMPTRAIL.DOC
2. 12 people per day on trail
3. Below standard
4. Low Demand--trail has significant elevation gain (3000 vertical feet) and is too tough for many hikers; trail in trees most of the way with no good views; however there are excellent views from the end of the trail, just tough to get to
5. Average time on trail = approx. 5 hours--2 1/2 hours hiking up, 1 hour at end of trail, 1 1/2 hours hiking down
6. Est. 60% of hikers get to the top; 40% turn around sooner due to fatigue, etc.
7. Only 1 way in and 1 way out
8. N/A
9. Only 1 trailhead; approx. 20 parking spots at Longmire Community Building, with more parking available in Longmire.

2. Twin Firs Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Below standard
4. Low Demand--short trail has no views or other scenic attractions, except for old growth forest
5. Average time on trail = approx. 1/2 hour
6. Virtually all who start this trail do the entire loop since it is less than 1/2 mile long and gentle terrain
7. Virtually all who hike the loop hike in a counter clockwise direction due to the trailhead signing.
8. Single loop trail with no other trails nearby
9. Only 1 trailhead--Twin Firs; approx. 12 parking spots at trailhead.

3. Rampart Ridge Trail:

1. See GMPTRAIL.DOC
2. 35 people per day on trail
3. near standard
4. High Demand--this is the only loop trail out of Longmire; has a good viewpoint of Longmire and 1 excellent view of the mountain
5. Average time on trail = approx. 4 hours (this includes a 1/4 hour stop at the Longmire viewpoint and a 1/4 hour stop at the mountain viewpoint)
6. Est. 70% of hikers do the entire loop and 30% turn around somewhere on the trail; probably 10% go only to Longmire viewpoint and turn around there
7. Loop trail when done in conjunction with W.T.; travel is 50/50 clockwise and counter clockwise
8. This loop trail is primarily done as a loop in itself in conjunction with the W. T.--not usually done with any other connecting trails
9. 2 trailheads--Longmire with 90 parking spaces and maternity curves trailhead with 30 spaces

4. Mirror Lakes Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail; NOTE: When WS Road was open, and Tahoma Creek Trail was undamaged, estimate about 20 people per day used this trail
3. Near standard
4. Low Demand--this spur trail off the W.T. is difficult to reach, needing to hike 6-7 miles just to reach start of trail; trail is short and leads to several pretty lakes, good meadows, and eventually turns into the Pyramid Peak Way Trail
5. Average time on trail = approx. 1 1/2 hours; 1 hour of hiking in and out, and 1/2 hour at lakes or in nearby meadows
6. Est. that 50% of hikers who use trail just go to Mirror Lakes and turn around and 50% go to the Pyramid Peak Way Trail
7. Only 1 way in and 1 way out--access off the W.T.
8. Access to this trail is off the W.T. at Indian Henrys meadows; this is a side trip for W.T. hikers and a side trip or destination for day hikers
9. Access to this trail is from 3 directions--from Longmire with 90 parking spaces & Maternity Curve trailhead with 30 spaces; from Kautz Creek trailhead with 30 spaces; and from Dry Creek on the WS Road with 40 spaces

5. Kautz Creek Trail:

1. See GMPTRAIL.DOC
2. 60 people per day on trail--mostly in the first mile of trail
3. Out of standard for the lower part of trail (first mile); below standard for rest of trail
4. High Demand--high demand is primarily for the first 1 1/2 miles of trail--it is level and easy to hike; low elevation makes trail snow free much of the year; near stream; provides access to Indian Henrys meadows; after the first 1 1/2 miles of trail, trail becomes quite steep and difficult, greatly cutting down on the number of people who continue; beyond there, demand is low
5. Average time on trail = 2 hours (based on the fact that most hikers on this trail only go about 1 to 1 1/2 miles up the trail, and spend 1/2 to 1 hour at Kautz Creek); for those who go all the way to Indian Henrys, average time on trail is approx. 7 hours (4 hours up trail, 1 hour at Indian Henrys, 2 hours down trail)
6. Estimate only about 20% of hikers on this trail go all the way to Indian Henrys; est. about 60% of hikers go only to the Kautz Creek bridge; the remaining 20% either don't make it to the bridge or go beyond the bridge but not all the way to Indian Henrys. 15%
15%
7. Estimate that 65% of hikers going up this trail return by this trail; 30% return to Longmire by following the W.T.; approx. 5% return to WS Road via W.T.; from Longmire or WS Road, hikers must have a 2nd car or hitch hike back to Kautz Creek
* Not consistent with 6
8. Kautz Creek Trail joins the W.T. at Indian Henrys; 2 loops are possible; percentages shown in #7
9. 3 trailheads--Kautz Creek with 30 parking spaces; Longmire/Maternity Curve trailhead with 120 spaces; and Dry Creek on WS Road with 40 spaces

10%

6. Tahoma Creek Trail:

1. See GMPTRAIL.DOC
2. 3 people per day on trail; **NOTE:** this number would be much higher if the WS Road was open to private vehicles and if the trail were repaired from washout damage; when trail was undamaged and WS Road was open, est. 35 people per day on this trail
3. currently below standard, but use will go up dramatically if WS Road is re-opened and if trail is repaired
4. currently Low Demand; used to be High Demand since this was the shortest and easiest way into the Indian Henrys area; now, hikers must walk an additional 1 1/4 miles along the WS Road to get to trailhead, and trail washout damage has not been totally repaired
5. Average time on trail = 2 hours (1 hour going up trail and 1 hour coming down trail); since most hikers use this trail to access the W.T., virtually all hikers make it to the W.T.
6. Est. 95% of hikers get to the W.T. and then most (80%) go to Indian Henrys while a smaller number (20%) goes to Emerald Ridge
7. Most hikers go in and out the same way on this trail; some hikers go in this trail and out via the Kautz Creek Trail (10%) and some go out via the W.T. to Longmire (10%); for these hikers, they need a 2nd car or need to hitch hike back to their car
8. see # 7
 9. 3 trailheads--Dry Creek on the WS Road with 40 spaces; Kautz Creek with 30 spaces; Longmire & Maternity Curve trailhead with 120 spaces

7. Lake George/Gobblers Knob Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail; **NOTE:** When WS Road was open to public, estimate an average of 50 people per day used this trail
3. Currently below standard; when WS Road was open, this trail was out of standard
4. Currently Low Demand because hikers must hike over 3 1/2 miles along the WS Road just to get to the start of the trail; hiking along the WS Road is not too exciting; when WS Road was open, this trail was High Demand because it was a very short and easy hike to a beautiful lake, and then only another 1 1/2 miles to a fire lookout with great views
5. Average time on trail = 5 hours going all the way on the trail to the Gobblers Knob Lookout; (1/2 hour hiking to lake; 1 hour at lake; 1 hour hiking to Gobblers Knob; 1 hour at Gobblers Knob; 1 1/2 hours hiking out to trailhead)
6. Currently only about 40% of hikers get to Gobblers Knob due to the long approach on the WS Road; when WS Road was open, est. 80% of hikers went to Gobblers Knob; for those hikers who make it to the start of this trail, virtually 100% make it to Lake George due to the easy trail
7. Most hikers go in and out on this trail; however trail does connect with the Goat Lake Trail on USFS land; some hikers come into park from Goat Lake and go to Gobblers Knob and Lake George, but they usually exit the same way due to the difficulty of logistics of having to have a 2nd vehicle to do a through hike
8. Lake George/Gobblers Knob trail joins the Goat Lake trail; estimate 10% of hikers come in park from the Goat Lake trail and go to Gobblers Knob or Lake George
9. 2 trailheads--Dry Creek on the WS Road with 40 spaces and Goat Lake trailhead on USFS land with about 15 spaces **NOTE:** when WS Road was open to public, Lake George trailhead (Round Pass) had space for 100+ cars

8. Goat Lake Trail:

1. See GMPTRAIL.DOC
2. 1 person per day on trail; when WS Road was open, estimate 3 people per day on trail
3. below standard, both now and when WS Road was open
4. Low Demand now and when WS Road was open; few good views; hikers would rather go to Gobblers Knob with great views than on the Goat Lake Trail; trail is primarily used as a route to Goat Lake for fishing
5. Average time on trail = 1 hour (1/2 hour to park boundary and 1/2 hour back)

6. Most hikers on this trail are either going from the park to Goat Lake for fishing, or going from USFS land to Gobblers Knob or Lake George, so virtually 100% of hikers do the entire trail
7. Usually hikers enter and exit the same way, whether starting on USFS land or in the park; est. less than 1% do a through hike
8. see #7
9. 2 trailheads--Dry Creek on the WS Road with 40 spaces and Goat Lake Trailhead on USFS land with about 15 spaces

9. Round Pass Trail:

1. See GMPTRAIL.DOC
2. 2 people per day on trail; Note: when WS Road was open, estimate 5 people per day on trail
3. Below standard, both now and when WS Road was open
4. Low Demand, both now and when WS Road was open; this is a connecting trail between Round Pass and the South Puyallup Trail; no good views and no attractions
5. Average time on trail = 1/2 hour
6. Virtually 100% of hikers hike the whole trail, as it is a connecting trail
7. 1 way in and 1 way out, starting at either Round Pass or at South Puyallup Trail
8. Trail not often used, and usually only used as a connector trail between Round Pass and South Puyallup Trail
9. 1 trailhead at Dry Creek on WS Road with 40 spaces; **NOTE:** when WS Road was open, parking was available at Round Pass with 100+ spaces and at the South Puyallup trailhead with about 12 spaces

10. South Puyallup Trail:

1. See GMPTRAIL.DOC
2. 3 people per day on trail; NOTE: when WS road was open, estimate 15 people per day on trail
3. Currently below standard; when WS Road was open, trail was near standard
4. Currently Low Demand--hikers must hike 4 1/2 miles on the WS Road just to get to the start of the trail; when WS Road was open, this trail was Moderate Demand--access to a popular backcountry camp; easy trail; attraction point of excellent example of columnar andesite; access to beautiful meadows of Emerald Ridge
5. Average time on trail = 2 hours (1 hour hike in; 1/2 hour at river and/or columnar andesite; 1/2 hour hike out)
6. Trail ends at jct with W.T.--virtually all hikers hike the entire trail
7. Trail intersects the W.T.; most hikers go in and out on the South Puyallup Trail, but some people make a difficult loop trip around Emerald Ridge via W.T. and Tahoma Creek Trail
8. This trail intersects the W.T. and the Round Pass trail--loop trip is possible, but difficult, via W. T. , Tahoma Creek trail, hiking the WS Road, and the Round Pass Trail; less than 5% of hikers do this; another difficult loop trip is via the W.T. to Klapatche Park and down the St. Andrews Creek trail and along the WS Road; again less than 2% of hikers do this loop
9. 1 trailhead at Dry Creek on WS Road with 40 spaces; when WS Road was open, South Puyallup Trailhead had space for about 12 cars

11. St. Andrews Creek Trail:

1. See GMPTRAIL.DOC
2. 2 people per day on this trail; NOTE: When WS Road was open, estimate 30 people per day used this trail
3. Currently below standard; when WS Road was open to public, trail was out of standard
4. Currently Low Demand--hikers must hike almost 8 miles just to get to the start of the trail; When WS Road was open, this trail was High Demand due to it being a fairly short and relatively easy trail to beautiful subalpine meadows and great views
5. Average time on trail = 5 hours (1 1/2 hours up trail; 2 1/2 hours at Klapatche Park/St. Andrews Lake; 1 hour down trail)
6. Estimate that currently 90% of hikers hike the entire trail to Klapatche Park; 10% don't make it .
7. Most hikers go in and out the same way; however loop trips are possible but difficult; loop trip through Klapatche Park to South Puyallup River trail and along WS Road; second loop trip is through Klapatche Park to North Puyallup River trail and along WS Road; estimate less than 5% of hikers do these loops trip now
8. see #7
9. 1 trailhead at Dry Creek on WS Road with space for 40 cars; when WS Road was open, trailhead at St. Andrews Creek had space for about 30 cars

12. Denman Falls Trail:

1. See GMPTRAIL.DOC
2. 1 person per day on trail; NOTE: when WS Road was open, estimate 10 people per day on trail
3. Below Standard, both now and when WS Road was open
4. Currently Low Demand--hikers must hike almost 8 miles just to get to start of trail; when WS Road was open, trail was Low Demand; trail is short and easy and leads to a beautiful waterfall, but trail is not widely known, and hikers preferred to hike to Klapatche Park
5. Average time on trail = 1/2 hours, including time at falls viewpoint
6. Trail is so short, virtually all hikers do entire trail
7. Loop trail which doesn't intersect with any other trails--50/50 on clockwise and counter clockwise hiking
8. See #7
9. 1 trailhead at Dry Creek on WS Road with 40 spaces; NOTE: when WS Road was open, trailhead at St. Andrews Creek had space for about 30 cars

13. North Puyallup Trail:

1. See GMPTRAIL.DOC
2. 1 person per day on trail; NOTE: when WS Road was open, estimate 5 people per day on trail
3. Below standard, both now and when WS Road was open
4. Low Demand, both now and when WS Road was open; currently hikers must hike over 9 miles just to get to the start of this trail; trail is on old roadbed and is not exciting to hike; few good views until the end of the trail at North Puyallup Camp
5. Average time on trail = 4 hours (3 hours hiking trail in and out and 1 hour at end of trail)
6. Estimate that 95% of hikers who reach this trail hike the entire trail
7. Trail joins W.T. at North Puyallup Camp; most hikers (95%) hike in and out the same trail; a loop hike is possible by hiking W.T. to Klapatche Park and down St. Andrews Creek trail to WS Road (5%)
8. See #7
9. 1 trailhead at Dry Creek on WS Road with 40 spaces; NOTE: when WS Road was open, trailhead at Klapatche Point had space for 50+ cars

14. Paul Peak Trail:

1. See GMPTRAIL.DOC

2. 15 people per day on trail
3. Near standard
4. Moderate Demand--all forest trail with no spectacular views; leads to Mowich Rivers; and a backcountry camp; trail is low elevation, so it is a popular trail when more scenic trails are still snow covered
5. Average time on trail = 4 hours (1 1/2 hours down to river; 1/2 hour at river; 2 hours back to trailhead)
6. Estimate 80% of hikers go down trail to its junction with W.T.; 20% turn around earlier due to fatigue, etc.
7. Most hikers go in and out on the Paul Peak Trail (90%); 10% of hikers make loop around Paul Peak, using this trail and W.T. to Mowich Lake, and then hitch hike back to car; some W.T. hikers exit their W.T. trip on this trail
8. see #7
9. 2 trailheads--Paul Peak trailhead with space for 15 cars and overflow of about 30, and Mowich Lake trailhead with space for 30 cars and overflow of 100+

