

FIGURE 10. ATTITUDE TO MANAGEMENT RESPONSES IN SUMMARY SCALE STRUCTURE.

kayakers with these extreme attitudes indicated higher levels of extreme agreement with manipulating use conditions (74% *vs* 34%). Female kayakers with these extreme attitudes indicated higher levels of extreme agreement with increasing accommodation options (60% *vs* 40%).

Overall, these exploratory results indicate that crowded kayakers appeared to agree more often with most types of management options. New Zealand kayakers appeared to agree more with facility development options while overseas kayakers appeared to agree more with manipulating use conditions. While only exploratory findings, these results suggest the areas where differences between different visitor groupings are most likely to occur.

6.2 RELATING MANAGEMENT PREFERENCE SCALES TO OVERALL TRIP EVALUATIONS

There were no significant links between the overall visit evaluations (e.g., satisfaction and crowding), and any scales of the attitudes towards management options. These results suggest that preferences for different management options were unaffected by any experiences on the track visit.

7. Summary and discussion

7.1 OVERALL VISIT EVALUATIONS

Overall levels of dissatisfaction were negligible, and most kayakers considered the experience exceeded their expectations. However, perceptions of crowding were high, and many kayakers indicated they saw more others than they expected. Campsites in general appeared a particular focus for such perceptions. These findings suggest that while sea-kayaking could be considered a relatively low level and dispersed activity compared with walking on a Great Walk, perceptions of crowding are similar. Such a finding indicates that assessments of visit quality based on absolute crowding levels may be deceptive if the nature of different activity-experiences and expectations are not taken into account. Clearly some definition of what those different activity experiences and expectations might be will be important in interpreting any overall visit evaluations. While the overall satisfaction and expectation findings suggest the kayakers surveyed had high quality visit experiences overall, the survey results on crowding and use-level expectations indicate there are some major issues related to visitor use-levels and patterns in the Abel Tasman National Park in general, and how these interact with kayaking visitors in particular.

Some caution is required when interpreting the overall satisfaction findings in particular, as most kayakers surveyed were on a first visit. There is a tendency for such visitors to give approval to the status-quo of social and environmental conditions they experience on a visit. They usually lack previous experience of the site and any strong expectations as to what might constitute the appropriate and acceptable conditions which occur there. In a situation of changing use conditions over time, the overall satisfactions of such visitors can remain consistently high despite considerable changes in visit experiences. Those firsttime visitors with strong but inaccurate expectations of social and physical conditions, or repeat-visitors with expectations based on previous conditions, are those most likely to indicate overall dissatisfaction or greater perceptions of crowding. These visitors types are, therefore, the most likely to be displaced to different sites, times, or activities, and are also more likely to give negative feedback about their experiences to others. Other visitors may recognise that elements of the visit-experience may not be what they would prefer, but are prepared to rationalise some of their preferences and evaluations in the interests of an enjoyable overall visit.

All these considerations suggest that reliance on overall satisfaction measures such as a monitor of visit-experience quality can be misplaced. However, should considerable levels of dissatisfaction feature in such measures, it is likely that major problems are already well-established. While dissatisfaction results were not evident in the survey, relatively high crowding scores and use-level expectations suggest that for these experiences of sea kayaking, some compromises to the quality of visit experiences were occurring. Overall, evaluation approaches based upon crowding interpretations appear more sensitive to problems or differences in visit conditions than are overall satisfaction interpretations.

