

Section 13

Future research

13.1 Future demand studies

The SEQORDS should be repeated in the next 5-7 years. The SEQORDS survey instrument should remain the same. Particular aspects need to be noted to ensure the continued or improved reliability of the survey. These include:

1. The survey question format should mirror the 2007 survey format.
2. Survey questions in the next SEQORDS should be exactly the same as previous studies.
3. Age groups should conform to the 1997 and 2001 SEQORDS.
4. The confidence interval for the whole sample of the next SEQORDS should not exceed the value obtained in 2007 survey.
5. The inclusion of mobile phone numbers within the next SEQORDS is needed.
6. Within the SEQORDS survey questions maintain the descriptions of settings to ensure validity between the SEQORDS.
7. Include a question on the interviewees' socio-economic status.
8. Inclusion of a question to determine the reasons for non-participation of those people who do not want to participate in outdoor recreation is needed.

13.2 Other research

There are a number of other research questions that have come to light during the course of the Trends Analysis. These include:

1. How will climate change impact on outdoor recreation activities in SEQ?
2. How does socio economic status relate to participation within the additional variables of gender, age, constraints, settings and motivation (climate change?)
3. How do participants' locations of outdoor recreation activity relate to formal recreation settings and landscape settings classification schemes?
4. How does different land tenure spatially relate to formal recreation settings and landscape settings classification schemes?
5. How does outdoor recreation fit within the weekly, monthly, and yearly time budgets of participants' leisure?
6. How are participation rates and frequency of participation affected by the combination of increasing fuel prices, congestion and diminishing opportunities to undertake recreation due to urban development?
7. How have changes in outdoor recreation participation affected the health of the population in SEQ?
8. What are the reasons participants give that explains the increases or decreases in certain activities as identified in the SEQORDS?
9. What is the difference between resident verses tourist participation in outdoor activities?
10. What effects do unregulated outdoor recreation activities have on the social and natural environment?
11. How important is driving within a participant's outdoor recreation activity in relation to participation and frequency rates, setting use and preference.
12. What mechanisms exist for the management of new and evolving technologically based outdoor recreation activities in various land tenures (for example jet skis, kite surfing, trail-bike riding, mountain biking, sport climbing etc).

Section 14

Conclusion

In this study a detailed examination of trends noted in the 2007 SEQORDS has been conducted. The aspects of constraints, settings, physical activity and changes to twelve outdoor recreation activities were analysed in detail. The following conclusions can be drawn from the analysis of these aspects:

The changes in certain constraints other than 'time' have explained many of the changes in participation rates, frequency rates and activity-events in selected activities in the 2007 SEQORDS. For current participants the constraints of 'nowhere to go', 'family', 'health' and 'equipment' constraints were increasing factors. For current participants 'cost' did not appear to be a major constraint for further participation.

For non-participants 'family', 'health' and 'cost' constraints increased over the three SEQORDS for most activities. 'Nowhere to go' and 'equipment' constraints were not major issues for non-participants.

Increasingly participants across all outdoor recreation activities have expressed preference for more *natural settings*. However, there are

some shifts occurring within the overall general preference. It would seem that there are activities that require the use of more natural settings (in which case *totally natural* settings and preference for *very natural* settings increase). At the same time there are some activities that are not dependent on the naturalness of the settings for their use and enjoyment (in which case there is an increase use and preference of *somewhat natural* settings). This may be caused from increased constraints impacting on people's choice of settings. *Somewhat natural* settings may have fewer constraints thus there is an increase in these (despite a preference for more natural settings). *Totally natural* settings are increasingly being used despite major constraints involved with accessing these settings.

The changes to physically active outdoor recreation across the three studies indicates there was a recent decline in activity-events but that the 2007 levels are still greater than 1997 SEQORDS. There were significant decreases noted in women's participation rates, frequency and activity-events data.

The increases in some activities can be explained through decreased cost and changes in leisure preferences. The declines in some of the activities were explained by constraints data, such as 'nowhere to go', 'family', 'health' and 'equipment' constraints. Changes in leisure preferences were also identified as factors that influenced the declining rates.

Future research in the form of another SEQORDS is needed to continue to chart the trends in outdoor recreation. Other research questions were also identified. The central themes of the questions identified centred on the management of the liveability of the region and other key social issues that are related to the impacts of population growth.

Section 15

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Section 16

Appendix

Table 25: A comparison of participation rates from 1997 to 2007 (percentages)

Activity	Participation 1997	Participation 2001	Participation 2007
Picnicking	65%	67%	58%
Walking or Nature Study	60%	49%	35%
Camping	25%	33%	30%
Bicycle Riding	25%	26%	29%
Horse Riding	7%	7%	7%
Water Activities	39%	56%	54%
Driving 2WD Vehicles	31%	24%	15%
Driving 4WD Vehicles	20%	23%	23%
Driving other Vehicles	7%	7%	11%
Riding on Motorised Watercraft	26%	27%	21%
Riding on Non-Motorised Watercraft	17%	19%	17%
Abseiling/Rock-climbing	7%	6%	6%