15. Green Lake Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Near standard
4. Moderate Demand--relatively short and easy trail to a pretty lake, but no spectacular views
5. Average time on trail = 2 hours (1 hour up trail; 1/2 hour at lake; 1/2 hour down trail)
6. Estimate 95% of hikers who start trail go all the way to the lake--short, easy trail
7. 1 way in and 1 way out
8. N/A
9. 1 trailhead at Green Lake parking area with space for 10 cars

16. Chenuis Falls Trail:

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near standard
4. Moderate Demand--short, easy trail to nice waterfall
5. Average time on trail = 1 hour (1/2 hour hiking in and out and 1/2 hour at falls)
6. Virtually 100% of hikers make it to the falls--short, easy trail
7. 1 way in and 1 way out
8. N/A
9. 1 trailhead--Chenuis Falls parking area with space for about 15 cars

17. Spray Park Trail:

1. See GMPTRAIL.DOC
2. 40 people per day on trail
3. Out of standard
4. High Demand--relatively short hike and not too difficult to some of the most spectacular subalpine meadows and views in the park; also beautiful waterfall (Spray Falls) enroute to Spray Park
5. Average time on trail = 6 hours (2 hours hiking in; 1/4 hour at Spray Falls; 2 1/2 hours at Spray Park; 1 1/4 hours hiking out)
6. Estimate 90% of hikers make it to Spray Falls; estimate 80% of hikers make it all the way to Spray Park
7. Most hikers (90%) go to and from Spray Park from Mowich Lake on this trail; 10% of hikers arrive at Spray Park from Cataract Creek; a small percentage (1%) enter Spray Park via the Knapsack Pass Way Trail and follow the Spray Park Trail back to Mowich Lake
8. see #7
9. 2 trailheads--Mowich Lake with space for 30 cars plus overflow of 100+; and Ipsut Creek

trailhead with space for about 40 cars and 30 campsites

18. Tolmie Peak Trail:

1. See GMPTRAIL.DOC
2. 50 people per day on trail
3. Out of standard
4. High Demand--relatively short and not too difficult of a hike to a beautiful subalpine lake and a fire lookout with spectacular views; people arriving at Mowich Lake who want to hike have only 2 basic choices for trails--Spray Park or Tolmie Peak--both are busy
5. Average time on trail = 5 hours (2 hours up trail; 2 hours at Eunice Lake and/or Tolmie Lookout; 1 hour hiking out)
6. Estimate 80% of hikers get to Eunice Lake; estimate 50% of hikers make it all the way to Tolmie Lookout
7. 1 way in and 1 way out; it is rare for someone to hike up the W.T. from Ipsut Creek and go to Tolmie Peak
8. N/A
9. 1 trailhead--Mowich Lake with space for 30 cars and overflow of 100+

19. Stevens Creek Trail:

1. See GMPTRAIL.DOC
2. 30 people per day on trail
3. Near standard
4. High Demand--trail leaves Box Canyon Picnic area, and many picnickers are looking for a short trail to hike; less than 1 mile to Stevens Creek and a scenic view of river
5. Average time on trail = 2 hours (1 3/4 hours hiking and 1/4 hour at viewpoint)
6. Trail is downhill and only 3/4 mile long, so 95% of hikers who start trail hike the entire trail
7. Estimate 90% of hikers go up and down this trail, but about 10% do a loop trip with the adjoining W.T. and hike back up to Box Canyon; they then follow road back to picnic area
8. See #7
9. 1 trailhead--Box Canyon Picnic area with space for 40 cars

20. Snow Lake Trail:

1. See GMPTRAIL.DOC
2. 55 people per day on trail
3. Out of standard
4. High Demand--short and relatively level trail with 2 scenic lakes and good views; a good easy family hike/beginner hike
5. Average time on trail = 3 hours (1 hour hike in; 1 hour at Snow Lake; 1 hour hike out)
6. Estimate 90% of hikers reach Snow Lake; 10% just go to Bench Lake or stop short of Snow Lake due to fatigue, etc.
7. 1 way in and 1 way out
8. N/A
9. 1 trailhead at Snow Lake trailhead with space for about 20 cars

21. Pinnacle Peak Trail:

1. See GMPTRAIL.DOC
2. 50 people per day on trail
3. Out of standard
4. High Demand--relatively short trail with great views
5. Average time on trail = 4 hours (3 hours up and down trail and 1 hour on top enjoying views)
6. Estimate 90% of hikers make it to the end of the trail; 10% turn around early due to fatigue, etc.
7. 1 way in and 1 way out

8. N/A

9. 1 trailhead--Reflection Lakes parking area with space for about 50 cars

22. Narada Falls Trail:

1. See GMPTRAIL.DOC
2. 100 people per day on trail
3. Out of standard
4. High Demand--mostly on part of trail from Narada Falls to falls viewpoint; also this is a densely "populated" part of the park, close to Paradise and big parking lot at Narada Falls; many people are looking for a short hike, and this trail fits the bill
5. Average time on trail = 1/2 hour
6. Virtually 100% of hikers go to the falls viewpoint; other hikers start at Paradise and hike down to Narada Falls on this trail, which is also short and most hikers do that whole section
7. Access to the Narada Falls Trail are from the W.T. and the Lakes Trail; most hikers are just using the section of this trail from Narada Falls to the falls viewpoint; others hike from Narada Falls to Paradise or visa versa
8. Estimate 90% of hikers go just to the falls viewpoint; 10% of hikers go from Paradise to Narada Falls or visa versa
9. 2 trailheads--Narada Falls parking lot with space for about 50 cars, and Paradise with space for 400 cars plus overflow

Front
Country

23. Lakes Trail(Mazama Ridge on GIS map):

1. See GMPTRAIL.DOC
2. 25 people per day on trail
3. Near standard
4. Moderate Demand--nice loop trail from Paradise with great views and beautiful subalpine meadows
5. Average time on trail = 5 hours, which includes stops along the trail at scenic points (Faraway Rock, Reflection Lakes, etc.)
6. Estimate that 80% of hikers do the whole Lakes Trail loop; only about 20% stop short and return by the same route, or leave the trail at a road and find a way back to car
7. Usually hiked clockwise
8. Trail overlaps part of the Skyline Trail in the Paradise meadows and part of the W.T. at Reflection Lakes; various loop trips with these trails are possible
9. 3 main trailheads--Paradise with space for 400 cars plus overflow; 4th Crossing parking area with space for about 60 cars; and Reflection Lakes parking area with 50 spaces

Front
Country

24. Paradise Glacier Trail:

1. See GMPTRAIL.DOC
2. 20 people per day on trail
3. Near standard
4. Moderate Demand--used to be High Demand when Ice Caves existed, but now only Moderate Demand with Ice Caves gone; interesting landscape and great views
5. Average time on trail = 3 hours (1 hour hiking out; 1 hour at end of trail; 1 hour hiking back); this time does not include the 3 additional hours needed to hike Skyline Trail to and from the start of this trail
6. Estimate that 50% of hikers go all the way to end of trail; 50% stop short due to fatigue, etc.
7. 1 way in and 1 way out; access off the Skyline Trail
8. N/A
9. 2 main trailheads--Paradise parking lot with 400 spaces plus overflow; and 4th Crossing parking area with about 60 spaces

25. Pebble Creek Trail:

1. See GMPTRAIL.DOC
2. 150 people per day on trail
3. Out of standard
4. High Demand--principal route to Camp Muir for climbers and day hikers; one of the busiest trails in the park
5. Average time on trail = 1 hour (1/2 hour up trail and 1/2 hour down trail, with usually no stops until Pebble Creek)
6. Estimate 95% of hikers leaving the Skyline Trail onto the Pebble Creek Trail get all the way to Pebble Creek, the end of the trail; 5% turn around early due to fatigue, etc.
7. 1 way in and 1 way out; access off the Skyline Trail
8. N/A
9. 1 main trailhead--Paradise parking lot with 400 spaces, plus overflow

Front
Country

26. Comet Falls Trail:

1. See GMPTRAIL.DOC
2. 60 people per day on trail
3. Out of standard
4. High Demand--short trail and not too difficult to 1 of the most spectacular waterfalls in the park; plus relatively easy access to beautiful meadows and great views in Van Trump Park
5. Average time on trail = 3 hours (1 1/2 hours up trail; 1 hour down trail; 1/2 hour at Comet Falls)
6. Estimate that 80% of hikers go only to Comet Falls; 15% continue up to Van Trump Park; 5% go as far as Mildred Point Trail
7. Most hikers (98%) go up the Comet Falls Trail and return the same way; less than 2% of hikers start at Maternity Curve trailhead, go up W.T. and do the trail in reverse
8. See #7
9. Most (98%) park at Comet Falls trailhead (space for 20 cars currently; however, before rocks were placed in nearby pullouts, there was space for approx. 40 cars); some hikers park at Maternity Curves trailhead, with space for 30 cars

27. Mildred Point Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Below standard
4. Low Demand--getting to start of this trail involves a climb of 2000 vertical feet--few hikers are willing to go that far when similar views and meadows are available to Van Trump Park which is closer to Comet Falls
5. Average time on trail = 2 hours (1 hour up and down, and 1 hour at end of trail; in addition, hikers must hike about 4 additional hours on the Comet Falls Trail to get to and from the start of the Mildred Point Trail
6. Estimate that 90% of hikers who actually start up the Mildred Point Trail actually make it to end of trail, since trail is short
7. Estimate that 98% of hikers reach this trail from the Comet Falls Trailhead; 2% come from the Maternity Curve trailhead
8. See #7
9. 2 trailheads--Comet Falls trailhead with space for 20 cars; Maternity Curves trailhead with space for 30 cars

28. Wonderland Trail--Box Canyon to Reflection Lakes:

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near standard
4. Moderate Demand--most of trail is in canyon with no spectacular views; only 1 backcountry camp along this section of trail; more day use around Lake Louise and Reflection Lakes

5. Average time on trail = 4 hours; W.T. hikers usually do the whole section of trail; day hikers just do sections usually around Lake Louise and Reflection Lakes
6. unknown
7. Connecting trail between Box Canyon and Reflection Lakes; intersects Stevens Creek Trail at Box Canyon and intersects Lakes Trail at Reflection Lakes; no good loop hikes available
8. N/A
9. 3 trailheads--Box Canyon and Box Canyon Picnic area with 60 spaces; Lake Louise with 20 spaces; Reflection Lakes with 50 spaces

✓ 29. **Wonderland Trail--Reflection Lakes to Longmire:**

1. See GMPTRAIL.DOC
2. 120 people per day on trail
3. Out of standard
4. High Demand--this trail goes through 1 of the most densely "populated" parts of the park, with people at Longmire, Cougar Rock Campground, Paradise and Narada Falls, all looking for places to hike; lots of attractions on the trail section, including waterfalls, pretty streams and rivers, lakes, etc.; fairly easy hiking on most of this section
5. Average time on trail = 3 hours
6. Unable to determine percentages; most popular sections of this trail are between Longmire and Cougar Rock Campground, and between Cougar Rock Campground and Carter Falls
7. Trail intersects the Lakes Trail at Reflection Lakes and the Narada Falls Trail at Narada Falls; most hikers do short sections of this trail and return the same way--Cougar Rock CG to Longmire and return, and Cougar Rock CG to Carter Falls and return; those hiking from Reflection Lakes or Narada Falls usually hike downhill and arrange a ride back up to car or hitch hike back to car
8. See #7
9. 4 trailheads--Reflection Lakes with 50 spaces; Narada Falls with 50 spaces; Cougar Rock Campground with 200 sites and an additional 50 spaces; Longmire and Maternity Curves trailhead with 120 spaces

✓ 30. **Wonderland Trail--Longmire to Indian Henrys:**

1. See GMPTRAIL.DOC
2. 50 people per day on trail; NOTE: when WS Road was open, estimate 60 people per day on this trail
3. Out of standard
4. High Demand--a popular hike out of Longmire; leads to 2 popular backcountry camps and to Indian Henrys meadows, some of the most scenic meadows with great mountain views in the park; historic backcountry cabin
5. Average time on trail = 8 hours for those going all the way to Indian Henrys (4 hours up; 1 hour at Indian Henrys; 3 hours down)
6. Estimate that 40% of hikers go all the way to IH; 40% are just hiking the return leg of the Rampart Ridge Trail; 20% turn around beyond Rampart Ridge, but short of IH
7. Most hikers (80%) go in and out this same trail; W.T. hikers doing entire trail just hike through this section; loop trips are possible as described under the Kautz Creek Trail and the Tahoma Creek Trail
8. See #7
9. 2 trailheads--Longmire and Maternity Curves trailhead with 120 spaces; and Kautz Creek with 30 spaces

31. **Wonderland Trail--Indian Henrys to Emerald Ridge:**

1. See GMPTRAIL.DOC
2. 10 people per day on trail; NOTE: when WS Road was open, estimate 20 people per day on this trail
3. Near standard

4. Moderate Demand--when WS Road was open and Tahoma Creek Trail was not damaged, this was a High Demand trail; demand is now only moderate, primarily because there are few day hikers with the WS Road closed at Dry Creek; most use is from W.T. hikers
5. Average time on trail = 3 hours
6. Use is primarily W.T. hikers, so most hikers do the entire trail section; perhaps 10% of the use of this section is day hikers who hike from IH to the suspension bridge over Kautz Creek and return
7. Loop trips are difficult with the closure of the WS Road; most use is from W.T. hikers--50/50 clockwise and counterclockwise
8. See #7 and possible loop trips described under Tahoma Creek Trail and South Puyallup Trail
9. 3 trailheads--Longmire and Maternity Curve trailhead with 120 spaces; Kautz Creek with 30 spaces; and Dry Creek on WS Road with 40 spaces

50 clockwise

25 25

✓ 32. **Wonderland Trail--Emerald Ridge to Klapatche Park:**

1. See GMPTRAIL.DOC
2. 10 people per day on trail; NOTE: when WS Road was open, estimate 20 people per day on this trail
3. Near standard
4. Moderate Demand; when WS Road was open, this was a High Demand trail because Emerald Ridge was a very popular day hike, as was Klapatche Park and St. Andrews Lake; trail is now only Moderate Demand due to lack of significant numbers of day hikers; trail is mostly used by W.T. hikers
5. Average time on trail = 5 hours
6. Primarily used by W.T. hikers, so almost all hikers do the entire section of trail
7. Loop trips are difficult due to the closure of the WS Road; most use is W.T. hikers and use is 50/50 clockwise and counterclockwise
8. See possible loop trips described under St. Andrews Creek Trail and South Puyallup Trail
9. Primary users are W.T. hikers who mostly started at Longmire, Paradise, Mowich Lake, or any other primary starting point for the W.T.