7.2 SATISFACTION WITH FACILITIES AND SERVICES

Survey results revealed no notable levels of dissatisfaction for any of the facilities and services used for kayaking in Abel Tasman National Park, and none of these specific satisfactions were linked to any of the overall evaluations of the visit experience. The high satisfactions across all the facility and service types indicated a lack of any specific visitor problems with management infrastructure, and suggested there were no immediate needs for management interventions beyond normal maintenance. The only concerns which may possibly require some consideration related to dissatisfactions with campsite toilets and water supplies, although these were only minor sources of dissatisfaction (around 15%). They do not appear to warrant high priority on the basis of satisfaction levels alone. Many kayakers (27%) also indicated dissatisfaction with campsite rain-shelters, although this may represent dissatisfaction that such facilities were not provided rather than indicating problems with any existing facilities. Such a conclusion is supported by the many other kayakers (41%) who were neutral in their satisfaction with rainshelters. The contribution such facilities could make to kayaker experiences may need to be evaluated if any opportunity to make further facility and service improvements arises.

Many kayakers surveyed were neutral rather than positive in their satisfactions with the information and advice received from wardens and visitor centres. This may indicate a need to assess the role and effectiveness of staff-based information services for sea-kayak visitors, particularly as they generally do not use staffed huts, and access the knowledge and equipment required for their visit through commercial recreation providers rather than public information agencies. If resources are allocated to visitor information for sea-kayakers, specific attention to the means of providing this information will be required.

Overall, levels of satisfaction with facilities and services were high. Any dissatisfactions that did occur were generally related to campsite use. It appears that campsite use may represent the first area where compromises to the quality of visit experiences may occur if use-pressures increase. If improvements to information services for kayakers are accorded a greater management priority, the role of information services provided directly by staff in visitor centres and in the field should be addressed.

7.3 PERCEPTIONS OF IMPACTS

Many of the kayakers surveyed were bothered by social impacts, particularly those related to motorboat use, campsite congestion, and general perceptions of activity congestion during the day. Kayakers were highly aware of disturbance by motorboats on the water (74%), and most were bothered by this (53%). Disturbance by motorboats at huts and campsites was also prominent, being noticed by 55% of visitors of whom most (34%) were bothered by it. Other social impacts related to seeing too many others at campsites, seeing too many kayakers on the water, and seeing too many big groups were also noticed by

many kayakers, although tolerance for these impacts appeared higher. While 67% of kayakers indicated they were seeing too many other kayakers during the day, only 19% indicated they were bothered by it. Similarly, while 49% of kayakers indicated they were aware of over-development of campsites, only 5% were bothered by it. Understanding the distinction between simply noticing these impacts and being specifically bothered by them appears an important research issue. Taking this distinction into account, it is clear that the most strongly negative social impact perceptions related to motorboat activity.

Many kayakers were also bothered by perceptions of physical impacts, particularly related to uncertain water hygiene, water and toilet facilities, and littering. Perceptions of uncertain water hygiene were most negative, bothering 59% of kayakers, although it was not apparent that this perception represented any actual conditions experienced on the visit. Other issues related to hygiene were also apparent from perceptions of insufficient toilets and water supply. Around half the kayakers perceived these as being insufficient, although only around 25% were bothered by it. Fewer indicated they noticed toilet/paper and waste (33%), although most of those who did (28%) were bothered by it.

Litter also appeared to be an issue, with around 50% of those surveyed noticing litter at campsites and on the water/at beaches in particular, and over 40% being bothered by each. In general, kayakers appeared to have very little tolerance for particular types of impacts which very visibly represented inappropriate behaviour (e.g., seeing litter, toilet paper/waste, and wood cutting). These results suggest particular visitor sensitivity to such 'inappropriate' littering or physical damage behaviour in natural settings. Given the high incidence of littering perceptions in some situations, it appears that there is a litter management problem to address, although these perceptions were not linked in any way to trip evaluations.

While overall impact perceptions identified a variety of social and physical impact issues, variation in the impact perceptions of different groupings highlighted social impact issues relating to crowding perceptions and a gender and age-group interaction. The crowded kayakers particularly emphasised social conditions related to seeing too many others at campsites and on the water, and physical conditions related to perceived inadequacies of water supplies. Older male kayakers emphasised the more negative impacts of perceived overdevelopment of huts and signs.

