

Sport and Recreation Profile: Swimming

Findings from the 2007/08
Active New Zealand Survey



INTRODUCTION

Content

This sport and recreation profile presents information about participation in swimming among New Zealand adults aged 16 years and over. It is compiled from information collected through the 2007/08 Active NZ Survey and includes:

- participation levels;
- profile of participants;
- participation patterns; and
- volunteering levels.

Methodology

Sample

A total of 4,443 adults aged 16 years and over participated in the 2007/08 Active NZ Survey. Among the participants, 1,393 (547 men, 846 women) reported swimming at least once during the 12 months preceding the interview. The 4,443 interviews (which were completed over a 12-month period beginning in March 2007) were stratified by month and by the 17 regional sports trust catchment areas.

The Survey

The Active NZ Survey (an interviewer-administered, face-to-face self-report survey) consisted of two data collection tools:

- 1. a sport and recreation survey; and
- 2. a seven-day physical activity recall diary.

The sport and recreation survey was used to collect information about participation levels in various sport and recreation activities. Participants reported the sport and recreation activities they participated in over three different timeframes: during the 12 months, four weeks and seven days preceding the interview. Participants reported a range of other sport and recreation information including where they participated in activities, participation in volunteering, instruction to improve performance and involvement in clubs and centres.

The seven-day physical activity recall diary assessed the frequency, intensity and duration of sport and recreation activities participated in during the seven days preceding the interview. The following information was collected for each day of the previous week:

- 1. the specific activities participated in (e.g. swimming);
- 2. the day on which the activity was undertaken (e.g. went swimming on Monday and Thursday);
- 3. the total time spent participating in each specific sport and recreation activity (e.g. 60 minutes spent swimming on Monday);
- 4. the amount of time spent at a moderate intensity (e.g. of the 60 minutes spent swimming on Monday, 20 minutes was spent at a moderate intensity); and
- 5. the amount of time spent at a vigorous intensity (e.g. of the 60 minutes spent swimming on Monday, 25 minutes was spent at a vigorous intensity).

The information from the diary was used to determine the time spent and the intensity at which adults participated in swimming during any one week.

Ethnic Groupings

In the 2007/08 Active NZ Survey, participants were able to identify with multiple ethnicities. Consequently, the same person could be represented in different ethnic groups (e.g. Māori and NZ European). Therefore, when the percentages for each ethnic group are summed they do not equal 100 percent. Ethnic-specific findings should only be compared with estimates for the total New Zealand population as comparisons between ethnic groups (e.g. Māori versus Pacific) are not valid.

Socioeconomic Position

The NZiDep tool was used to measure the socioeconomic position of participants. The tool consists of eight questions which assess different domains of socioeconomic status. Based on the number of deprivation indicators reported, participants were grouped into one of five groups ranging from the least (Quintile 1) to the most (Quintile 5) disadvantaged socioeconomic group. The five groups were:

Quintile 1 – no deprivation characteristics;

Quintile 2 – one deprivation characteristic was reported;

Quintile 3 – two deprivation characteristics were reported;

Quintile 4 - three or four deprivation characteristics were reported; and

Quintile 5 – five or more deprivation characteristics were reported.

Further information about the Active NZ Survey methodology is available at www.sparc.org.nz/activenzsurvey.

Information Reported

All findings relate to the New Zealand adult population aged 16 years and over. They are based on responses from at least 100 participants and have a relative standard error of less than 25 percent unless stated otherwise. All estimates have been weighted to correct for differences between the sample population and the general New Zealand population. Percent estimates (e.g. 50%) with 95 percent confidence intervals (e.g. 95% CI: 45-55) have also been age-standardised to the 2006 New Zealand adult population. Estimates without 95% percent confidence intervals represent proportions within the sport-specific population (i.e. adults who participated in the activity), and have not been age-standardised.

Confidence intervals (CI) have been used to indicate if significant differences exist between different groups (e.g. men versus women) in the population. Findings are generally considered significantly different if there is no overlap between the confidence intervals of the percentage estimates being compared.

The Active NZ Survey is a nationally representative survey of all New Zealand adults. The findings in this profile are not directly comparable with other sources of information about swimming. This is because methodological differences (e.g. the way data is collected, the definitions used) contribute to differences in findings between different data sources.