West Side 5 Kautz

5 Mowich
25 West
15 Long
10 Kautz

33. **Wonderland Trail--Klapatche Park to Golden Lakes:**

1. See GMPTRAIL.DOC
- ✓ 2. 10 people per day on trail; NOTE: when WS Road was open to public, estimate 15 people per day on this trail
3. Near standard
4. Moderate Demand now and when WS Road was open; use is primarily W.T. hikers; distances long for day hikes
5. Average time on trail = 4 hours
6. Use is primarily W.T. hikers, so almost all hikers do the entire section of trail
7. Loop trips are difficult due to closure of WS Road; most use is W.T. hikers and use is 50/50 clockwise and counterclockwise
8. See possible loop trips described under St. Andrews Creek Trail and North Puyallup Trail
9. Primary users are W.T. hikers who mostly started at Longmire, Paradise, Mowich Lake, or any other primary starting point for the W.T.

5 Mowich
5 West
Side

34. **Wonderland Trail--Golden Lakes to Mowich Lake:**

- ✓ 1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near standard
4. Moderate Demand--primarily W.T. hikers with some day hikers doing the Paul Peak Loop
5. Average time on trail = 4 hours
6. Primarily W.T. hikers, so most hikers do the entire trail section; estimate that about 10% of use from Mowich River to Mowich Lake is from people hiking the Paul Peak Loop
7. Primarily W. T. hikers, so use is 50/50 clockwise and counterclockwise
8. Trail intersects Paul Peak Trail; estimate that 90% of use on this section of trail is W.T. hikers

and 10% is from Paul Peak Trail hikers

9. Primarily W.T. hikers who mostly started at Longmire, Paradise, Mowich Lake, or any other primary starting point

35. Wonderland Trail--Mowich Lake to Ipsut Creek:

1. See GMPTRAIL.DOC
2. 50 people per day on trail; most of this use is between Mowich Lake and Ipsut Pass, as people hike to Eunice Lake and Tolmie Peak Lookout; estimate 10 people per day on section of trail between Ipsut Pass and Ipsut Creek
3. Out of standard for the section from Mowich Lake to Ipsut Pass; near standard for the section from Ipsut Pass to Ipsut Creek
4. High Demand from Mowich Lake to Ipsut Pass; Moderate Demand from Ipsut Pass to Ipsut Creek; High Demand stems from scores of day hikers going to Eunice Lake and Tolmie Lookout; Moderate Demand from Ipsut Pass to Ipsut Creek due to W.T. hikers and people hiking between Mowich Lake and Ipsut Creek Campground
5. Average time on trail = 3 hours
6. Estimate that 90% of hikers on the section from Mowich Lake to Ipsut Pass are headed to Eunice Lake and Tolmie Lookout; 10% are hiking between Mowich Lake and Ipsut Creek
7. A long loop is possible on this section of trail: Mowich Lake to Ipsut Creek to Spray Park to Mowich Lake; unsure which direction is more frequently done; most people are either hiking through the area on this trail or going to and from Eunice Lake and Tolmie Lookout
8. See #7
9. Mowich Lake has about 30 spaces with overflow of 100+; Ipsut Creek has space for about 40 cars, plus 30 campsites; W.T. hikers may have started anywhere in the park

36. Wonderland Trail--Ipsut Creek to Mystic Lake:

1. See GMPTRAIL.DOC
2. 60 people per day on trail--mostly between Ipsut Creek Campground and the Carbon Glacier
3. Out of standard for Ipsut Creek to Carbon Glacier; near standard for Carbon Glacier to Mystic Lake
4. High Demand--attraction of low elevation glacier (Carbon Glacier); campers at Ipsut Campground want an easy day hike and this fits the bill; access to 4 backcountry camps; access to Mystic Lake, a very popular spot with great views
5. Average time on trail = 3 hours for going to Carbon Glacier only; 5 hours going to Mystic Lake and 3 hours returning from Mystic Lake
6. Estimate 80% of hikers go only to the Carbon Glacier; 20% go on towards Mystic Lake, with about 1/2 of them going all the way to the lake
7. Most hikers go in and out to Mystic Lake the same way, unless they are W.T. hikers going through; W.T. hikers 50/50 clockwise and counterclockwise
8. W.T. and Northern Loop Trail overlap from the Carbon Glacier to Sunrise; Northern Loop is a popular loop trip; a less popular loop is Ipsut Creek to Spray Park to Mowich Lake and back to Ipsut Creek
9. 2 trailheads--Ipsut Creek with 40 spaces and 30 campsites; Sunrise with 200+ spaces

37. Wonderland Trail--Mystic Lake to Sunrise:

1. See GMPTRAIL.DOC
2. 20 people per day on trail
3. Near standard, except when close to Sunrise where there are lots of day hikers
4. High Demand--attractions of Mystic Lake and subalpine areas of lower Curtis Ridge and numerous spectacular cross country zones
5. Average time on trail = 5 hours
6. Primarily W.T. hikers or hikers going to Mystic Lake, so about 90% of hikers do the entire section of trail
7. Most hikers go in and out to Mystic Lake the same way, unless they are W.T. hikers going through; W.T. hikers 50/50 clockwise and counterclockwise 2- 20%
8. W.T. and Northern Loop Trail overlap between Carbon Glacier and Sunrise; Northern Loop is a popular loop trip
9. 2 trailheads--Sunrise with 200+ spaces; Ipsut Creek with 40 spaces and 30 campsites

Wilderness Visitor Use Data--Trail Zones: Addendum 4/27/98 Rick Kirschner

38. Trail of the Shadows:

1. See GMPTRAIL.DOC
2. 70 people per day on trail
3. Near standard
4. High Demand--trail is short and level and is close to National Park Inn at Longmire--a good easy hike for people who want a short hike; trail features interpretive text about early days of Longmire, and an historic cabin
5. Average time on trail = approx. 30 minutes
6. Virtually all who hike the trail go all the way around, as it is such a short, easy trail
7. Most people (est. 70%) go around the trail in a counterclockwise direction; 30% go clockwise; this is primarily due to the proximity of the trailhead to the museum, Wilderness Information Center, and parking.
8. Most people just hike the loop; however, some people use this trail to access the Rampart Ridge Trail to hike that loop in a clockwise trip; estimate that about 60% of hikers just do the Trail of the Shadows and about 40% use the trail to access the Rampart Ridge Trail
9. Only trailhead is Longmire with 90 parking spaces

Front Country

39. Kautz Creek Overlook Trail:

1. See GMPTRAIL.DOC
2. 100 people per day on trail
3. Near standard
4. High Demand--very short trail; level; handicapped accessible; first good view of the mountain when driving in the Nisqually Entrance; parking area with picnic tables and restrooms, so a logical spot for a short hike such as this
5. Average time on trail = 15 minutes
6. Virtually 100% of people go to the end of the trail for the viewpoint; very short trail--no intermediate stopping points
7. Only 1 way in and 1 way out
8. N/A--some people who hike the Kautz Creek Trail do this short viewpoint trail also
9. Kautz Creek with 30 parking spaces

Front
Country

40. Box Canyon Overlook Trail:

1. See GMPTRAIL.DOC
- 2-9. N/A--this trail is a short trail from the parking lot at Box Canyon to the restrooms and then a short distance beyond to a viewpoint; it is basically a roadside viewpoint and the data requested is irrelevant

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41. Rain Forest Loop Trail (Carbon River):

1. See GMPTRAIL.DOC
2. 40 people per day on trail
3. Near standard
4. High Demand--short trail and level; good interpretive trail to learn about inland rainforests
5. Average time on trail = 30 minutes
6. About 95% of people who hike the trail hike the whole trail as it is so short and easy
7. Virtually all people hike the trail counterclockwise--this is the way the signs are arranged
8. N/A--single loop trail with no other trails nearby
9. Only 1 trailhead at Carbon River Entrance with parking for 10 cars

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✓ 42. High Lakes Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Below standard
4. Low Demand--this trail is a short cut for people doing the Lakes Trail (#23 above); it joins 2 sections of the Lakes Trail, but bypasses Reflection Lakes; most hikers stay on the Lakes Trail to do the entire loop
5. Average time on trail = 30 minutes
6. Virtually everyone who goes on this trail hikes the whole trail; this is because it is a connector trail which serves as a shortcut, so there is no advantage to hiking only part of it
7. Most hikers (est. 70%) hike this section from east to west, as most people hike the Lakes Trail Loop clockwise
8. This trail connects 2 parts of the Lakes Trail loop and serves as a shortcut--this is the primary use of this trail; however, a small percentage of hikers will start at Reflection Lakes and hike the Lakes Trail, Lakes High Trail, Lakes Trail to do a loop from Reflection Lakes. Est. that maybe 10% of hikers do this.
9. 3 main trailheads--Paradise with space for 400 cars plus overflow; Fourth Crossing parking area with space for 60 cars; Reflection Lakes parking area with space for 50 cars.

43. Mowich Access Trails:

1. This refers to a series of short trails between the Mowich Lake Road and the Wonderland Trail at Mowich Lake. The trails go from parking spaces along the road shoulder to the WT, and are just ways for people to get from their cars to the trails at Mowich Lake. In addition, this refers to very short trails from the WT to the lakeshore of Mowich Lake--places for people to sit near the water, take photographs, fish, etc. Consequently, these trails are of little importance and the data requested is irrelevant.

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44. Mystic Lake Cabin Spur Trail:

1. This trail branches off the WT at Mystic Lake and goes to the Patrol Cabin at Mystic Lake. It is only used by people who want to contact the Mystic Lake Ranger for information or to view a classic wilderness patrol cabin. Consequently, the data requested is irrelevant for this trail.

45. Misc. Paradise Lower Meadow Trails (Guide House Trail, Avalanche Lily Trail, Waterfall Trail, Nisqually Vista Trail, Alta Vista Trail, Deadhorse Creek Trail):

1. See Fabiani's data on trail specifications for each of the above listed trails. These trails constitute the lower Paradise meadow trails and are a web of intersecting trails that most people just follow to get a short hike to view the flowerfields of Paradise. These trails can all be lumped together, as they do not in themselves lead out of the lower meadow area, and use is confined on these trails to about 1 mile for the Paradise parking lots. Eventually, for anyone going beyond 1 mile, these trails merge into the Skyline Trail which is discussed below. The information presented here is my best guess on this set of trails taken as a whole.
2. 600 people per day on trails; this figure is for the entire group of trails listed above. Since all these trails interconnect and people go from 1 trail to the next, it is impossible to separate out specific usage on each trail. The figure of 600 is a wild approximation--we have no good data.
3. Out of standard
4. High Demand--easy access to some of the most spectacular flowerfields in the park; we draw many visitors to Paradise with the visitor center, Paradise Inn, etc. and many of them take at least a short hike through the meadows.
5. Average time on these trails = approx. 2 hours
6. Impossible to estimate
7. All these trails interconnect with each other, and most of them connect to the Skyline Trail, the primary trail that leads out of the lower meadow area.
8. See #6 & 7.
9. Only 1 trailhead--Paradise parking lots, with approx. 400 spaces plus overflow.

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46. Skyline Trail:

1. See GMPTRAIL.DOC
2. 400 people per day on trail; note--some of the users of the Paradise lower meadow trails described above also use the Skyline Trail and visa versa; it is impossible to separate our the use on the meadow trails since they intersect so much.
3. Out of standard
4. High Demand--fairly easy access to some of the most beautiful flowerfields in the park; a great loop trail with spectacular views of the mountain and to the south at the Tatoosh Range and outside the park; access all summer to snowfields; the Skyline Trail is the only access to the Pebble Creek Trail and beyond, so all climbers and hikers going to Camp Muir start on the Skyline Trail.
5. Average time on trail = 4-5 hours for those doing the entire loop; for those not hiking the loop but just going to Panorama Point or closer destinations, estimate 3-4 hours. Hikers spend approx. 1-1 1/2 hours between Paradise and Panorama Point, about 1/2 hour at Panorama Point, and about 1 hour returning to Paradise if going out the same way. If they are doing the loop, from Panorama Point back to Paradise, they spend about 2-3 hours returning if they follow the Skyline Trail all the way.
6. Estimate that 30-40% of the people on the trail are climbers or hikers going to Camp Muir, so they leave the Skyline Trail at the Pebble Creek Trail junction. Estimate that 20-30% of hikers go to Panorama Point and then turn around and go back to Paradise. Estimate that 10-20% of hikers do the entire loop of the Skyline Trail. Estimate that 10-20% of hikers turn around before making it to Panorama Point.
7. The loop is usually hiked in a clockwise direction. Estimate that 90-95% of hikers go this direction. Most hikers that start the loop in a counterclockwise direction don't hike the entire loop--they are just out for a shorter hike.
8. The Skyline Trail is intersected in the lower Paradise Meadows by most of the trails listed above in # 45. Most hikers start at the Skyline Trail in the upper parking lot at Paradise, but others start on various trails. Regardless, the trails all eventually merge into the Skyline Trail. As described above, 30-40% of the hikers leave the Skyline Trail to access the Muir Snowfield and Camp Muir. The rest return to Paradise by the same route, or continue the loop. Once past Panorama Point, hikers can take a shortcut trail that saves about 1 1/2 miles from the entire loop. This shortcut is the Golden Gate Trail. If they stay on the Skyline Trail, they intersect with the Lakes Trail on Mazama Ridge, but few follow that trail, as they are already doing a strenuous 6 mile loop trail on the Skyline. Some hikers leave the Skyline Trail at the Fourth Crossing Trail and hike to the Paradise Valley Road where some of them have parked, or they walk up the Valley Road to the Paradise parking lots. Estimate that 50% of those hiking east of Panorama Point take the Golden Gate Trail, and 50% do the entire Skyline loop.
9. 2 main trailheads--Paradise parking lot with 400 spaces plus overflow, and 4th Crossing parking area with about 60 spaces.