Overall, the negative perceptions of campsite/social congestion impacts were high, and were linked with greater perceptions of crowding. If crowding perceptions increase in future, it is likely that compromises to the quality of visit-experiences will be first apparent from perceptions of social impacts, particularly related to campsite congestion and disturbance by motorboat activity. Perceptions of water, toilet and hygiene impacts were also higher among crowded kayakers. However, the lack of any link between higher perceptions of these impacts and higher crowding scores suggests that these perceptions may not necessarily increase should use pressures grow. In this respect they are unlike the social congestion impacts, which are more clearly linked to higher crowding perceptions. However, perceptions of water and toilet conditions, littering and waste will be important ongoing issues for management concern. Water supply appears a particular issue where visitor

perceptions indicate further improvements could be made. The generally negative perceptions of water hygiene and the relationships of these perceptions to other water, toilet and littering impacts may require some investigation.

7.4 ATTITUDES TOWARD MANAGEMENT OPTIONS

When considering management options for addressing future increases in use-levels, most kayakers surveyed were highly positive toward information management. That is, the strategic use of information to better match kayaker expectations with likely experiences, and to give prospective kayakers a better basis upon which to choose visit timing and a location that suits their preferred visit experiences. This may be a particularly important component of any general improvements undertaken in visitor information services. These results indicated clearly that such information management approaches were considered most preferable among all types of kayakers. The main question this poses for managers is whether such information management approaches represent an effective tool of practical value. This is an area where additional investigation should be encouraged, as it offers the possibility of developing management approaches with high visitor (and public) support.

The only other management options attracting similarly high support from kayakers were those promoting alternative trip options, and those controlling motorboat access. The strongly positive response of kayakers toward controls on motorboats gives a strong signal that there are conflict issues between kayakers and motorboat users. This issue also extends to the activities of water taxis, toward which kayakers also predominantly favoured controls. These results do not identify what such conflict issues may be, and this represents an area which may require attention in any future research.

By contrast, most kayakers surveyed were highly opposed to other management options related to discouraging use through facility removal, development of huts, encouraging camping by greater freedom to camp on any beaches, having campsite booking systems, or making peak times more expensive. The strength of apparent opposition to these approaches indicates that considerable background research would be required (as would ongoing consultation with visitor-groups), before any of them could be implemented ahead of the more acceptable information-based options. This conclusion could equally apply to the other management options over which kayakers were generally split either for or against. Such options included more campsite facilities, hut booking systems, increased guided opportunities, using separate huts/campsites, permit systems, and cheaper alternative options.

While no significant differences were identified between different groupings, additional exploration of extreme positive and negative results indicated that crowded kayakers were less negative than uncrowded kayakers toward most management options, overseas kayakers were less negative than New Zealand kayakers toward manipulating use conditions, and New Zealand kayakers were less negative than overseas kayakers toward developments to increase accommodation options. These exploratory findings suggest there may be

important differences in kayaker attitudes toward different management options, between these different visitor groups. These distinctions may highlight the more 'management-resistant' sectors among the visitor-groupings, and identify some visitor-groupings where the negative attitudes towards some management options are more variable. However, no conclusive statements can be made with these data, and additional investigations will be required if it is considered important to identify these distinctions.

7.5 CONCLUSIONS AND RECOMMENDATIONS

Perceptions of physical impacts related to litter, toilets, water supply, and perceived water hygiene identified in this survey indicate there are some physical conditions which will require management action. However, these conditions did not substantially compromise visit-experiences. On the basis of maintaining the quality of visit-experiences, these conditions do not represent urgent problems which require immediate management attention beyond normal maintenance processes. Some attention to enhancing water supplies at campsites, providing information about water hygiene conditions, and investigating litter issues at beaches and campsites appeared to be the only notable issues.