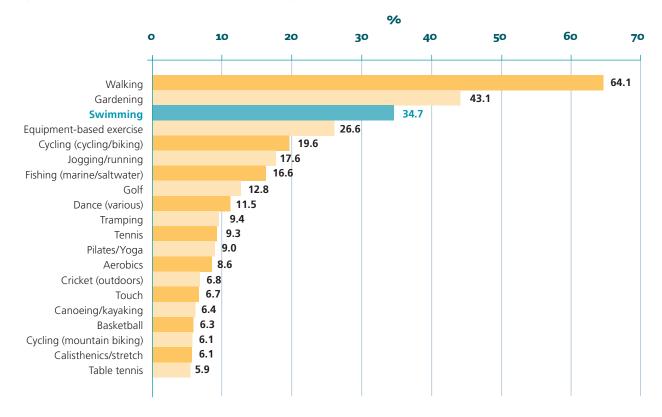
FINDINGS

Participation Levels

2007/08 Participation Levels

Over 12 months, 34.7 percent (95% CI: 32.8–36.6) of all New Zealand adults aged 16 years and over (1,139,812 people) had participated in swimming at least once. Figure 1 presents 20 sport and recreation activities with the highest participation levels among all New Zealand adults¹. Swimming had the third highest participation rate among various sport and recreation activities.

Figure 1: Sport and recreation activities with the highest participation levels



¹ Figure 1 is based on information presented in the document titled 'Sport and Recreation Participation Levels' which is available at www.sparc.org.nz/activenzsurvey.

Profile of Participants

Demographic Profile

Table 1 presents demographic information about swimming participation. For example, among all men in New Zealand 33.2 percent participated in swimming at least once over 12 months.

Table 1 shows that adults aged 50 years and over (compared with adults from all other age groups), adults who self-identified as Pacific or Asian (compared with all New Zealand adults) and adults in the most disadvantaged group (Quintile 5) compared to the least disadvantaged groups (Quintiles 1, 2 and 3) were significantly less likely to have participated in swimming. Swimming participation levels did not differ significantly by gender.

Table 1: Proportion of all New Zealand adults (16 years and over) who participated in swimming at least once over 12 months

	Percentage (95% CI)	Population ²
Total Popualtion	34.7 (32.8–36.6)	1,139,812
Gender		
Men	33.2 (30.5–35.9)	528,314
Women	36.3 (33.9–38.7)	611,498
Age Group		
16–24 years	47.3 (40.6–53.9)	259,677
25–34 years	44.0 (38.1–49.9)	239,343
35–49 years	40.9 (36.2–45.7)	387,231
≥ 50 years	20.5 (15.6–25.4)	253,561
Ethnic Group		
Māori	32.9 (29.0–36.7)	153,822
Pacific	19.9 (14.3–25.4)	44,102
NZ European	36.9 (34.6–39.1)	809,360
Asian	26.9 (21.7–32.1)	103,726
Socioeconomic Posi	tion	
Quintile 1	34.4 (32.1–36.7)	679,762
Quintile 2	36.1 (32.3–39.9)	244,306
Quintile 3	35.1 (29.9–40.4)	110,711
Quintile 4	31.7 (26.2–37.2)	82,845
Quintile 5	20.1 (13.0–27.3)	22,186

² The column indicates the number of New Zealand adults who participated in swimming. For example, 528,314 men participated in swimming at least once over 12 months.

Figure 2 presents information about people who participated in swimming at least once over 12 months.

For example, among adults who participated in swimming 46.4 percent were men and 53.6 percent were women.

A large proportion of adults who participated in swimming self-identified as New Zealand European or Māori.

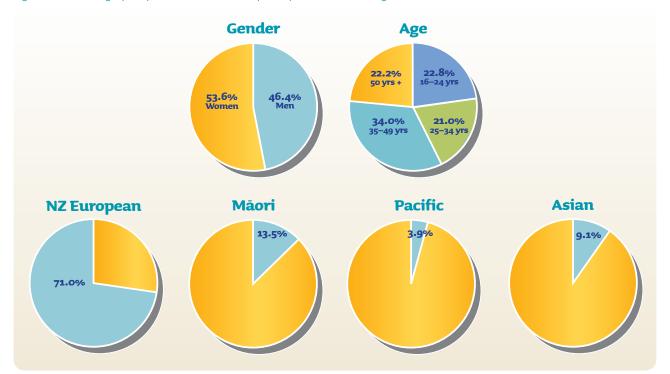


Figure 2: Demographic profile of adults who participated in swimming

Participation in Other Sport and Recreation Activities

On average, adults who participated in swimming at least once over 12 months took part in seven different sport and recreation activities over 12 months (the national average was 4.6). Irrespective of gender, adults who participated in swimming also participated in walking, gardening, cycling, equipment-based exercise and jogging/running. In addition, men also participated in saltwater fishing and golf while women participated in pilates/yoga.