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47. Golden Gate Trail:

1. See GMPTRAIL.DOC
2. 150 people per day on trail
3. Out of Standard
4. High Demand--pretty flowerfields, great view of the mountain, shortcut back to Paradise from the popular Skyline Trail, lower part of trail is relatively easy for people looking for a short easy hike
5. Average time on trail = 1 hour; even though this shortcut trail is only 1 mile long, many people walk it at a leisurely pace to enjoy views, etc.
6. For people coming down the trail from the Skyline, virtually 100% of the people hike the entire trail, as it is a shortcut back to Paradise. For those going up the trail, estimate that about 50% hike the entire trail to access the Skyline Trail. The other 50% stop below the switchbacks where the trail gets steep and turn around there.
7. Use is probably 50-50 uphill and downhill. The downhillers are usually using the trail as a shortcut back to Paradise; the uphillers are mostly out for a shorter hike and turn around before reaching the Skyline Trail; they then return to Paradise on the same route.
8. See section on Skyline Trail above and #7 above.
9. 2 main trailheads--Paradise with space for 400 cars plus overflow, and 4th Crossing parking area with space for about 60 cars

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48. Glacier Vista Trail:

1. See GMPTRAIL.DOC
2. 150 people per day on trail
3. Out of Standard
4. High Demand--all the Paradise meadow trails are high demand--good views, etc.
5. Average time on trail = 1/2 hour; trail is very short, but there are 2 excellent viewpoints, and hikers stop to enjoy the views.
6. Virtually 100% of people who start the trail do the whole trail--it is only 1/4 mile long
7. This trail is a short spur trail that leave the Skyline Trail and then rejoins it about 1/4 mile up the trail. Probably 60-70% of hikers stay on the Skyline Trail, both up and down, but 30-40% of hikers take this short spur just for some variety or to see views along this trail. It's probably 50-50 for hikers going uphill versus downhill.
8. N/A--see #7 above.
9. Only 1 main trailhead--Paradise with space for 400 cars plus overflow.

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49. High Skyline Trail:

1. See GMPTRAIL.DOC
2. 100 people per day on trail
3. Out of Standard
4. High Demand--the Skyline Trail is a high demand trail, and the High Skyline Trail is just an alternate section of this trail used primarily to bypass a steep and sometimes dangerous section of snow. Sometimes the High Skyline Trail is the only safe way to continue east from Panorama Point and finish the loop of the Skyline Trail. Trail has great views in all directions.
5. Average time on trail = 1 hour
6. Virtually everyone who starts this trail finishes it, as it is a bypass to a steep snow slope on the Skyline Trail
7. Most hikers hike the Skyline Trail in a clockwise direction; hence most people take the High Skyline Trail going west to east.
8. This trail joins the Skyline Trail in 2 places; it also has a short connector trail to the Pebble Creek Trail. As mentioned, most people take this trail off the Skyline Trail at Panorama Point to bypass an intermittent safety hazard; however, some people join this trail from

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the Pebble Creek Trail as an alternative way back to Paradise.

9. Only 1 main trailhead--Paradise with space for 400 cars plus overflow.

50. Fourth Crossing Trail:

1. See GMPTRAIL.DOC
2. 75 people per day on trail
3. Near Standard
4. Moderate Demand--trail is High Demand on weekends and holidays when the Paradise parking lots fill up; when Paradise lots are not full, the trail is low to moderate demand.
5. Average time on trail = 1/4 hour--short trail, and most hikers just hike through
6. Virtually everyone who starts the trail goes all the way on it
7. Probably 50-50 for uphill and downhill hikers.
8. See Skyline Trail information at # 46 above.
9. Main trailhead is the 4th Crossing parking area with about 60 spaces; some users of this trail have parked at Paradise with space for 400 cars plus overflow.

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51. Moraine Trail:

1. See GMPTRAIL.DOC
2. 25 people per day on trail
3. Near Standard
4. Moderate Demand--unlike the rest of the Paradise meadow trails which are all High Demand, the Moraine Trail is Moderate Demand. The main reason is that it is out of the main stream of visitor use, the trail is largely out of sight of the rest of the Paradise meadow trails, and it therefore doesn't get as much attention as the rest of the trails. It is a great trail to get away from the huge crowds in the rest of the meadows and has great views and nice wildflowers.
5. Average time on trail = 3 hours; 1 hour down trail, 1 hours enjoying views at end of trail, and 1 hour up trail
6. Probably 80% of hikers who start this trail do the entire trail--it is less than 1 mile long.
7. One way in and 1 way out
8. N/A--this trail branches off the Dead Horse Creek Trail, with no other trails intersecting it.
9. 1 main trailhead--Paradise, with space for 400 cars plus overflow.

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52. Burroughs Mountain Trail:

(This trail goes from Frozen Lake to First Burroughs Mountain and down to Sunrise Camp)

1. See GMPTRAIL.DOC
2. 80 people per day on trail
3. Out of Standard
4. High Demand--great views, loop trail, easy access, interesting area
5. Average time on trail = 2 hours to do entire loop
6. Estimate that 60% of people on this trail do the Burroughs Mountain Loop, 30% hike to Second Burroughs Mountain, and 10% continue on to Third Burroughs Mountain
7. Loop is usually done going counter clockwise; estimate that 70% of hikers do this, and 30% hike out the trail and back the same way
8. Most people hike this trail from Sunrise, accessing it from the Sunrise Rim Trail or the Wonderland Trail
9. 1 trailhead--Sunrise with 200+ spaces

53. Crystal Lakes Trail:

1. See GMPTRAIL.DOC
2. 20 people per day on trail
3. Near Standard
4. High Demand--relatively easy access; beautiful lakes; 2 backcountry camps; nice views of the Cascade Crest

5. Average time on trail = 4 hours--2 hours up trail; 1 hour at lakes; 1 hour down trail
6. Estimate that 20% of hikers make it only to Lower Crystal Lake, 60% make it to Upper Crystal Lake, and 20% go beyond Upper Crystal to the gap at the Cascade Crest. A small percentage (<5%) go to Crystal Peak on the Crystal Peak Trail (see Way Trail # 17 below).
7. Estimate that 60% of hikers go up trail from Crystal Creek Trailhead and go out the same way; 40% of hikers come in to Upper and Lower Crystal Lakes from the Cascade Crest Trail and hike out the same way. A small percentage (<10%) do a through hike 1 way or the other.
8. See #7 above.
9. 2 trailheads--Crystal Creek with 30 spaces, and Chinook Pass with 40 spaces

54. Mount Fremont Trail:

1. See GMPTRAIL.DOC
2. 60 people per day on trail
3. Out of Standard
4. High Demand--relatively easy and short trail; access to a fire lookout with great views
5. Average time on trail = 3 hours--1 1/2 hours up trail; 1 hour at lookout; 1/2 hour down trail.
6. The trail is relatively short and not too difficult--estimate that 90% of hikers who start the trail actually get to the lookout; the rest stop short due to fatigue, etc.
7. 1 way in and 1 way out
8. Access to this trail if from the Wonderland Trail, the Sourdough Ridge Trail, and the Burroughs Mountain Trail; once the Mount Fremont Trail is reached, use is in and out the same way
9. 1 trailhead--Sunrise with 200+ parking spaces

55. Glacier Basin Trail:

1. See GMPTRAIL.DOC
2. 60 people per day on trail
3. Out of Standard
4. High Demand--primary access to 1 of the most popular climbing routes on mountain; relatively short, easy access; nice backcountry camp; historic mining area with places to explore; pretty meadow and stream
5. Average time on trail = 4 hours--2 hours up trail; 1 hour in Glacier Basin; 1 hour down trail
6. Estimate that 30% of hikers branch off the Glacier Basin Trail on to the Emmons Moraine Trail; 35% go to Glacier Basin; 30% of trail users are climbers who continue beyond Glacier Basin.
7. Primarily 1 way in and 1 way out; a small percentage (<10%) hike from Sunrise to Burroughs Mountain and then take the Burroughs Mountain/Glacier Basin Trail and out the Glacier Basin Trail.
8. See #7 above
9. 1 trailhead--White River Campground with space for 60 cars and 100 campsites.

56. Lake Eleanor Trail:

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near Standard
4. Moderate Demand--beautiful subalpine meadows with great views; pretty lake with a nice backcountry camp; somewhat long distance to get to Grand Park and Lake Eleanor cuts the demand down somewhat.
5. Average time on trail = 4 hours--1 1/2 hours in, 1/2 hour at Lake Eleanor, and 2 hours out
6. Estimate that 70% of hikers make it only to Grand Park; 20% are doing the Northern Loop Trail, and 10% make it to Lake Eleanor
7. Primarily 1 way in and 1 way out; hikers access this trail from either the Northern Loop

Trail on the southern end or from the Eleanor Creek Way Trail on the northern end;
almost 100% of hikers go out the same way they hiked in

8. See #7 above--estimate that 60% of people who use this trail come in from the north on the Eleanor Creek Trail and 40% from the south on the Northern Loop Trail
9. 2 trailheads--Sunrise with 200+ parking spaces, and the Lake Eleanor Trailhead on USFS land with 15 spaces.

57. Huckleberry Creek Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Below Standard
4. Low Demand--primarily a lower forest trail with no views and no particular points of attraction except for a pretty stream
5. Average time on trail = 3 hours--most people go to Forest lake or a ways beyond and then turn around at various points along the trail whenever they run out of time or get tired; no specific turn around points beyond Forest Lake.
6. Estimate that 40% go only to Forest Lake; 40% go beyond Forest Lake but not to the end of the trail; 20% go all the way to the end of the trail at the north park boundary. Some hikers come into the park on this trail from the north, hike a ways and then return the same way out. About 50% start hike and Sunrise and 50% at Huckleberry Creek Trailhead outside park.
7. 1 way in and 1 way out; very few hike in 1 way and to out another.
8. N/A--no other intersecting trails; access from Sunrise is from the Sourdough Ridge Trail.
9. 2 trailheads--Sunrise with 200+ spaces, and the Huckleberry Creek Trailhead on USFS land with 20 spaces.

58. Hidden Lake Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Below Standard
4. Moderate Demand--pretty lake; fishing
5. Average time on trail = 2 hours--1/2 hour in; 1 hour at lake; 1/2 hour out.
6. Virtually all hikers who start this trail make it to the lake as the trail is so short; probably 60% of hikers go only to Hidden Lake; 40% continue on and go crosscountry hiking from the lake
7. 1 way in and 1 way out
8. this trail is accessed off the Palisades Lake Trail; no other trails nearby
9. 1 trailhead--Sunrise Point with space for 40 cars

59. Naches Loop Trail:

1. See GMPTRAIL.DOC
2. 30 people per day on trail
3. Out of Standard
4. High Demand--relatively easy loop trail, short and fairly level; good views and nice meadows.
5. Average time on trail = 1-2 hours, with stops along the way for views, etc.
6. Trail is so short that virtually everyone who starts the trail finishes it.
7. Most (90%) visitors hike the loop trail clockwise
8. This trail branches off the Pacific Crest Trail; about 80% of the hikers who start the PCT at Chinook Pass, leave the PCT and follow the Naches Peak Trail back to Tipsoo Lake and Chinook Pass.
9. 2 trailheads--Chinook Pass with space for 40 cars, and Tipsoo Lake with space for 100 cars.

60. Silver Forest Trail:

(NOTE: The Emmons Vista Trail is a very short (approx. 20') spur off this trail

1. See GMPTRAIL.DOC
2. 40 people per day on trail
3. Near Standard
4. Moderate Demand--nice trail, easy access, great views, flat
5. Average time on trail = 1-2 hours, including viewpoints, lunch, etc.
6. Trail is so short and easy that virtually all who start the trail go to the end.
7. 1 way in and 1 way out
8. this trail branches off the Sunrise Rim Trail; no other trails are intersected--visitors hike in and out the same way
9. 1 trailhead--Sunrise with 200+ parking spaces

61. Owyhigh Lakes Trail:

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near Standard
4. Moderate Demand--pretty lakes; nice views of Governors Ridge; access to backcountry camp; no mountain views;
5. Average time on trail = 5 hours--if hiking all the way through on this trail; 4 hours if hiking in to Owyhigh Lakes and back out the same way.
6. Estimate that 70% of hikers hike in to Owyhigh Lakes from the White River Road and back out the same way; estimate that 30% hike all the way through to highway 123.
7. See #6 above;
8. this trail is done as either a connecting trail between the White River Road and highway 123 or visa versa, or the trail is done in and out the same way, usually from the White River Road.
9. 2 trailheads--Owyhigh Lakes trailhead with space for 12 cars and the Deer Creek trailhead, with space for 10 cars.

62. Pacific Crest Trail:

1. We have no data on the PCT--it is a national trail, maintained by the USFS, and runs in and out of the park along the east boundary. The section of the PCT discussed here is from Chinook Pass to the Laughingwater Creek Trail. North of Chinook Pass, the PCT is entirely outside the park.
2. 15 people per day on trail
3. Near Standard
4. Moderate Demand--access to pretty lakes, a trail that people can take stock and pets on; good views of the Cascade Crest; distance between entry and exit points can be long unless hikers go in and out the same way.
5. Average time on trail = 6-8 hours; about half only go to the first significant lake (Dewey Lake) and some hike all the way through
6. Estimate that 50% of hikers go just to Dewey Lakes; 5% go to Three Lakes; 45% go to other USFS areas from the PCT
7. About 50% go in and out from Chinook Pass; the other 50% hike all the way through this section of the PCT or exit the PCT on another USFS trail.
8. See #7 above.
9. Primary trailhead is Chinook Pass with space for 40 cars; secondary trailhead is Laughingwater Creek trailhead with space for 10 cars.