While there were no urgent needs for immediate management actions to address these physical setting issues, other responses did indicate that there were social impact issues related to conflict perceptions with motorboats, campsite congestion and general perceptions of crowding. Most kayakers who perceived disturbance by motorboats were bothered by it. Most of those who perceived the other social congestion impacts were largely tolerant of them. However, the results linking crowding with perceptions of social/campsite congestion indicated some of these evaluations would be becoming more negative at higher use-levels. It appears that perceptions of seeing too many people at campsites will the most useful condition to monitor.

Overall, these results indicate that preventative actions to minimise future compromises to the quality of visit-experiences will need to be considered, particularly with regard to conflicts with motorboats, and campsite conditions, but that these were not critical at the time of the survey. If management control is required, kayakers indicated a preference for actions to be based most upon information use to guide visitor choices, rather than any more direct regulation/manipulation approaches to limit or channel visitor opportunities. Initially, some development of long-term information approaches could be undertaken, as stringent controls did not appear essential as yet. Kayakers did indicate they would favour controls on motorboat activity.

In summary, the main management actions which could be undertaken include:

- Identifying any physical impact 'hot-spots' related to campsite or beach littering, and initiating any additional problem-solving management beyond normal maintenance processes to reduce the scale of any notable problems
- Within any ongoing maintenance programmes, review the status of water supplies at campsites, and taking any actions required to improve these

- Providing information on water hygiene, including some pre-visit information approaches
- Provision of general information about the features of sea-kayaking in Abel Tasman National Park, and for planning visits to it (maybe co-operatively with commercial recreation providers)
- Provision of information approaches which forecast kayaker and other visitor numbers and campsite loadings in advance; indicate where and at what times on-track 'bottlenecks' are most likely; outline what alternative trip patterns may be followed; indicate where motorboat activity may be concentrated; and provide general suggestions on visit timing and organisation to minimise any 'crowded' or 'conflict' visit experiences.

Most initial gains should be made by concentrating on making whatever simple improvements are possible in the use of campsites, and reducing any littering 'hot-spots'. This may involve initiating investigations of visitor preferences for the standards of campsite facilities, services and expected visit experiences. Such information options require generating behavioural change among the visitors rather than the physical changes to the visit setting. This may relate to kayakers, track users, and motorboat users, and require investigation of what issues define the conflict that kayakers perceive with motorboat users. Promoting beneficial behavioural changes through information use in this way represents a more long term approach, will be based largely on pre-visit information, and may require greater involvement with external agencies. Any consideration of these approaches will require additional investigations in a number of areas to assess the potential effectiveness of information use as a practical management tool. As contact opportunities with kayakers are relatively limited, the role of visitor centre and hut-based staff in directly communicating information to kayakers may also require specific attention.

More regulatory management options were not highly favoured, and do not appear to be necessary in the short term. However, given the possibility of such options being considered in the future, additional investigations should be encouraged to explore the reasons for the largely negative attitudes toward management options, and the extent to which perceived freedom from external controls is an element of preferred recreation experiences. Because of the low levels of crowding and impact perception, such investigations need not be carried out specifically in relation to kayakers in Abel Tasman National Park, although the issues related to boat-use are clearly more unique to this park.

Monitoring of the quality of visit experiences should not rely on overall visit satisfaction scores. Crowding scores offer a more sensitive overall measure, although account must be taken of the different visit experiences represented by sea-kayaking. This distinction may also be an important topic for wider research investigation. Any specific monitoring of visit-experience quality should concentrate first upon campsite congestion conditions at key sites, and conflict perceptions with motorboats. Some additional investigation of the different kayak trip patterns around Abel Tasman National Park may be appropriate. Any monitoring should address wider elements of campsite congestion conditions, including the use of campsites by different types of groups (including walkers and boat-based groups).

Appendix 1

Summary of sea-kayak questionnaire responses (n = 210)

This presents the basic response percentages for the questions asked in the survey. These percentages are presented in the format of the original questionnaire, although some lists of responses are attached where their format is incompatible with this approach. Where appropriate, some distinction is also made between the responses of hut and campsite users (at least 1 night).