Table 26: A comparison of median participation frequency from 1997 to 2007

Activity	1997	2001	2007
Picnicking	4.5	4	4
Walking or Nature Study	10.3	12	5
Camping	2.1	2	2
Bicycle Riding	12.2	11	10
Horse Riding	2.4	2	2
Water Activities	6.3	12	10
Driving 2WD Vehicles	3.7	5	3
Driving 4WD Vehicles	3.1	4	3
Driving other Vehicles	4.2	5	6
Riding on Motorised Watercraft	3.3	4	3.5
Riding on Non-Motorised Watercraft	2.5	2	3
Abseiling/Rock-climbing	1.8	2	3

Table 27: A comparison of outdoor recreation activity-event data from 1997 to 2007

Activity	1997	2001	2007
Picnicking	3 096 000	5 093 904	3 835 902
Walking or Nature Study	6 622 900	11 176 176	3 857 240
Camping	554 400	1 254 468	1 332 799
Bicycle Riding	3 233 000	5 436 035	7 327 114
Horse Riding	182 400	266 100	482 565.3
Water Activities	2 608 200	12 772 776	9 506 865
Driving 2WD Vehicles	1 224 700	2 280 850	1 326 234
Driving 4WD Vehicles	672 700	1 748 652	1 516 634
Driving other Vehicles	315 000	665 250	1 165 379
Riding on Motorised Watercraft	894 300	2 052 768	1 851 475
Riding on Non-Motorised Watercraft	333 000	722 270	755 034
Abseiling/Rock-climbing	187 500	228 086	265 903
Total	19 924 100	43 697 335	33 223 144

Section 16

Appendix cont.

List of Figures

Figure 1	Outdoor recreation activity-events across the three Demand Studies
Figure 2	Percentage of SEQ resident population participation in outdoor recreation activities across the three Demand Studies
Figure 3	Percentage of SEQ resident population who did not participate in outdoor recreation but wanted to, in the three Demand Studies
Figure 4	Changes in activity-event data for selected physically active forms of outdoor recreation for males and females
Figure 5	ABC media report March 2007
Figure 6	Participation rates for outdoor recreation activities across the three Demand Study
Figure 7	Frequency of participation for outdoor recreation activities across the three Demand Study
Figure 8	Activity-events of outdoor recreation activities across the three Demand Study
Figure 9	Rates of non participants who would like to participate across the three Demand Study
Figure 10	Changes in the rates of non participants who would like to participate across the three Demand Study
Figure 11	Rates for current participants who would like to participate more and non-participants who would like to participate in walking or nature study across the three Demand Study.
Figure 12	Changes in 'time' constraints for current participants between 1997, 2001 and 2007 Demand Study
Figure 13	Changes in 'time' constraints for non-participants between 1997, 2001 and 2007 Demand Study
Figure 14	'Nowhere to go' constraint for current participants and non-participants
Figure 15	Changes to 'Nowhere to go' constraint for current participants who would like to participate more often between 1997, 2001 and 2007
Figure 16	Changes to 'Nowhere to go' constraint for non-participants who would like to participate between 1997, 2001 and 2007
Figure 17	Changes in 'family' constraints for current participants between 1997, 2001 and 2007
Figure 18	Changes in 'family' constraints for non-participants between 1997, 2001 and 2007
Figure 19	Changes in 'health' constraints for current participants between 1997, 2001 and 2007
Figure 20	Changes in 'health' constraints for non-participants between 1997, 2001 and 2007
Figure 21	Changes in 'cost' constraints for current participants between 1997, 2001 and 2007
Figure 22	Changes in 'cost' constraints for non-participants between 1997, 2001 and 2007
Figure 23	Changes in 'equipment' constraints for current participants between 1997, 2001 and 2007
Figure 24	Changes in 'equipment' constraints for non-participants between 1997, 2001 and 2007
Figure 25	Average of current and preferred settings for all activities from the 1997 Demand Study
Figure 26	1997 current and preferred somewhat natural setting use for all activities

Figure 27	1997 current and preferred very natural setting use for all activities
Figure 28	1997 current and preferred totally natural setting use for all activities
Figure 29	Average of current and preferred settings for all activities from the 2001 Demand Study
Figure 30	2001 current and preferred somewhat natural setting use for all activities
Figure 31	2001 current and preferred very natural setting use for all activities
Figure 32	2001 current and preferred totally natural setting use for all activities
Figure 33	Average of current and preferred settings for all activities from the 2007 Demand Study
Figure 34	2007 current and preferred somewhat natural setting use for all activities
Figure 35	2007 current and preferred very natural setting use for all activities
Figure 36	2007 current and preferred 3 setting use for all activities
Figure 37	The average of all activities for somewhat natural settings over the three studies
Figure 38	The average of all activities for very natural settings over the three studies
Figure 39	The average of all activities for totally natural settings over the three studies
Figure 40	Rates of current participation for the constraint 'nowhere to go' in the different recreation settings
Figure 41	The difference between current participants setting use compared with current participants use who stated the constraint 'where to go'
Figure 42	Number of current participants in picnicking who expressed 'nowhere to go' and their use and preference of settings in 2007
Figure 43	Number of current participants in picnicking who expressed 'nowhere to go' and their use and preference of settings in 2007
Figure 44	Number of current participants in camping who expressed 'nowhere to go' and their use and preference of settings in 2007
Figure 45	Changes in participation rates for selected physically active forms of outdoor recreation activities across the three Demand Study
Figure 46	Changes in frequency of participation for selected physically active forms of outdoor recreation across the three Demand Study
Figure 47	Changes to averaged frequency and participation rates for selected activities across the three Demand Study
Figure 48	Highlighted changes to averaged frequency and participation rates for selected activities across the three Demand Study
Figure 49	activity-events for selected physically active forms of outdoor recreation
Figure 50	Women's participation in outdoor activities 1997-2007
Figure 51	Men's participation in outdoor activities 1997-2007