63. Palisades Lake Trail:

1. See GMPTRAIL.DOC
2. 20 people per day on trail
3. Near Standard
4. Moderate Demand--relatively easy access to several pretty lakes; nice meadows

5. Average time on trail = 5 hours--4 hours hiking out and back and 1 hour at 1 or more of the lakes or meadows.
6. Estimate that 30% go only to Sunrise Lake; 20% go to Clover Lake; and 50% go to Hidden Lake, Upper Palisades, or Lower Palisades Lakes
7. Usually 1 way in and 1 way out; however some more experienced hikers will hike out on the trail and then travel cross country to return to the parking lot.
8. N/A--no other trails in the area
9. 1 trailhead--Sunrise Point with space for 40 cars

64. Wonderland Trail (Sunrise to White River Campground):

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near Standard
4. Moderate Demand--close to large parking lots at Sunrise and White River Campground; however, trail is mostly in forest with few good views, and there are much more scenic hikes to take from either place.
5. Average time on trail = 2 hours--most hike 1 way on trail (Sunrise to campground or visa versa, or go to the falls below Sunrise and then return to Sunrise. A short time hiking trail.
6. Estimate that 20% of hikers go to the falls below Sunrise and then return to Sunrise; the other 80% of hikers hike the trail from Sunrise to White River CG or the other way.
7. See #6 above. Most hikers go downhill from Sunrise to WRCG versus uphill.
8. See #6 above.
9. 2 trailheads--Sunrise with 200+ spaces and White River Campground with space for 60 cars and 100 campsites.

~~80% Downhill~~
↑ 20% Downhill
70% Downhill
30% Up

65. Wonderland Trail (White River Campground to Summerland):

1. See GMPTRAIL.DOC
2. 50 people per day on trail (mostly between the Fryingpan Creek trailhead and Summerland)
3. Out of Standard
4. High Demand--relatively easy access to spectacular meadows, great views, and a nice backcountry camp which is very popular.
5. Average time on trail = 6 hours--2 1/2 hours up trail; 1-2 hours at Summerland; 1 1/2 hours down trail
6. Estimate that 50% of hikers go to Summerland and 40% go beyond to Panhandle Gap or Indian Bar. Probably 10% of hikers turn around below Summerland due to fatigue, lack of time, etc.
7. Estimate that 70% of hikers go to Summerland and back the same way and 30% continue beyond Summerland and to out to Box Canyon, or are coming from Box Canyon to Summerland.
8. See #6 & 7 above.
9. 2 primary trailheads--Fryingpan Creek with space for 35 cars, and Box Canyon with space for 40 cars. WT hikers could also be parked at any of the other main starting points for the trail--Longmire, Mowich Lake, etc.

66. Wonderland Trail (Summerland to Indian Bar):

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Near Standard
4. Moderate Demand--good views; great meadows; 2 popular backcountry camps; however distances can be long from road to road
5. Average time on trail = 3 hours--1 way hiking time plus time to stop and enjoy views at Panhandle Gap and other places.
6. Estimate that 50% of hikers on this section of trail go from Summerland to Panhandle Gap

and return the same way; 10% of hikers go from Box Canyon to Indian Bar and return the same way; 40% of hikers hike the whole trail section 1 way or the other.

7. See #6 above; trail is 1 way in and 1 way out for about 1/2 the users, and a connecting trail for the other 1/2.
8. N/A--no other trails intersecting with this section of the WT
9. 3 primary trailheads--Fryingpan Creek with space for 35 cars; Box Canyon with space for 40 cars; Ollalie Creek trailhead with space for 10 cars.

67. Wonderland Trail (Indian Bar to Box Canyon):

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Below Standard
4. Low Demand--much of the first part of the trail is in woods with no views; to get to the nice meadows and areas with views is a long hike--too long for most day hikers.
5. Average time on trail = 4 hours (this is an average of the 50% of people who go a short distance to Nickel Creek camp and the 50% who go the longer distance to Indian Bar.
6. Estimate that 50% of hikers go only to Nickel Creek backcountry camp and 50% go to Indian Bar.
7. 60% hike in and out the same way from Box Canyon to Nickel Creek or beyond; 35% hike through on this section of trail, either from Indian Bar to Box Canyon or visa versa; 5% hike part of this trail and then join the Cowlitz Divide Trail.
8. See #7 above
9. 3 trailheads--Box Canyon with space for 40 cars; Ollalie Creek with space for 10 cars; and Fryingpan Creek with space for 35 cars.

68. Eastside Trail:

1. See GMPTRAIL.DOC
2. 15 people per day on trail (much of this use is concentrated at either end of this trail, and mostly on the southern end near the Grove of the Patriarchs).
3. Near Standard
4. Low Demand for most of the trail; Moderate Demand for the north end of the trail and High Demand for the southern end of the trail--access to the Grove of the Patriarchs Trail from the southern end of this trail; much of the trail is lower forest with no good views except of streams and rivers.
5. Average time on trail = 3 hours (this is an average between the majority of people who hike a short section of this trail on either end, and the smaller number of people who hike the entire trail).
6. Estimate that 70% of the use is on the southern end of the trail near the Grove of the Patriarchs Trail, 15% of use is near the Deer Creek trailhead and backcountry camp, and 15% of use is near the upper end of the trail at Tipsoo Lake or Cayuse Pass.
7. Most use is in and out the same way, whether from the Stevens Canyon Road, Deer Creek trailhead, or Tipsoo Lake trailhead; only about 10% of the use is entering 1 place and exiting another--usually this is downhill hiking, so most people doing this go from north to south.
8. See #7 above.
9. 3 primary trailheads--Grove of the Patriarchs with space for 25 cars; Deer Creek trailhead with space for 10 cars; Eastside trailhead at Cayuse Pass with space for 20 cars.

69. Grove of the Patriarchs Trail:

1. See GMPTRAIL.DOC
2. 40 people per day on trail
3. Out of Standard
4. High Demand--a short trail off the southern end of the Eastside trail which is flat and easy to hike and leads to some of the largest cedar trees in the park; also a pretty stream.

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5. Average time on trail = 1/2 hour--the loop is <1/2 mile around.
6. Trail is so short that 100% of hikers do the whole loop.
7. People hike the loop in either direction
8. Access to this trail is off the southern end of the Eastside Trail; hikers usually go in and out this trail from the Stevens Canyon Road. About 20% of hikers on the Grove Trail will hike a short distance north of the Grove on the Eastside Trail.
9. 2 main trailheads--Grove of the Patriarchs with space for 25 cars, and Ohanapecosh with space for 20 cars and 200 campsites.

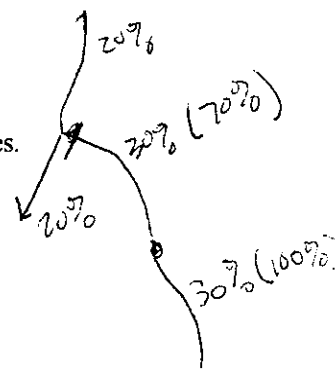
70. Laughingwater Creek Trail:

SE Boundary ?

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Below Standard
4. Low Demand--trail is all lower forest with no good views; distance is long to get to Three Lakes.
5. Average time on Trail = 6-8 hours--3-4 hours up trail; 1 hour at Three Lakes; 2-3 hours down trail.
6. Estimate that 60% of hikers go to Three Lakes; 10% go beyond Three Lakes to the Pacific Crest Trail; 30% of hikers turn around below Three Lakes due to fatigue, lack of time, etc.
7. 1 way in and 1 way out for most hikers
8. This trail connects with the Pacific Crest Trail beyond Three Lakes; however most hikers do not go that far on the trail; use from the PCT to Three Lakes is also minimal, although some hikers (<5%) do start at Chinook Pass and come out at the Laughingwater Creek Trail.
9. 3 primary trailheads--Laughingwater Creek trailhead with space for 10 cars; Ohanapecosh Campground with space for 20 cars and 200 campsites; and Chinook Pass with space for 40 cars.

71. Cowlitz Divide Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Below Standard
4. Low Demand--lower forest trail with no good views; a lot of elevation gain to get out of trees.
5. Average time on trail = 3 hours if hiking up and out a different direction; 5 hours if hiking up and back down the same way; 2 hours if just hiking down trail.
6. Estimate that 30 % of hikers just go to Ollalie Creek; another 30% stop at the Cowlitz Divide; 20% continue up the WT to Indian Bar; 20% go over the divide and hike out to Box Canyon.
7. Most hikers go up this trail from the Ollalie Creek Trailhead and come out the same way; however some hikers go over the divide to Box Canyon or connect with the WT going north and come out at the Fryingpan Creek trailhead.
8. This trail joins the WT at the top of the Cowlitz Divide--see #6 & 7 above for specifics.
9. 3 primary trailheads--Ollalie Creek with space for 10 cars; Ohanapecosh Campground with space for 20 cars and 200 campsites; Fryingpan Creek trailhead with space for 35 cars.



72. Silver Falls Trail:

1. See GMPTRAIL.DOC
2. 50 people per day on trail
3. Out of Standard
4. High Demand--short easy trail with view of nice waterfall; close to large campground.
5. Average time on trail = 1-2 hours, counting stops for views.
6. Estimate that 40% of hikers do the entire loop trail; 40% go only to Silver Falls and back out; 20% go beyond the Silver Falls Trail to the Grove of the Patriarchs Trail

Front
country

7. Most people start this trail from the Ohanapecosh Campground; next most popular starting point is the Grove of the Patriarchs trailhead; trail can also be accessed at several points along highway 123. The trail is done as a loop by about 50% of hikers, and as 1 way in and out by the other 50%.
8. See #6 & 7 above.
9. 2 primary trailheads--Ohanapecosh Campground with space for 20 cars and 200 campsites; Grove of the Patriarchs trailhead with space for 25 cars.

73. Shriner Peak Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Below Standard
4. Moderate Demand--great views from top; access to a fire lookout; long climb with lots of elevation gain;
5. Average time on trail = 5-6 hours--3 hours up; 1 hour at lookout; 2 hours down.
6. Estimate that 80% of hikers make it to the lookout; 20% stop before the lookout due to fatigue, lack of time, etc.
7. 1 way in and 1 way out
8. N/A--no other trails intersect with this trail.
9. 1 trailhead--Shriner Peak trailhead with space for 30 cars.

74. Northern Loop Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Below Standard
4. Low Demand for most of the trail; Moderate Demand on the ends of the trail near Sunrise and near Ipsut Creek Campground--beautiful multi-day hike with great views, nice meadows, etc.; day hiking on much of this trail is difficult due to the long distances from roads--consequently most of the use is overnight.
5. Average time on trail = 3-4 days; some day hiking is done on this trail, but most use is overnight, with people doing the whole loop
6. Impossible to estimate, due to multiple entry points; some hiking is in and out same way and some hiking is loop trip; some people hike loop 1 way and others the opposite direction, etc.
7. Estimate that 50% of hikers on this trail do the entire loop, usually counterclockwise from Sunrise; the other 50% of use is day hiking on the ends of the trail near Sunrise and Ipsut Creek Campground, or 1 night stays to camps and back out the same way.
8. This trail intersects the WT near Berkeley Park and also at the snout of the Carbon Glacier; there is also access to the Northern Loop Trail from the West Fork Trail and the Lake Eleanor Trail; estimate that 70% of the use of this trail starts at Sunrise and goes counterclockwise around the loop.
9. 2 primary trailheads--Sunrise with 200+ spaces and Ipsut Creek Campground with space for 40 cars and 30 campsites; secondary trailhead is the West Fork of the White River on USFS land with space for about 10 cars.

Sunrise
70% x 50% Day
70% x 50% Night

75. Burroughs Mountain/Glacier Basin Trail:

(NOTE: From First Burroughs Mountain to Glacier Basin Trail)

1. See GMPTRAIL.DOC
2. 40 people per day on trail
3. Out of Standard
4. High Demand--great views of the mountain; access to interesting high subalpine area; potential loop trips; easy access from Sunrise and White River Campground
5. Average time on trail = 3-4 hours with time for resting and views and return
6. Estimate that 75% of hikers go only to Second Burroughs Mountain; 20% go to Third Burroughs Mountain; only 5% follow the trail to the Glacier Basin Trail.

7. Most hikers (90+%) go out and back from Sunrise; only about 5% make the loop to the Glacier Basin Trail and to White River Campground.
8. See #6 & 7 above.
9. Primary trailhead is Sunrise with 200+ spaces; White River Campground is a secondary trailhead with 60 spaces and 100 campsites.

76. Sunrise Rim Trail:

(NOTE: Sunrise parking lot to Wonderland Trail)

1. See GMPTRAIL.DOC
2. 50 people per day on trail
3. Out of Standard
4. High Demand--great views, easy access, short trail that is relatively flat
5. Average time on trail = 1 hour
6. Trail is so short that virtually everyone who starts the trail goes to the end, and then usually connecting with other Sunrise trails
7. Most commonly done as a loop trip, connecting with other Sunrise trails (60%); the other 40% of hikers to out and back the same way.
8. This trail connects with the Wonderland Trail and eventually to the Burroughs Mountain Trail and then to the Sourdough Ridge Trail; several loop trips are possible; see #7 above for percentages.
9. 1 trailhead--Sunrise with 200+ parking spaces

77. Emmons Moraine Trail:

1. See GMPTRAIL.DOC
2. 50 people per day on trail
3. Out of Standard
4. High Demand--easy hike, relatively flat, close to White River Campground
5. Average time on trail = 1-2 hours
6. Trail is so short that virtually everyone who hikes trail makes it to the end
7. 1 way in and 1 way out
8. This trail branches off the Glacier Basin Trail; no other trails in the area; access is in and out the Glacier Basin Trail
9. 1 trailhead--White River Campground with space for 60 cars and 100 campsites.

78. Hot Springs Interpretive Trail:

1. See GMPTRAIL.DOC
2. 50 people per day on trail
3. Out of Standard
4. High Demand--easy, short, flat trail; close to large campground (Ohanapecosh)
5. Average time on trail = 1/2 hour
6. Trail is so short that virtually all who start this trail finish it
7. Loop trail, usually hiked counter clockwise
8. This trail intersects the Silver Falls Loop Trail, and many people combine the 2 trails into 1 hike
9. 1 trailhead--Ohanapecosh Campground with space for 20 cars and 200 campsites.

Front
Country

79. Tipsoo Lake Area Trails:

(NOTE: This includes all the trails around Tipsoo Lake)

1. See GMPTRAIL.DOC
2. 50 people per day on trails
3. Out of Standard
4. High Demand--great views, easy, level, short hike; pretty lake
5. Average time on trail = 1 hour
6. Trail is so short that virtually everyone goes all the way around the lake
7. Loop trail around lake--50/50 clockwise and counter clockwise

Front
Country

8. Trails around lake are primarily used by those who want a short hike while picnicking, etc. and hikers do not usually access other trails for the Tipsoo Lake trails.
9. 2 trailheads--Tipsoo Lake with space for 100 cars, and Chinook Pass with space for 40 cars.