ATTACHED QUESTIONNAIRE RESPONSES

These responses are presented here as they are do not fit the questionnaire format used for this appendix.

A. Question 1. Nationality breakdown

NATIONALITY	NO'S	%	
New Zealand	117	56	
Germany	24	11	
Great Britain	13	6	
United States	22	10	
Australia	9	4	
Switzerland	3	1	
Netherlands	4	2	
Canada	12	6	
Denmark	0	0	
Israel	0	0	
Japan	0	0	
Other Europe (Sweden)	4	2	
Other Asia	0	0	
Other (South Africa)	2	1	

B. Question 1. Nights on trip and at huts/camps

(i) Trip Duration

No. of nights on kayaking trip

	1 nights	2 nights	3 nights	4 nights	5+ nights
% trips	9	23	13	46	9
of this d	luration				

(ii) Nights at Huts and/or Campsites

Overnight accommodation

	Huts	Hut &	Multiple	Camps	Camps
	only	1 camp	huts/camps	& 1 hut	only
% trips	1	2	3	7	87

C. Question 3. Locations of crowding focus

Overall, (82%) of visitors (n = 169) considered some places on the visit were more crowded than others. They were asked to indicate in general terms whether this occurred in huts, at campsites, on the track or elsewhere, and then relative to these, specifically where. These specific responses are summarised here. Note that multiple responses were allowed for.

Huts - 59 specified huts as a focus of crowding (35% of 169). Of these, the specific focus responses highlighted the following main sites:

54% — Anchorage Hut 18% - Bark Bay Hut

Campsites — 94 specified campsites as a focus of crowding (56% of 169). Of these, the specific focus responses highlighted the following main sites:

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36% — All campsites used 20% — Anchorage Hut area campsites 13% — Te Pukatea Bay campsite 12% — Bark Bay Hut area campsites
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On the water -13 specified areas on the water as a focus of crowding (8% of 169).

Other — 27 specified 'other' areas as focus of crowding (16% of 169). Of these, no particular areas were prominent.

Appendix 2

Details of sea-kayak principal components analysis

Principal Component Analysis (PCA) was carried out upon selected subsets of response-list items from 210 respondents to the Abel Tasman Sea Kayak sample from the Great Walks survey. These subsets related to response lists for visitor perceptions of impacts (Q. 5), visitor satisfactions (Q. 7), and visitor preferences for possible management responses (Q. 8) to increasing visitor numbers. The PCA defined a reduced number of summary scales which could then be used for more complex analytical procedures. The following material describes the summary scales, and demonstrates the degree to which they are representative of their component variables. Items were included in the scale if their removal reduced the value of the scale reliability co-efficient (Kronbachs alpha).

SATISFACTION SCALES (from Question 7)

SCALE NAME (and description)	RELIABILITY (Kronbachs Alpha)	COMPONENT LIST VARIABLES (from original questionnaire Q. 7 lists)	LOADINGS (from PCA)
Hut conditions	0.9400	Hut cooking space/facilities	0.842
		Hut washing up space/facilities	0.828
		Hut lighting facilities	0.816
		Hut drying space/facilities	0.812
		Hut heating facilities	0.768
		Space to relax in huts	0.757
		Number of bunks in huts	0.743
		Water supply at huts	0.602
		Toilets at huts	0.565
Track conditions	0.9326	Gentle slopes/not steep	0.888
		Smooth/easy surfaces	0.871
		Steps	0.823
		Drainage of water	0.816
		Boardwalks over wet/fragile areas	0.778
		Bridges over rivers	0.773
		Track marking	0.598
Information	0.8836	Material from visitor centres	0.868
services		Advice from visitor centres	0.857
		Quality of maps/brochures	0.769
		Advice from wardens	0.510
Sign facilities	0.7506	Distance/time signs	0.684
		Information signs by the track	0.626
		Maps/brochures in the huts	0.427
Camp facilities	0.8251	Rain shelters at campsites	0.815
		Camp cooking space/facilities	0.802
		Camp washing up space/facilities	0.752
Camp water/toilet	0.6716	Toilets at campsites	0.780
		Water supply at campsites	0.729