Section 16

Appendix cont.

List of Figures cont.

Figure 52	Women's participation rates and frequency of participation for selected physically active forms of outdoor recreation
Figure 53	Percentage change in activity-events between 2001 and 2007
Figure 54	Total activity-events for males and females in the selected activities
Figure 55	Changes to participation rates of additional physically active forms of outdoor recreation between 2001 and 2007
Figure 56	Changes in current motivations for participation 1997 – 2007
Figure 57	Goal-focused and competitive motivational style for selected physically active forms of outdoor recreation across the three Demand Study
Figure 58	Averaged percentages of the different style of motivation across the three Demand Study
Figure 59	Trends in participation, frequency and activity-events for picnicking
Figure 60	Trends in participation and frequency rates within age groups for picnicking
Figure 61	Changes in constraints of current and non-participants for picnicking
Figure 62	Trends in current participation rates across the three settings for picnicking
Figure 63	Trends in participation, frequency and activity-events for walking or nature study
Figure 64	Trends in participation and frequency rates within age groups for walking or nature study
Figure 65	Changes in constraints of current and non participants for walking or nature study
Figure 66	Trends in current participation rates across the three settings for walking or nature study
Figure 67	Trends in participation, frequency and activity-events for camping
Figure 68	Trends in participation and frequency rates within age groups for camping
Figure 69	Changes in constraints of current and non participants for camping
Figure 70	Trends in current participation rates across the three settings for camping
Figure 71	Trends in participation, frequency and activity-events for water activities
Figure 72	Trends in participation and frequency rates within age groups for water activities
Figure 73	Changes in constraints of current and non participants for water activities
Figure 74	Trends in current participation rates across the three settings for water activities
Figure 75	Trends in participation, frequency and activity-events for riding bicycles
Figure 76	Trends in participation and frequency rates within age groups for riding bicycles
Figure 77	Changes in constraints of current and non participants for riding bicycles
Figure 78	Trends in current participation rates across the three settings for riding bicycles

Figure 79	Trends in participation, frequency and activity-events for motorised watercraft
Figure 80	Trends in participation and frequency rates within age groups for motorised watercraft
Figure 81	Changes in constraints of current and non participants for motorised watercraft
Figure 82	Trends in current participation rates across the three settings for motorised water craft
Figure 83	Trends in participation, frequency and activity-events for non-motorised watercraft
Figure 84	Trends in participation and frequency rates within age groups for non-motorised watercraft
Figure 85	Changes in constraints of current and non participants for non-motorised watercraft
Figure 86	Trends in current participation rates across the three settings for non-motorised watercraft
Figure 87	Trends in participation, frequency and activity-events for horse riding
Figure 88	Trends in participation and frequency rates within age groups for horse riding
Figure 89	Changes in constraints of current and non-participants for horse riding
Figure 90	Trends in current participation rates across the three settings for horse riding
Figure 91	Trends in participation, frequency and activity-events for driving 2wd vehicles
Figure 92	Trends in participation and frequency rates within age groups for driving 2wd vehicles
Figure 93	Changes in constraints of current and non-participants for Driving 2wd vehicles
Figure 94	Trends in current participation rates across the three settings for driving 2wd vehicles
Figure 95	Trends in participation, frequency and activity-events for driving 4wd vehicles
Figure 96	Trends in participation and frequency rates within age groups for driving 4wd vehicles
Figure 97	Changes in constraints of current and non-participants for driving 4wd vehicles
Figure 98	Trends in current participation rates across the three settings for driving 4wd vehicles
Figure 99	Trends in participation, frequency and activity-events for driving other vehicles
Figure 100	Trends in participation and frequency rates within age groups for driving other vehicles
Figure 101	Changes in constraints of current and non-participants for driving other vehicles
Figure 102	Trends in current participation rates across the three settings for driving other vehicles
Figure 103	Trends in participation, frequency and activity-events for abseiling/rock-climbing
Figure 104	Trends in participation and frequency rates within age groups for abseiling/rock-climbing
Figure 105	Changes in constraints of current and non-participants for abseiling/rock-climbing
Figure 106	Trends in current participation rates across the three settings for abseiling/rock-climbing
Figure 107	Trends in participation rates for fishing between 2001 and 2007 Demand Study