80. Sourdough Ridge Trail:

1. See GMPTRAIL.DOC
2. 50-100 people per day on trail (50 on the eastern end of trail and 100 on western end of trail).
3. Out of Standard
4. High Demand--great views, easy access, access to major trails of Sunrise area;
5. Average time on trail = 2 hours
6. Trail is short and relatively easy--about 90% of hikers do most of the trail
7. 50% of hikers go in and out the same way and 50% make a loop trip to Frozen Lake and back to Sunrise on a different trail
8. This trail intersects with the Burroughs Mountain Trail and the Wonderland Trail, and several loop hikes are possible. At least 50% of hikers opt for 1 of these loop hikes rather than hike in and out the same way.
9. 2 trailheads--Sunrise with 200+ spaces, and Sunrise Point with 40 spaces.

Way Trails & Abandoned Constructed Trails:

1W. Nisqually Boundary Trail -(Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. 2 people per day on trail
3. Below Standard
4. Low Demand--hike is all lowland forest, with no views and no points of interest along trail; trail is primarily used early season for conditioning hikes when the rest of the park trails are still snow-covered.
5. Average time on trail = 3 hours, 2 hours up trail and 1 hour down
6. No definite turn around point on trail; hikers just go until they decide to turn around
7. One way in and 1 way out
8. N/A--trail not close to any other trails
9. Main trailhead is at Nisqually Entrance which has room for only 1 or 2 visitor cars; however, there is room for 10-15 cars at Sunshine Point Campground which is 1/4 mile up road.

2W. Lake George Way Trail:

1. This way trail circles Lake George and has been created in the past by campers at Lake George who wanted to walk around the lake or to visit different parts of the shoreline for fishing. Any data which might be relevant is available in the section above for the Gobblers Knob Trail (#7); otherwise, the requested information is irrelevant.

3W. Aurora Peak Way Trail:

1. This way trail leaves the Wonderland Trail just south of Klapatche Park and goes to a viewpoint at the top of Aurora Peak. It has been created in the past primarily by campers who stay in the backcountry camp at Klapatche Park. It is a relatively insignificant way trail which does not intersect with any trails other than the WT, and does not affect hiking or use patterns in any significant way. Any data which might be relevant is available in the section above for the Wonderland Trail, Emerald Ridge to Klapatche Park; otherwise, the requested information is irrelevant.

4W. Sunset Lookout Trails (1 is an Abandoned Constructed Trail and 1 is a Way Trail):

1. There are 2 trails at this location; the abandoned constructed trail was the main access trail to the old Sunset Fire Lookout, and the way trail was created primarily by the Golden Lakes backcountry Ranger and hikers camped at the Golden Lakes backcountry camp. It is a shortcut trail from the old lookout site back to the Golden Lakes camp and patrol cabin. Both trails now are relatively insignificant with very little use. Neither trail intersects any trails other than the WT, and neither affects hiking or use patterns in any significant way. Any data which might be relevant is available in the section above for the Wonderland Trail, Klapatche Park to Golden Lakes; otherwise, the requested information is irrelevant.

5W. Tatoosh Traverse Way Trail:

1. See GMPTRAIL.DOC
2. 2 people per day on trail
3. Out of Standard
4. Mostly Low Demand, however, near the Pinnacle Saddle at end of Pinnacle Peak Trail, it is Moderate Demand, as people wander a ways on this way trail; part of the Tatoosh Traverse is the primary access to the top of Pinnacle Peak, a popular scramble for novice climbers; otherwise the rest of the way trail is low demand, as parts of it are rugged and most hikers don't want to go far off the constructed trail.
5. Average time on trail = 1 hour for most hikers; however for those who do the entire Tatoosh

Traverse or large parts of it, the average time is about 6-10 hours.

6. The Tatoosh Traverse is a route primarily along the spine of the Tatoosh Range from Stevens Peak on the east to Eagle Peak on the west. Occasionally, hikers do the entire traverse; however, more frequently, hikers just do sections of this route. The way trail is most defined on the south side of Pinnacle Peak and Castle Peak and over to Plummer Peak. On Plummer Peak is a separate spur trail which leads from Tatoosh Traverse way trail to the top of Plummer Peak. Probably 90% of the use on this way trail is between Plummer Peak and Castle Peak, with a high percentage of that figure for people climbing Plummer, Pinnacle, and Castle.
7. Direction of travel varies a lot depending on why hikers have accessed the trail; for climbers going to Plummer, Pinnacle, and Castle, they generally go in and out the same way, with initial access off the Pinnacle Peak Trail. For those doing a through trip along the traverse, most travel is from east to west, although if not doing the entire traverse, travel from west to east from Pinnacle Peak Trail to Unicorn Peak is common.
8. The Tatoosh Traverse route is used in 3 principal ways: for access for those climbing Plummer, Pinnacle, and Castle; for doing the entire traverse from Stevens Peak to Eagle Peak; and for doing partial traverses, usually Pinnacle Peak Trail to Eagle Peak Trail, or Pinnacle Peak Trail to Snow Lake Trail. Estimate that 90% of the use of the route is for the climbing access; estimate that 90% of those doing the whole traverse start at the east and go west so that they can start at a higher elevation; estimate that for those doing partial traverses, 50% go from Pinnacle Trail to Eagle Peak Trail, 40% go from Pinnacle Trail to Snow Lake Trail; and 10% go from Snow Lake Trail to Pinnacle Trail.
9. Primary trailhead is the parking lot at Reflection Lakes, with space for 50 cars; secondary trailhead is the Snow Lake parking area with space for about 20 cars; thirdly, if someone started at Longmire on the Eagle Peak Trail, there is room for 20 cars at the Longmire Community Building, with more parking available at Longmire.

6W. Plummer Peak Way Trail:

1. As mentioned above in the Tatoosh Traverse section, this way trail branches off the Tatoosh Traverse way trail and goes to the top of Plummer Peak. This way trail is a relatively insignificant trail that does not intersect any other trails and does not affect hiking or use patterns in any significant way. Any data which might be relevant is available in the section above Tatoosh Traverse Way Trail; otherwise, the information requested is irrelevant.

7W. Carbon Boundary Trail--(Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. 2 people per day on trail
3. Below Standard
4. Low Demand--this trail is similar to the Boundary Trail at Nisqually Entrance--it is all lowland forest hiking with no good views; it is primarily used early season at a conditioning hike when all the higher elevation trails are still snow-covered. Primarily used by groups such as the Mountaineers.
5. Average time on trail = 4-6 hours; depending on how far hikers want to go. Suspect that 2-3 hours is spent hiking up trail, 1/2 -1 hour at the turn around point, and 1-2 hours hiking back down the trail.
6. Unknown; this trail is sometimes used to access the Alki Crest area, and some hikers make it that far, but others turn around prior to that.
7. The trail is primarily a 1 way in and 1 way out, starting and ending at the Carbon River Entrance; however, for those who can navigate where the old trail is now obliterated, a trip from the Carbon River Entrance to the Mowich Road or visa versa is possible, but this trip is rarely done.
8. N/A--the trail stands by itself and does not intersect with any other trails.
9. 2 primary trailheads--Carbon River Entrance with space for 10 cars, and the park boundary

on the Mowich Lake Road with space for about 10 cars along the road shoulder.

8W. Grindstone Trail (Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. 4 people per day on trail
3. Below Standard
4. Low Demand for most of the summer; Moderate Demand when the Mowich Road is still closed to visitor vehicles. This trail is primarily used as access to Mowich lake when the road to the lake is still closed to visitor vehicles. Once the road opens to the public, use on the trail drops dramatically, as people drive all the way to the lake. In the Fall when the road once again closes to the public, hikers again start to use the trail, so that they do not have to walk the longer distance on the road.
5. Average time on trail = 2 hours--1 hour up trail and 1 hour down trail; most hikers do not stop for a significant amount of time along the trail.
6. Most of the people who start the trail make it to Mowich Lake, although some stop short due to fatigue or increasing snow depth. Estimate that 80% of hikers hike the whole trail.
7. 1 way in and 1 way out on trail, although some hikers no doubt hike 1 way on the trail and 1 way on the road for variety
8. People use this trail to access the trails at Mowich Lake--Spray Park Trail, Wonderland Trail, and the Tolmie Peak Trail. It should be noted that the original Grindstone Trail went from the park boundary all the way to Mowich Lake; however, some of that trail was obliterated by the current road, so now the section of trail primarily used is the upper 2 miles of trail. Use below that is negligible.
9. Most of the time when this trail is used, the Mowich Road is open to the public to the Paul Peak trailhead, with space for about 15 cars and overflow for about 30 cars.

9W. Knapsack Pass Way Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Below Standard
4. Low Demand--the Knapsack Pass Way Trail is an alternative route to access the Spray Park area from Mowich Lake; however, it is a way trail with minimal improvements as compared to the Spray Park Trail, it is more difficult hiking, and it is not well known by most hikers, hence demand is low; this is appropriate, as we do not want to attract more hikers to this fragile area which only has a partial trail through it.
5. Average time on trail = 2-4 hours; estimate 1-2 hours up trail, 1/2-1 hour at Knapsack Pass, and 1 hour down trail if hikers return the same way.
6. Estimate that 90% of hikers who start this way trail go all the way to Knapsack Pass; usually it is the harder hikers who know about this trail and who will attempt it, so most make it at least to the pass. Estimate that of those who make it to the pass, 70% of those continue on the Spray Park area, and 30% return to Mowich Lake the same way.
7. Most of the people who hike this way trail make a loop trip out of it, going from Mowich Lake to Knapsack Pass and then to Spray Park, returning to Mowich Lake via the Spray Park Trail. Estimate that 90% of people who hike this loop do it this way (clockwise).
8. This way trail intersects with the Spray Park Trail. See #7 above for the common circuit hiked on these trails.
9. 1 trailhead--Mowich Lake with space for 30 cars and overflow of 100+ cars

10W. Pyramid Peak Way Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail; **NOTE:** When WS Road was open, and Tahoma Creek Trail was undamaged, estimate about 10 people per day used this trail

3. Near Standard
4. Low Demand--this way trail starting at the end of the Mirror Lakes Trail is difficult to reach, being a 6-7 mile hike just to reach the start of the way trail; the way trail leads to some very pretty meadows and excellent close up views of the mountain; **NOTE:** when the WS Road was open and the Tahoma Creek Trail was undamaged, access to this way trail was easier, and so demand was probably moderate then
5. Average time on trail = 4 hours, for those going to the end of the way trail which is at the top of Pyramid Peak; estimate that about 50% of those on this trail go all the way to the top of Pyramid Peak; the other 50% stop short, as the trail gets fairly steep going up the last half of Pyramid; for those going to the top of Pyramid, estimate that they spend 2 hours hiking up, 1 hour at the top or at other resting points along the way, and 1 hour hiking down.
6. See #5 above.
7. 1 way in and 1 way out, assuming that people stay on the way trail; probably 20% leave the way trail and hike at least some of the return trip cross country (off any trails).
8. N/A--see #7 above.
9. Access to this way trail is from 3 directions--from Longmire with 90 parking spaces & Maternity Curve trailhead with 30 spaces; from Kautz Creek trailhead, with 30 spaces; and from Dry Creek on the WS Road with 40 spaces.

11W. Pinnacle Peak Way Trail:

1. This way trail leaves the Pinnacle Peak Trail about 1/3 mile up the trail and goes in a north to south direction to the Pinnacle Glacier. It is used infrequently, and has been created in the past primarily by groups such as the Mountaineers heading up to permanent snow fields of the Pinnacle Glacier to do ice axe practice. We have done no rehab or stabilization of this way trail, but we do not want to encourage use of this way trail because of the resource damage caused by the trail being in terrain that is too steep. Thus the information requested is irrelevant.

12W. McClure Rock Way Trail:

1. This way trail leaves the High Skyline Trail and goes to McClure Rock. It has not had any rehab or stabilization work done to it. Use of the trail is difficult to estimate, as people in this area hike both on and off trail. This way trail is more of a social trail than a trail that the park is trying to promote at this point in time. Perhaps at some future date this trail will become an official way trail, but as of now, the information requested is impossible to obtain and irrelevant, as the park is not even sure we want to promote use of this trail.

13W. Tokaloo Way Trail: (misspelled Takaloo on GIS map)

1. See GMPTRAIL.DOC
2. 2 people per day on trail; **NOTE:** When WS Road was open, estimate that 10 people per day used this trail.
3. Near Standard
4. Low Demand--trail is difficult to access, as it is so far from roads; most of the people on this way trail now are climbers going to Tokaloo Spire or up the Tahoma Glacier, but due to closure of the WS Road, climbing activity has dramatically reduced--too long of an approach; in the past there were more day hikers who would use this way trail up past St. Andrews Lake to the lower Puyallup Cleaver. When the WS Road was open to the public, demand on this way trail was moderate.
5. Average time on trail = 5-6 hours--2-3 hours up; 1-2 hours at turn around point, wherever that happened to be, and 1-2 hours return
6. Estimate that 60% of people on this way trail go to Tokaloo Spire, since most of the people on the trail are climbers.
7. 1 way in and 1 way out

8. N/A--this way trail leads off the WT at St. Andrews Lake and goes to Tokaloo Spire; no other trails in the area; most people go up and down the same way, although summit climbers will sometimes go in this route and descend the mountain by another route, usually through Camp Muir.
9. 1 trailhead at Dry Creek on the WS Road with space for about 40 cars; **NOTE:** when the WS Road was open, the trailhead at St. Andrews Creek had space for about 30 cars.

14W. Champion Access Way Trail (Abandoned "Jeep" Road):

1. See GMPTRAIL.DOC
2. 1 person per day on trail
3. Below Standard--**NOTE:** We do not want to encourage use of this way trail, as it will promote hikers entering the park's backcountry from adjacent lands outside the park; typically this leads to more problems than when a hiker starts in the park; commonly we see groups with no permits, hikers with dogs, illegal fires, etc. from those groups that enter the park on such trails from outside the park.
4. Low Demand--access to this way trail requires a long drive through Champion International land, and the payment of a use fee to them; then because of a locked gate, hikers must hike about 1 mile on a gravel road before reaching the way trail.
5. Average time on trail = 1 1/2 hours--about 3/4 hour in and 3/4 hour out
6. Since this way trail is an access route to the WT at Golden Lakes, most people who start the trail go all the way to the WT and usually on to Golden Lakes
7. 1 way in and 1 way out; it is uncommon to go in this route and exit another way off the WT since it involves leaving a vehicle on Champion Lands for later pickup, or being dropped off at the trailhead
8. Most people who use this trail go in and out the same way and use the trail just to access the Golden Lakes area.
9. 1 trailhead on Champion International lands, with unlimited space, as there is no designated parking area.