IMPACT PERCEPTION SCALES (from Question 5)

SCALE NAME (and description)	RELIABILITY (Kronbachs Alpha)	COMPONENT LIST VARIABLES (from original questionnaire lists)	LOADINGS (from PCA)
Physical impacts	0.8445	Litter around hut	0.762
		Seeing shortcuts off tracks	0.718
		Seeing trampling around wet areas	0.713
		Litter on track	0.687
		Seeing human waste/toilet paper	0.684
		Litter around campsites	0.623
		Litter on beaches/in water	0.536
		Seeing where campsites have formed	0.520
		Seeing where wood cut for fires	0.513
Hut congestion	0.7814	Having to rush for bunk in huts	0.805
		Too many people in hut	0.801
		Insufficient bunk space in huts	0.738
		Noisy people in huts at night	0.727
Toilet/water/	0.6461	Inadequate toilet facilities	0.754
hygiene		Inadequate water supply	0.717
		Uncertainty in water hygiene	0.590
Over-	0.8432	Too much development of huts	0.823
development		Too much development of signs	0.803
		Too much development of tracks	0.772
		Too much development of campsites	0.510
Camp/Social	0.7320	Too many others at campsites	0.784
congestion		Seeing too many on the water each day	0.724
-		Having to rush for campsite space	0.586
		Seeing too many big groups of people	0.583
		Plane noise	0.493
		Noisy people at campsites	0.311
Boat disturbance	0.6782	Boat disturbance at beaches	0.776
		Boat disturbance to huts/camps	0.693
		Seeing people on guided trips of track	0.634

MANAGEMENT PREFERENCE SCALES (from Question 8)

COLLE MANG	DELL DILLES	COMPONENT ANGENA DA PARE	LOADINGS
SCALE NAME	RELIABILITY	COMPONENT LIST VARIABLES	LOADINGS
(and description)	(Kronbachs Alpha)	(from original questionnaire lists)	(from PCA)
Rationing/	0.8115	Bookings for spaces at campsites	0.847
use limits	-	Bookings for bunks in huts	0.813
		Require permits, and limit these	0.730
		Make peak use times more expensive	0.432
Information	0.9045	Provide inf. on different track options	0.890
management		Provide inf. on crowding conditions	0.872
		Provide inf. on physical impacts	0.869
		Provide inf. on social impacts	0.856
Increase	0.7373	Provide more campsite/camping facilities	0.755
accommodation		Build more huts	0.718
		Provide more bunks in huts	0.659
		Provide more alternative tracks	0.573
		Allow more guided trips/facilities	0.562
		Increase freedom for camping on beaches	0.529
Manipulate use	0.5784	Limit water taxi access	0.728
F		Encourage small groups/discourage large	0.648
		Limit boat access	0.561
		Make other track options cheaper	0.492
		Remove some facilities to discourage use	0.320

Appendix 3

Details of sea-kayak crowding scores

Crowding was assessed using a widely used nine-point crowding scale (Question 2), and Table A3.1 presents the responses from sea-kayak visitors.

TABLE A3.1. KEPLER TRACK CROWDING SCORES.

DEGREE OF CROWDING	TOTAL %	
	(scores)	(n=210)
NOT CROWDED	(1)	20
	(2)	14
	(3)	17
CROWDED — slightly	(4)	8
·	(5)	9
CROWDED — moderately	(6)	16
·	(7)	8
CROWDED — extremely	(8)	6
	(9)	2

Shelby *et al.* (1989)¹ summarised and evaluated the accumulated results from this method, and developed an interpretation method to highlight the management significance of these responses. These interpretations, which can be considered carrying capacity judgements related to the quality of visitor experiences, apply to the crowded respondents (e.g., those scoring 3 or more). Table A3.1 shows that the proportion of crowded visitors on the Sea Kayak trips was 58%.