Physical Activity Levels

As part of New Zealand's physical activity guidelines adults are recommended to participate in at least 30 minutes of moderate-intensity³ physical activity on most, if not on all, days of the week. To meet this guideline, participation in at least 30 minutes of moderate-intensity physical activity on five or more days of the week was required.

When compared to the proportion of all New Zealand adults who achieved this guideline (48.2%; 95% CI: 46.3–50.1), adults who participated in swimming were significantly more likely to have achieved the guideline (55.8%; 95% CI: 52.6–58.9).

³ Moderate-intensity physical activity was defined as activity that causes a slight, but noticeable, increase in breathing and heart rate.

Participation Patterns

Organised Competition and Event Participation⁴

Among adults who participated in swimming at least once over 12 months, 5.7 percent (64,903 people) had participated in an organised swimming competition or event.

Instruction

Among adults who participated in swimming at least once over 12 months, 7.8 percent (89,389 people) had received instruction from a coach, instructor, trainer or teacher to help improve their swimming performance.

Participation Setting

During any one month, 16.4 percent (95% CI: 14.7–18.0) of all New Zealand adults (537,124 people) participated in swimming at least once. Among these adults, the most common locations⁵ for swimming were 'indoors at a sports facility' (47.8%), 'outdoors in or by a beach, river, lake or the sea' (36.8%), 'outdoors at a sports facility' (12.7%) and 'at home or someone else's home' (7.5%).

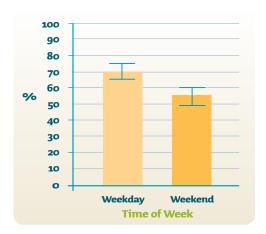
People can belong to different types of clubs or centres in order to participate in sport and recreation. The clubs/ centres examined in this survey included: sport and physical activity clubs, social clubs, fitness centres and some other type of club/centre. Among adults who participated in swimming during any one month:

- 12.1 percent (65,088 people) belonged to any type of club or centre in order to participate in swimming;
- 6.6 percent (35,619 people) were members of a gym or fitness centre in order to participate in swimming; and
- 4.7 percent (25,096 people) were members of a sport or physical activity club in order to participate in swimming.

Time Spent Participating

During any one week, 8.6 percent (95% CI: 7.3–10.0) of all New Zealand adults (282,097 people) participated in swimming at least once. On average, adults participated in swimming on two days out of seven, for an average of 60 minutes on any one day. The average time spent swimming per week was 114 minutes. Adults were significantly more likely to swim on weekdays compared with weekend days (Figure 3).

Figure 3: Adult participation in swimming, by time of week



⁴ Examples of organised competition and events included one-off events as well as organised club competitions.

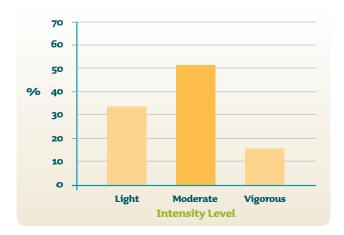
⁵ Adults who reported participating in swimming during the four weeks preceding the interview also reported the locations where they participated in the last four weeks. Participants were asked to identify a location from a list of nine general locations (e.g. at indoor sports facility).

Intensity of Participation

Individuals participate in sport and recreation activities at varying levels of intensity (i.e. light intensity, moderate intensity⁶, vigorous intensity⁷). During any one week, 20.8 percent (95% CI: 15.8–25.8) of all New Zealand adults who participated in swimming (57,639 people) achieved more than 2.5 hours of moderate-to-vigorous-intensity physical activity through participation in swimming alone.

Figure 4 displays the proportion of total swimming time per week that was undertaken at each level of intensity. During any one week, 50.7 percent of swimming time was spent participating at moderate intensity and 16.0 percent was spent at vigorous intensity. The remaining 33.3 percent of the time was spent participating at light intensity.





Volunteering Levels

Among all New Zealand adults, 2.2 percent (95% CI: 1.6-2.9; 72,879 people) volunteered for swimming. Among adults who participated in swimming at least once over 12 months, 34.0 percent (387,084 people) volunteered for at least one sport or recreation activity and 5.7 percent (64,876 people) volunteered for swimming.

⁶ Moderate-intensity physical activity was defined as activity that causes a slight, but noticeable, increase in breathing and heart rate.

⁷ Vigorous-intensity physical activity was defined as activity that makes you 'huff or puff'.



PO Box 2251, Wellington, New Zealand
Phone: +64 4 472 8058 Fax: +64 4 471 0813

www.**sparc**.org.nz

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