15W. Cliff Lake Way Trail (Golden Lakes):

1. This way trail leads off the WT near Golden Lakes and goes to one of the larger lakes in the area. It was created in the past primarily by fishermen who camped in the Golden Lakes area and wanted access to the lake for fishing. It gets minimal use now and is an insignificant way trail--the information requested is irrelevant.

16W. Chenuis Creek Way Trail:

1. This way trail is a continuation of the Chenuis Falls Trail, and leads from the falls to the north park boundary. It is an insignificant way trail that gets minimal use--the information requested is irrelevant.

17W. Crystal Peak Trail (Abandoned Constructed Trail):

1. This trail branches off the Crystal Lakes Trail and goes to the site of an old fire lookout on Crystal Peak. It is a relatively little used trail; the data requested is irrelevant. See Crystal Lakes Trail (#53) for related information.

18W. Echo & Observation Rock Way Trail:

1. See GMPTRAIL.DOC
2. 15 people per day on trail
3. Out of Standard
4. High Demand--this way trail branches off the Spray Park Trail at the high point of the trail between Spray and Seattle Parks; it heads up to Echo and Observation Rocks, which have excellent close up views of the north side of the mountain; the way trail accesses

permanent snowfields which skiers use throughout the summer; excellent cross country camping; relatively easy access from Mowich Lake.

5. Average time on trail = 3-4 hours--1-2 hours up trail; 1 hour at high point/turnaround point; 1 hour down trail
6. Estimate that 50% of those who start on the way trail make it to Echo and/or Observation Rock; the other 50% stops lower due to fatigue or lack of time, as the hike is moderately strenuous to the 8000' level.
7. 1 way in and 1 way out; however, probably a high percentage of people (70%?) cut cross country on the way out and rejoin the Spray Park Trail somewhere in Spray Park.
8. See #7 above--most people go up this way trail due to the easier hiking, and those that don't follow the way trail back cut cross country back to the Spray Park Trail.
9. 1 main trailhead at Mowich Lake, with space for 30 cars plus overflow of about 100+ cars.

19W. Lower Curtis Ridge Way Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Out of Standard
4. Moderate Demand--trail is used as the primary access to the Liberty Ridge climbing route; excellent camping for people who want to camp in a cross country zone with superb close up views of the spectacular north side of the mountain; access is relatively strenuous as it is about 10 miles on the WT just to get to the start of this way trail;
5. Average time on trail = 4 hours--2 hours up trail; 1 hour at high point; 1 hour down trail; many of the people who use this trail are campers who spend the night in this cross country zone.
6. Estimate that 70% of the hikers who start on this way trail get up to 7400' elevation, which is near the end of the way trail; most of the camps on the ridge are 7400' down to about 7000'. The other 30% stop below this point due to fatigue or lack of time.
7. 1 way in and 1 way out.
8. N/A--this way trail leads off the WT at the saddle between Mystic Lake and Moraine Park; no other trails in the area; hikers usually go up and down the same route.
9. Access is primarily from Sunrise with 200+ spaces and Ipsut Campground with 40 spaces and 30 campsites

20W. Third Burroughs Way Trail:

1. See GMPTRAIL.DOC
2. 10 people per day on trail
3. Near Standard
4. Moderate Demand--great views close to the mountain; interesting high elevation subalpine terrain.
5. Average time on trail = 2-3 hours--1 hour out, 1 hour back, some time for resting and viewing.
6. Estimate that 90% of visitors who start this way trail get to Third Burroughs Mountain.
7. Usually 1 way in and 1 way out, unless hikers leave the trail and cut cross country to come back a different way.
8. This way trail branches off the Burroughs Mountain/Glacier Basin Trail, which is the only access route to this area; no other trails in the area.
9. 1 trailhead--Sunrise with space for 200+ cars.

21W. West Fork Trail (Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. < 5 people per day on trail
3. Below Standard
4. Low Demand--lower forest trail with no good views except of river; primarily used as access to Lake James, and Northern Lakes area
5. Average time on trail = 2-3 hours, split evenly going in and going out
6. Estimate that 90% of hikers who start this way trail make it to the end of the trail which is at the jct with the Northern Loop Trail.
7. 1 way in and 1 way out for most hikers; virtually none come out a different way
8. This way trail goes from the north park boundary to the Northern Loop Trail at Van Horn Falls. From there, hikers access the Lake James, Northern Lakes area, and then return the same way.
9. 1 trailhead--West Fork trailhead on USFS land with 10-20 spaces

22W. Eleanor Creek Way Trail:

1. See GMPTRAIL.DOC
2. 12 people per day on trail
3. Near Standard
4. Moderate Demand--easy access to Lake Eleanor and a backcountry camp at lake; good fishing; very easy access to Grand Park compared to hiking from Sunrise
5. Average time on trail = 2 hours--1/2 hour both in and out, and 1 hour at lake
6. The way trail is so short that virtually everyone who starts this trail goes to the end at the lake.
7. 1 way in and 1 way out
8. This way trail goes from the north park boundary to Lake Eleanor, where it joins the Lake Eleanor Trail: hikers using this way trail hike in to the lake or go beyond to Grand Park and then return the same way.
9. 1 trailhead--Lake Eleanor trailhead on USFS land, with 15 spaces

23W. Independence Ridge Trail (Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. 2 people per day on trail
3. Below Standard
4. Low Demand--interesting natural bridge off the trail, but very long distance from trailheads and relatively difficult access.
5. Average time on trail = 2 hours, including a side trip to the Natural Bridge (see #24 below)
6. Virtually everyone who goes out this way trail goes to the Natural Bridge, since access is so close to start of the way trail; 10% or so go further out on the Independence Ridge

Way Trail

7. 1 way in and out
8. This way trail leads off the Northern Loop Trail and goes north along Independence Ridge. A side trail branches off this way trail and goes to the Natural Bridge, which is the primary attraction on this trail; hikers go in and out on the same trail and get back on the Northern Loop Trail
9. 3 trailheads--Sunrise with 200+ spaces; Ipsut Creek Campground with space for 40 cars and 30 campsites; West Fork trailhead on USFS land with 10-20 spaces

24W. Natural Bridge Trail (Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. 2 people per day on trail
3. Below Standard
4. Low Demand--see #23 above
5. Average time on trail = 1/2 hour
6. Virtually everyone who goes on this way trail goes to the end to view the Natural Bridge.
7. 1 way in and 1 way out
8. This way trail leads off the Independence Ridge Way Trail which leads off the Northern Loop Trail. Hikers go in and out the same way to reach the Natural Bridge.
9. 3 trailheads--see #23 above

25W. Southeast Boundary Trail (Abandoned Constructed Trail):

1. See GMPTRAIL.DOC
2. <2 people per day on trail
3. Below Standard
4. Low Demand--lower forest trail with no views; trail not maintained and difficult to follow; steep terrain
5. Average time on trail = 4-5 hours
6. Very little use on this trail; it is a possible access to Three Lakes and the Pacific Crest Trail; no other significant destinations along the trail
7. Most hikers use the trail in and out the same way; however, it is an alternate way to get to or back from Three Lakes and the PCT, so it could be a connecting trail also
8. This way trail connects to the PCT and to the Laughingwater Creek Trail; use is primarily by Rangers on hunting patrol or by hunters; little other use
9. 1 main trailhead at Ohanapecosh Campground with 20 spaces and 200 campsites; parking of an undetermined amount is also available along various places on the Carlton Creek Road.

26W. Backbone Ridge Trails (Abandoned Constructed Trails):

1. See GMPTRAIL.DOC
2. <1 hiker on trail per week
3. Below Standard
4. Low Demand--trails are old, not maintained, and hard to follow; all forested, with no views and no good destinations.
5. Average time on trail = 3-4 hours, for those out exploring old trails.
6. Unknown--no specific destinations along these old trails
7. Most people probably go in and out the same way; however, it is possible to follow 1 trail and then reach the Stevens Canyon Road at another spot by following a different branch of these trails.
8. There are 3 primary way trails in this group--1 leads from the apex of Backbone Ridge on the Stevens Canyon Road and goes north--this is the Backbone Ridge Trail. About 2 miles up this way trail, a branch leads down and to the west; this branch is called the Blister Rust Trail; a branch also leads to the east and both branches eventually intersect the Stevens Canyon Road. There is so little use of these trails that there

is no system of use.

9. There are parking areas at each of the 3 access points to these way trails--the largest is at Backbone Ridge and there is space there for 50+ cars; at each of the other trailheads, there are small lots, with space for about 5-10 cars.

27W. Deadwood Lakes Way Trail:

1. See GMPTRAIL.DOC
2. 5 people per day on trail
3. Below Standard
4. Low Demand--pretty lake, but access trail is not obvious
5. Average time on trail = 3 hours--1 hour to hike in and out, and 2 hours at lake (fishing, etc.)
6. trail is short and objective is the lakes, so most (70%) who start this trail go to the end; the rest turn around at the ridge crest above the lake
7. 1 way in and 1 way out
8. N/A--no other trails in the area; access is off the Pacific Crest Trail
9. 1 trailhead--Chinook Pass with space for 40 cars.

Walker, Greg

From: Suzann Essman
Sent: Thursday, June 11, 1998 8:52 AM
To: Walker, Greg
Subject: Re: MORA TRAILS - JUST A FEW YEAH
Importance: High

I hope this information helps.

Carl F

Reply Separator

Subject: MORA TRAILS - JUST A FEW YEAH
 Author: Suzann Essman at NP-DENVER
 Date: 6/10/98 10:31 AM

HI GUYS, THE WORK YOU GUYS DID WAS GREAT MANY MANY MANY THANKS
THERE ARE JUST A FEW THAT ARE MISSING AS FOLLOWS:

RICK'S LIST

INTER GLACIER (SUNRISE AREA)
 LAKE LOUISE
 SHADOW LAKE(SUNRISE AREA)
 SPRAY FALLS SPUR (MOWICH AREA OFF SPRAY PARK TRAIL)
 LOWER LAKES (PARADISE AREA INSIDE VALLEY ROAD)

CARL'S LIST

INTER GLACIER (SUNRISE AREA) This is currently considered a way trail and is not maintained. If the trail is added to the maintenance list it will become part of the Glacier Basin Trail
 LAKE LOUISE A short(< 1 mi.) way trail from the hiway to the lake
 SHADOW LAKE(SUNRISE AREA) This is not separate trail but is a part of the Wonderland Trail
 SPRAY FALLS SPUR (MOWICH AREA OFF SPRAY PARK TRAIL) This trail is not considered a separate trail but is part of the Spray Park Trail.

DARIN'S LIST

WAY TRAILS (NOT SURE IF WE NEED ON MAP OR NOT? YOU GUYS DECIDE)

CHENUIS CREEK TRAIL
 PINNACLE PEAK WAY TRAIL

TRAIL- TRAILS

BOX CANYON OVERLOOK TRAIL
 PET EXERCISE LOOP(SUNRISE)
 ECHO/OBSERVATION ROCK TRAIL (SEE BELOW IN GREEN)
 LOWER CURTIS RIDGE WAY TRAIL (SEE BELOW IN GREEN)
 BURROUGHS MT/GLACIER BASIN TRAIL
 (? IS THIS BURROUGHS LOOP
 ON YOUR MAP OR A COMBO OF TRAILS -
 TALK WITH RICK AND CARL???)

75. Burroughs Mountain/Glacier Basin Trail:
 (NOTE: From First Burroughs Mountain to Glacier Basin Trail)

1. Fabiani
2. 40 people per day on trail
3. Out of Standard
4. High Demand--great views of the mountain; access to interesting high subalpine area; potential loop trips; easy access from Sunrise and White River Campground
5. Average time on trail = 3-4 hours with time for resting and views and return
6. Estimate that 75% of hikers go only to Second Burroughs Mountain; 20% go to Third Burroughs Mountain; only 5% follow the trail to the Glacier Basin Trail.
7. Most hikers (90+%) go out and back from Sunrise; only about 5% make the loop to the Glacier Basin Trail and to White River Campground.
8. See #6 & 7 above.
9. Primary trailhead is Sunrise with 200+ spaces; White River Campground is a secondary trailhead with 60 spaces and 100 campsites.

Echo & Observation Rock Way Trail:

1. Fabiani
2. 15 people per day on trail
3. Out of Standard
4. High Demand--this way trail branches off the Spray Park Trail at the high point of the trail between Spray and Seattle Parks; it heads up to Echo and Observation Rocks, which have excellent close up views of the north side of the mountain; the way trail accesses permanent snowfields which skiers use throughout the summer; excellent cross country camping; relatively easy access from Mowich Lake.
5. Average time on trail = 3-4 hours--1-2 hours up trail; 1 hour at high point/turnaround point; 1 hour down trail
6. Estimate that 50% of those who start on the way trail make it to Echo and/or Observation Rock; the other 50% stops lower due to fatigue or lack of time, as the hike is moderately strenuous to the 8000' level.
7. 1 way in and 1 way out; however, probably a high percentage of people (70%?) cut cross country on the way out and rejoin the Spray Park Trail somewhere in Spray Park.
8. See #7 above--most people go up this way trail due to the easier hiking, and those that don't follow the way trail back cut cross country back to the Spray Park Trail.
9. 1 main trailhead at Mowich Lake, with space for 30 cars plus overflow of about 100+ cars.

19W. Lower Curtis Ridge Way Trail:

1. Fabiani
2. 10 people per day on trail
3. Out of Standard
4. Moderate Demand--trail is used at the primary access to the Liberty Ridge climbing route; excellent camping for people who want to camp in a cross country zone with superb close up views of the spectacular north side of the mountain; access is relatively strenuous as it is about 10 miles on the WT just to get to the start of this way trail;
5. Average time on trail = 4 hours--2 hours up trail; 1 hour at high point; 1 hour down trail; many of the people who use this trail are campers who spend the night in this

cross country zone.

6. Estimate that 70% of the hikers who start on this way trail get up to 7400' elevation, which

is near the end of the way trail; most of the camps on the ridge are 7400' down to

about 7000'. The other 30% stop below this point due to fatigue or lack of time.

7. 1 way in and 1 way out.

8. N/A--this way trail leads off the WT at the saddle between Mystic Lake and Moraine Park;

no other trails in the area; hikers usually go up and down the same route.