Table A3.2 (below) presents a range of results from the other Great Walks and from studies summarised by Shelby *et al.*. (1989). Accompanying these results are the interpretations applied to different crowding scores. The interpretation of 58% crowding among sea-kayak visitors is that use is at high normal conditions, and that research and other investigations are needed to allow management actions to prevent future congestion problems. It is considered that now is the best time to take such actions, before conditions have deteriorated to a more serious state. Time appears available, because at 58%, crowding scores are still below the 65% level. Above 65% they could be interpreted as being more than capacity. These interpretations represent informed, but subjective, guidelines based upon extensive accumulated knowledge.

¹ Shelby, B., Vaske, J.J., Heberlein, T.A. 1989. Comparative analysis of crowding in multiple locations: Results of 15 years of research. *Leisure Sciences* 11: 269–291.

Comparing the Great Walk crowding scores in Table A3.2 and Figure A3.1 (next pages) indicates that crowding is excessively high among sea-kayak visitors, considering the dispersed nature of their activity. While preventative management to minimise effects from increasing use should be considered now before more negative effects become established, more urgent attention may be required first on some of the other tracks.

TABLE A3.2 DIFFERENT LEVELS OF 'CROWDED' RESPONSES. (AFTER SHELBY ET AL. 1989)

CROWD (%)	POPULATION	RESOURCE	STATE OR COUNTRY	RESOURCE CONDITIONS	CARRYING CAPACITY JUDGEMENT
100	Boaters	Deschutes River	Oregon	Weekends section 1	Much more than capacity
94	Anglers	Colorado River	Arizona	Thanksgiving weekend	(80 - 100%)
91	Boaters	Raystown Lake	Pennsylvania	On the lake	Manage for high density recreation
89	Pheasant hunters	Bong Hunting Area	Wisconsin	Opening day	experiences, or treat as a 'sacrifice area',
88	Boaters	Deschutes River	Oregon	Weekdays section 1	allowing quantity of activity to compromise
87	Riparian landowners	Lake Delavan	Wisconsin	Overall rating	quality of experiences. Could be a localised
86	Goose hunters	Grand River Marsh	Wisconsin	Firing line	compromise to reduce pressure on other areas.
85	Pheasant hunters	Public Hunting Area	Wisconsin	Opening day	
* 76 *	Walkers (GW)	Routeburn Track	New Zealand	Summer	More than capacity
76	Trout anglers	Gun Powder River	Maryland	Opening day	(65 - 80%)
75	Salmon anglers	Waimakariri River	New Zealand	At river mouth	Studies and management are necessary to
75	Boaters	Raystown Lake	Pennsylvania	At attraction sites	preserve recreation experiences, especially if
74	Salmon anglers	Rakaia River	New Zealand	At river mouth	low visitor impacts (social/physical) are
73	Canoers and boaters	Boundary Waters C.A.	Minnesota	Moose Lake	important components. Immediate
72	Rafters	Grand Canyon	Arizona	1985 Summer	management to control use-levels at around
70	Anglers	Klamath River	California		65% level of crowding conditions may be
70	Climbers	Mt. McKinley	Alaska		considered as an option. Research may be
* 69 *	Walkers (GW)	Abel Tasman Track	New Zealand	Summer	needed to establish more long-term solutions.
69	Boaters	Door Country	Wisconsin		
* 68 *	Walkers (GW)	Tongariro Crossing	New Zealand	Summer (Easter 86%)	
68	Rafters	Rogue River	Oregon		
68	Rock climbers	Seneca Rocks	West Virginia		
66	Boaters	Raystown Lake	Pennsylvania	At put-in location	
* 63 *	Walkers (GW)	Kepler Track	New Zealand	Summer (Easter 86%)	High normal conditions
63	Boaters	Raystown Lake	Pennsylvania	At take-out location	(50 - 65%)
* 62 *	Walkers (GW)	Milford Track	New Zealand	Summer	Should be studied if increased use is expected,
62	Deer hunters	Sandhill	Wisconsin	1988 High-density hunt	allowing management to anticipate problems.
61	Goose hunters	Fishing Bay	Maryland	Firing line	Represents the best time to establish more
61	Floaters	Wolf River	Wisconsin		long-term management, as once higher
59	Salmon anglers	Rakaia River	New Zealand	All anglers	crowding perceptions exist, there is difficulty
* 58 *	Sea Kayakers (GW)	Abel Tasman Coast	New Zealand	Summer	in managing use 'down' to levels more

* 55 *	Walkers (GW)	Heaphy Track	New Zealand	Summer (Easter 71%)	appropriate for the main recreation
55	Wildlife photographers	Sandhill	Wisconsin		experiences desired.
54	Recreationists	Lake Delavan	Wisconsin	One-day visit	
53	Anglers	Brule River	Wisconsin	1975	
53	Rafters	Grand Canyon	Arizona	1985 Winter	
53	Rafters	Snake River	Oregon	In Hell's Canyon	
53	Backpackers	Mt. Jefferson	Oregon		
52	Canoers	Brule River	Wisconsin	High-use period	
50	Deer hunters	Sandhill	Wisconsin	1982 High-density hunt	Low Normal Conditions
49	Backpackers	Eagle Cap Wilderness	Oregon		(35 - 50%)
48	Pheasant hunters	Bong Hunting Area	Wisconsin	Late season	A problem situation does not exist at this time.
46	Deer hunters	Statewide	Wisconsin	No specific resource	As with the above category, these may offer
45	Salmon anglers	Rakaia River	New Zealand	Upstream	unique low-density recreation experiences.
44	Turkey hunters	Statewide	Maryland	No specific resource	These are likely to change with any increase
43	Tubers	Brule River	Wisconsin		in social or physical impacts resulting from
* 43 *	Walkers (GW)	Travers-Sabine Track	New Zealand	Summer	increasing numbers of users, or from changes
* 42 *	Canoeists (GW)	Wanganui River	New Zealand	Summer	in activity types.
* 42 *	Walkers (GW)	Waikaremoana Track	New Zealand	Summer	
42	Sailboaters	Apostle Islands	Wisconsin	Summer 1985	
41	Tourists and drivers	Stockings Park	Michigan	Presidential Range	
39	Backpackers	White Mt. Nat.Forest	New Hampshire		
38	Floaters	Klamath River	California	1985 Low-use period	
37	Canoers	Brule River	Wisconsin		
* 35 *	Walkers (GW)	Rakiura Track	New Zealand	Summer	Suppressed Crowding
32	Anglers	Colorado River	Arizona	Midweek	(0 - 35%)
31	Hikers	Dolly Sods Wilderness	West Virginia	Low-use period	Crowding here is limited by certain
27	Goose hunters	Tuckahoe State Park	Maryland	Low-density hunt	management or situational factors, which
26	Rafters	Illinois River	Oregon		allow particular low-density recreational
25	Trout anglers	Savage River	Maryland	Low use period	experiences. These are likely to be unique,
24	Backpackers	Great Gulf Wilderness	New Hampshire	Low use period	and managers should be concerned with
24	Deer hunters	Sandhill	Wisconsin	1982 Low-density hunt	maintaining them. Changes likely to increase
23	Trout anglers	Gundpowder River	Maryland	Late season	visitor numbers/impacts should be considered
20	Canoeists	Whanganui River	New Zealand	Summer (Easter 68%)	carefully.
17	Goose hunters	Grand River	Wisconsin	Managed hunt	
12	Deer hunters	Sandhill	Wisconsin	1988 Low-density hunt	

^{* *} and bold type identify the crowding responses for the tracks included in New Zealand's Great Walks.