9. Access is primarily from Sunrise with 200+ spaces and Ipsut Campground with 40 spaces and 30 campsites

m:/msword/mora/1-suzann/contract/gmptrail.doc; 5/28/98;1

TO: Bill Byrnes

FROM: Trails Foreman, Mt. Rainier National Park

SUBJECT: Trail Information

The following is the requested trail information from Mt. Rainier's trail system. This information consists of the basic physical characteristics of trail name, trail type, length, width, surfacing and grade.

Note: The bolded numbers prior to each trail refer to the number used in the trails.doc document, for each respective trail. I thought it would help you cross reference the two trail documents.

NISQUALLY/LONGMIRE/PARADISE AREA:

38) TRAIL OF THE SHADOWS, Type B, 0.7 Mi., 6 to 8 ft. wide, gravel and natural surface, 5% grade.

✓ (22) NARADA FALLS TRAIL, Type B, 0.8 Mi., 4 to 6 ft. wide, asphalt and natural surface, 5 to 15% grade.

1) EAGLE PEAK TRAIL, Type B, 3.6 Mi., 2 to 6 ft. wide, natural surface, 10 to 20% grade.

✓ (46) SKYLINE TRAIL, Type B, 6.0 Mi., 4 to 8 ft. wide, asphalt, gravel and natural surface, 5 to 20% grade.

✓ (49) HIGH SKYLINE TRAIL, Type B, 0.8 Mi., 4 to 6 ft. wide, natural surface, 10% grade.

✓ (24) PARADISE GLACIER TRAIL, Type B, 1.6 Mi., 2 to 4 ft. wide, natural surface, 5% grade.

2) TWIN FIRS TRAIL, Type B, 0.4 Mi., 2 to 4 ft. wide, natural surfacing, 0 to 20% grade.

✓ (45) ALTA VISTA TRAIL, Type A, 1.1 Mi., 4 to 8 ft. wide, asphalt surface, 5 to 15% grade.

✓ (25) PEBBLE CREEK TRAIL, Type B, 0.6 Mi., 3 ft. wide, gravel and natural surface, 10 to 20% grade.

✓ (45) GUIDE HOUSE TRAIL, Type A, 0.1 Mi., 8 ft. wide, asphalt surface, 5 to 10%.

✓ (45) AVALANCHE LILY TRAIL, Type A, 0.3 Mi., 8 ft. wide, asphalt surface, 5 to 10%.

- ✓ (45) WATERFALL TRAIL, Type A, 0.4 Mi., 8 ft. wide, asphalt surface, 5 to 10%.
- ✓ (48) GLACIER VISTA TRAIL, Type A, 0.2 Mi., 4 to 6 ft. wide, gravel and natural surface, 10% grade.
- ✓ (45) DEADHORSE CREEK TRAIL, Type A, 1.2 Mi., 4 to 8 ft. wide, asphalt and natural surface, 5 to 15% grade.
- (51) MORaine TRAIL, Type B, 0.5 Mi., 2 ft. wide, natural surface, 10% grade.
- ✓ (47) GOLDEN GATE TRAIL, Type B, 1.0 Mi., 4 to 6 ft. wide, gravel and natural surface, 10% grade.
- ✓ (50) FOURTH CROSSING TRAIL, Type B, 0.3 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- ✓ (45) NISQUALLY VISTA TRAIL, Type B, 0.9 Mi., 4 to 8 ft. wide, asphalt surface, 5 to 10% grade.
- ✓ (23) LAKES TRAIL (MAZAMA RIDGE), Type B, 1.9 Mi., 2 to 4 ft. wide, natural surface, 5 to 10% grade.
- ✓ (42) HIGH LAKES TRAIL, Type B, 1.2 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- LOWER LAKES TRAIL, Type B, 1.5 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 9) ROUND PASS TRAIL, Type B, 0.6 Mi., 4 ft. wide, natural surface, 10% grade.
- 4) MIRROR LAKES, Type B, 0.6 Mi., 2 to 4 ft. wide, natural surface, 5% grade.
- 6) TAHOMA CREEK TRAIL, Type B, 2.1 Mi., 4 to 6 ft. wide, natural surface, 10% grade.
- 10) SOUTH PUYALLUP (SOUTH FORK TRAIL), Type B, 1.6 Mi., 3 ft. wide, natural surface, 10% grade.
- 20) SNOW LAKE (BENCH LAKE TRAIL), Type B, 1.2 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 26) COMET FALLS/VAN TRUMP PARK TRAIL, Type B, 5.6 Mi., 3 to 6 ft. wide, natural surface, 10 to 20% grade.

27)MILDRED POINT TRAIL, Type B, 0.6 Mi., 2 to 4 ft. wide, natural surface, 10 to 20% grade.

21)PINNACLE PEAK TRAIL, Type B, 1.3 Mi., 6 ft. wide, natural surface, 10 to 15% grade.

13)NORTH PUYALLUP TRAIL, Type B, 2.7 Mi., Old road bed, gravel and natural surface, 5% grade.

39)KAUTZ CREEK OVERLOOK TRAIL, Type B, 0.1 Mi., 6 ft. wide, Synthetic Lumber surface, 0% grade.

12)DENMAN FALLS TRAIL, Type B, 0.2 Mi., 4 ft. wide, natural surface, 10% grade.

5)KAUTZ CREEK TRAIL, Type B, 5.7 Mi., 2 to 4 ft. wide, natural surface, 5 to 20 % grade.

3)RAMPART RIDGE TRAIL, Type B, 2.9 Mi., 3 to 6 ft. wide, natural surface, 10% grade.

11)ST. ANDREWS CREEK TRAIL, Type B, 2.6 Mi., 4 to 6 ft. wide, natural surface, 10% grade.

7)GOBBLERS KNOB TRAIL, Type B, 2.4 Mi., 4 ft. wide, natural surface, 10% grade.

8)GOAT LAKE TRAIL, Type B, 0.4 Mi. to Park boundary, 1.2 Mi. to Goat Lake, 2 to 4 ft. wide, natural surface, 10% grade.

OHANAPECOSH AREA TRAILS

68)EASTSIDE TRAIL, Type B, 11.5 Mi., 4 ft. wide, natural surface, 5 to 10% grade.

69)GROVE OF THE PATRIARCHS, Type B, 0.3 Mi., 6 ft. wide, natural surface, 5% grade.

70)LAUGHINGWATER CREEK TRAIL, Type B, 7.3 Mi., 4 to 6 ft. wide, natural surface, 10% grade.

61)OWYHIGH LAKES TRAIL, Type B, 8.9 Mi., 2 to 8 ft. wide, natural surface, 10% grade.

78)HOT SPRINGS INTERPRETIVE TRAIL, Type B, 0.3 Mi., 6 ft. wide, natural surface, 5% grade.

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19) STEVENS CREEK TRAIL, Type B, 0.7 Mi., 6 ft. wide, natural surface, 10 to 15 % grade.

40) BOX CANYON OVERLOOK TRAIL, Type B, 0.1 Mi., 8 ft. wide, asphalt surface, 5% grade.

73) SHRINER PEAK TRAIL, Type B, 4.2 Mi., 4 ft. wide, natural surface, 10 to 15% grade.

71) COWLITZ DIVIDE TRAIL, Type B, 4.3 Mi., 2 to 4 ft. wide, natural surface, 10% grade.

72) SILVER FALLS LOOP TRAIL, Type B, 2.7 Mi., 6 ft. wide, natural surface, 5 to 10% grade.

59) NACHES LOOP TRAIL, Type B, 1.4 Mi., 4 ft. wide, natural surface, 5 to 10% grade.

CARBON RIVER AREA TRAILS

74) NORTHERN LOOP TRAIL, Type B, 17 Mi., 2 to 6 ft. wide, natural surface, 5 to 15% grade.

17) SPRAY PARK/SEATTLE PARK TRAIL, Type B, 8.0 Mi., 3 to 6 ft. wide, gravel and natural surface, 5 to 15% grade.

18) TOLMIE PEAK TRAIL, Type B, 1.8 Mi., 3 to 6 ft. wide, natural surface, 10% grade.

41) RAIN FOREST LOOP TRAIL, Type B, 0.3 Mi., 4 to 6 ft. wide, natural surface, 0% grade.

16) CHENUIS FALLS TRAIL, Type B, 0.2 Mi., 2 to 4 ft. wide, natural surface, 0 to 5% grade.

15) GREEN LAKE TRAIL, Type B, 1.8 Mi., 4 to 6 ft. wide, natural surface, 10% grade.

14) PAUL PEAK TRAIL, Type B, 3.1 Mi., 3 to 6 ft. wide, natural surface, 10% grade.

WHITE RIVER AREA TRAILS

PET EXERCISE LOOP(SUNRISE), Type B, 0.3 Mi., 2 to 4 ft.
wide, natural surface, 5 to 10 % grade.
Mt. Rainier National Park Trail Information

60) SILVER FOREST TRAIL, Type B, 0.8 Mi., 4 to 6 ft. wide,
natural surface, 5% grade.

52) BURROUGHS MT. TRAIL, Type B, 3.5 Mi., 4 to 6 ft. wide,
natural surface, 10% grade.

80) SOURDOUGH RIDGE TRAIL, Type B, 4.0 Mi., 4 to 8 ft. wide,
natural surface, 5 to 10% grade.

76) SUNRISE RIM TRAIL, Type B, 0.5 Mi., 4 to 6 ft. wide,
natural surface, 5% grade.

54) MOUNT FREMONT TRAIL, Type B, 1.3 Mi., 4 to 6 ft. wide,
natural surface, 0 to 10% grade.

75) BURROUGHS MT./GLACIER BASIN TRAIL, Type B, 2.8 Mi., 2 to
6 ft. wide, natural surface, 10% grade.

63) PALISADES LAKE TRAIL, Type B, 3.6 Mi., 2 to 4 ft. wide,
natural surface, 0 to 10% grade.

58) HIDDEN LAKE TRAIL, Type B, 0.6 Mi., 2 to 4 ft. wide,
natural surface, 20% grade.

79) TIPSOO LAKE TRAILS, Type B, 1.0 Mi., 4 to 6 ft. wide,
gravel and natural surface, 0 to 5% grade.

53) CRYSTAL LAKES TRAIL, Type B, 3.2 Mi., 2 to 4 ft. wide,
natural surface, 10% grade.

55) GLACIER BASIN TRAIL, Type B, 3.1 Mi., 4 to 6 ft. wide,
natural surface, 5 to 10% grade.

77) EMMONS MORaine TRAIL, Type B, 0.5 Mi., 2 to 4 ft. wide,
natural surface, 10% grade.

56) LAKE ELEANOR TRAIL, Type B, 3.3 Mi., 1 to 4 ft. wide,
natural surface, 0 to 10% grade.

57) HUCKLEBERRY CREEK TRAIL, Type B, 8.0 Mi. 2 to 4 ft. wide,
natural surface, 10% grade.

WONDERLAND TRAIL 14 SECTIONS

- 30)1. LONGMIRE TO INDIAN HENRY'S, Type B, 6.8 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 31)2. INDIAN HENRY'S TO EMERALD RIDGE, Type B, 3.8 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 32)3. EMERALD RIDGE TO Klapatche Park, Type B, 5.5 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 33)4. Klapatche Park to Golden Lakes, Type B, 7.8 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 34)5. GOLDEN LAKES TO Mowich Lake, Type B, 10 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 35)6. Mowich Lake to Ipsut Creek, Type B, 5.1 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 36)7. IPSUT CREEK TO MYSTIC LAKE, Type B, 7.1 Mi., 4 ft. wide, natural surface, 10% grade.
- 37)8. MYSTIC LAKE TO SUNRISE, Type B, 8.7 Mi., 4 ft. wide, natural surface, 10% grade.
- 64)9. SUNRISE TO WHITE RIVER C.G. Type B, 4.0 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 65)10. WHITE RIVER C.G. TO SUMMERLAND, Type B, 5.1 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 66)11. SUMMERLAND TO INDIAN BAR, Type B, 4.5 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 67)12. INDIAN BAR TO BOX CANYON, Type B, 7.5 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 28)13. BOX CANYON TO REFLECTION LAKES, Type B, 7.1 Mi., 2 to 4 ft. wide, natural surface, 10% grade.
- 29)14. REFLECTION LAKES TO LONGMIRE, Type B, 5.5 Mi., 2 to 4 ft. wide, natural surface, 10% grade.

WAY TRAILS

The following is a list of Way Trails whose presence is believed to have some impact on visitor use patterns. All Way Trails are Type C and have natural surfacing. These trails have not been inventoried for length, width, grade, etc. so the related information is best guesstimates.

1W) NISQUALLY BOUNDARY, 3.0 Mi., steep grade.

10W) PYRAMID PEAK, 1.5 Mi., moderate to steep grade.

5W) TATOOSH TRAVERSE, 2.0 Mi., moderate to steep grade.

7W) BOUNDARY TRAIL CARBON RIVER, 12 Mi., moderate to steep grade, 2 to 4 ft. wide.

8W) GRINDSTONE TRAIL, 2.0 Mi., moderate grade, 2 to 4 ft. wide.

9W) KNAPSACK PASS TRAIL, 1.5 Mi., moderate to steep grade, 2 ft. wide.

18W) ECHO/OBSERVATION ROCK TRAIL, 1 Mi., moderate grade, 2 ft. wide.

13W) TOKALOO TRAIL, 3 Mi., moderate to steep grade.

14W) CHAMPION ACCESS TRAIL, 1 Mi., low to moderate grade.

19W) LOWER CURTIS RIDGE, 2 Mi., moderate grade.

26W) BACKBONE RIDGE TRAILS, 7 Mi., moderate grade, 2 to 4 ft. wide.

✓21W) WEST FORK TRAIL, 2 Mi., low grade, 2 to 4 ft. wide.

22W) ELEANOR CREEK TRAIL, 1 Mi., low to moderate grade, 2 to 4 ft. wide.

23W) INDEPENDENCE RIDGE TRAIL, 2.0 Mi., low to moderate grade, 2 to 4 ft. wide.

20W) THIRD BURROUGHS TRAIL, 1.5 Mi., moderate grade.

27W) DEADWOOD LAKES, 1.0 Mi., moderate to steep grade.

24W) NATURAL BRIDGE TRAIL, 0.25 Mi., 10 to 20% grade, 2 to 4 ft. wide.

25W) SOUTHEAST BOUNDARY TRAIL, 7 Mi.