

**ACTIVE NEW ZEALAND
SURVEY SERIES**

Te Rangahau Korikori o Aotearoa

**Sport & Active
Recreation Profile**

TRAMPING

**FINDINGS FROM THE 2013/14
ACTIVE NEW ZEALAND SURVEY**

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**SPORT
NEW ZEALAND**

Introduction

Content

This sport profile presents information about participation in tramping among New Zealand adults aged 16 years and over. It is primarily compiled from information collected through the 2013/14 Active New Zealand Survey¹ and includes:

- participation levels
- participant profile
 - demographic profile
 - history of participation in the sport
 - participation in other sport and recreation activities
- participation patterns
 - seasonal participation
 - frequency of participation
 - location of participation
- ways participants take part
 - different ways that participants take part
 - participation with other participants
 - payment types
 - membership of a club or centre
 - coaching and use of instructional resources
- motivations for and barriers to participation
- participation trends since 1997/98.

Methodology

The survey

The Active New Zealand Survey consisted of two parts:

- The first part (the **Main Survey**) was a 30-minute in-home interview, with answers recorded on laptop computers; this was completed by all 6,448 adults.
- The second part (the **Follow-up Survey**) was a further 10-minute interview which people could complete at home straight after the Main Survey or at a later time by phone; this was completed by 6,195 adults.

Sample

A total of 6,448 adults aged 16 years and over took part in the 2013/14 Active New Zealand Survey. The 6,448 interviews were completed over a 12-month period from April 2013 to March 2014 to capture participation in seasonal sports and activities.

As not everyone selected for interviews took part, some groups (based on gender, age and ethnicity) were under- or over-represented in the survey responses. To account for this, the responses are adjusted, or weighted, using information on the make-up of the New Zealand population from the 2013 Census. This weighted data is reported in this sport profile.

¹ Note: The trend section also draws upon the 1997/98 New Zealand Sport and Physical Activity Survey and the 2007/08 Active New Zealand Survey.

Citation

Sport New Zealand. (2015). *Sport and Active Recreation Profile: Tramping – Findings from the 2013/14 Active New Zealand Survey*. Wellington: Sport New Zealand. This document is available on the Sport New Zealand website: www.sportnz.org.nz.

Among the survey respondents, 609 reported participating in tramping at least once during the 12 months preceding the interview. The numbers of trampers that answered each question vary according to their frequency of participation in the sport, and/or if they took part in the **Follow-up Survey**.

Table 1 shows the unweighted bases for survey respondents that reported participating in tramping in relation to the content of this profile report.

Table 1: Unweighted survey bases of adults who participated in tramping

| Survey base | Number | Report content |
|--|--------|---|
| Main Survey All participants | 609 | Participation levels Demographic profile Participation in other sport and recreation activities Seasonal participation Frequency of participation |
| Main Survey Participants (over a month) | 372 | Location of participation Different ways participants take part Participation with other participants Payment types Membership of a club or centre Motivations for participation |
| Follow-up Survey Participants (over a month) | 351 | History of participation Coaching and use of instructional resources |

Information reported

All findings relate to the New Zealand adult population aged 16 years and over. Each specific sport profile is based on responses from at least 100 sport participants and has a relative error of less than 20% unless stated otherwise. Questions that have a base size of fewer than 100 respondents are shown with an asterisk (*) in the table heading or figure legend or title.

More information about the analysis and statistical significance of findings is outlined in Appendix 1.

The results in this report are subject to rounding error. In some cases, percentages that should sum to 100% sum to just under or over 100%. In other cases, the estimated number of participants by sub-group (eg, men and women) may not add up to all participants.

Key Points to Note

Definitions of sport and key variables

For this report, sport is defined broadly and is inclusive of the different ways people participate, from casual participation through to organised competition, and includes active recreation like going for a mountain bike ride.

Some response categories in charts and tables may be abbreviated. See Appendix 1 for more information on definitions of key variables.

Ethnic groupings

In the 2013/14 Active New Zealand Survey, respondents were able to identify with multiple ethnicities. Consequently, the same person could be represented in different ethnic groups. In this report, so that percentages add to 100% and respondents are in a mutually exclusive group, we report on groups of respondents that identified with a single ethnicity only (eg, Māori only), and those that identified with two or more ethnicities (eg, Māori and a Pacific ethnic group). This approach enables comparisons to be made between ethnic groups (eg, Māori only compared with Pacific only).

It should be noted that 'Pacific only' means one ethnic group only (eg, Tongan only, or Samoan only, and not a mix; a respondent identifying as Tongan **and** Samoan will be grouped with two or more ethnicities). Likewise 'Asian only' and 'Other Ethnicity only' means those respondents identified only one ethnicity that corresponds to these broad groups.

Socioeconomic background

The New Zealand Index of Socioeconomic Deprivation (NZDep) was used as a proxy measure of the socioeconomic background of participants. Results are shown for three deprivation bands: low (ie, the least deprived), medium and high (ie, the most deprived). See Appendix 1 for more information.

Trend analysis

The information shown in this section may differ slightly from corresponding results earlier in the report (ie, in the participation levels section) because the information has been analysed using a different approach. The approach taken for the trend analysis controls for differences in the structure of the New Zealand population over the three time points analysed. See Appendix 1 for more information.

A Quick Look at Participants

Who

- Compared with all adults, more men, adults aged 40 to 54 years, New Zealand Europeans and those of Other Ethnicity only participated in tramping, and fewer women, older adults (aged 70 years or over) and Māori, Asian and Pacific only ethnic groups.
- Almost 6 out of 10 trampers took up the activity as adults, either between the ages of 18 and 34 (32%) or when aged over 35 years old (27%). Almost one-quarter (24%) took up the activity when aged between 6 and 12 years.
- Trampers took part in many activities (7.6 on average), with the most common being walking, swimming, cycling and jogging/running.

When

- Just over 8 out of 10 trampers have been tramping on one to two days a month (42%) or less often (39%).
- November to March were the most popular months for tramping.

Where

- Virtually all went tramping in natural settings, most commonly in the bush or a forest (89%), followed by in the countryside or over farmland (45%).
- Small numbers (6%) were a member of any club, gym or centre to do tramping.

How

- Almost all (96%) went tramping on a casual basis, either on their own or with others.
- Most (86%) went tramping for free, although 1 in 10 (11%) have paid to participate on a per visit, entry or hire basis.

Why

- Adults participated in tramping primarily for enjoyment or the fun of it (88%), followed by 71% participating for fitness and health reasons.



Findings

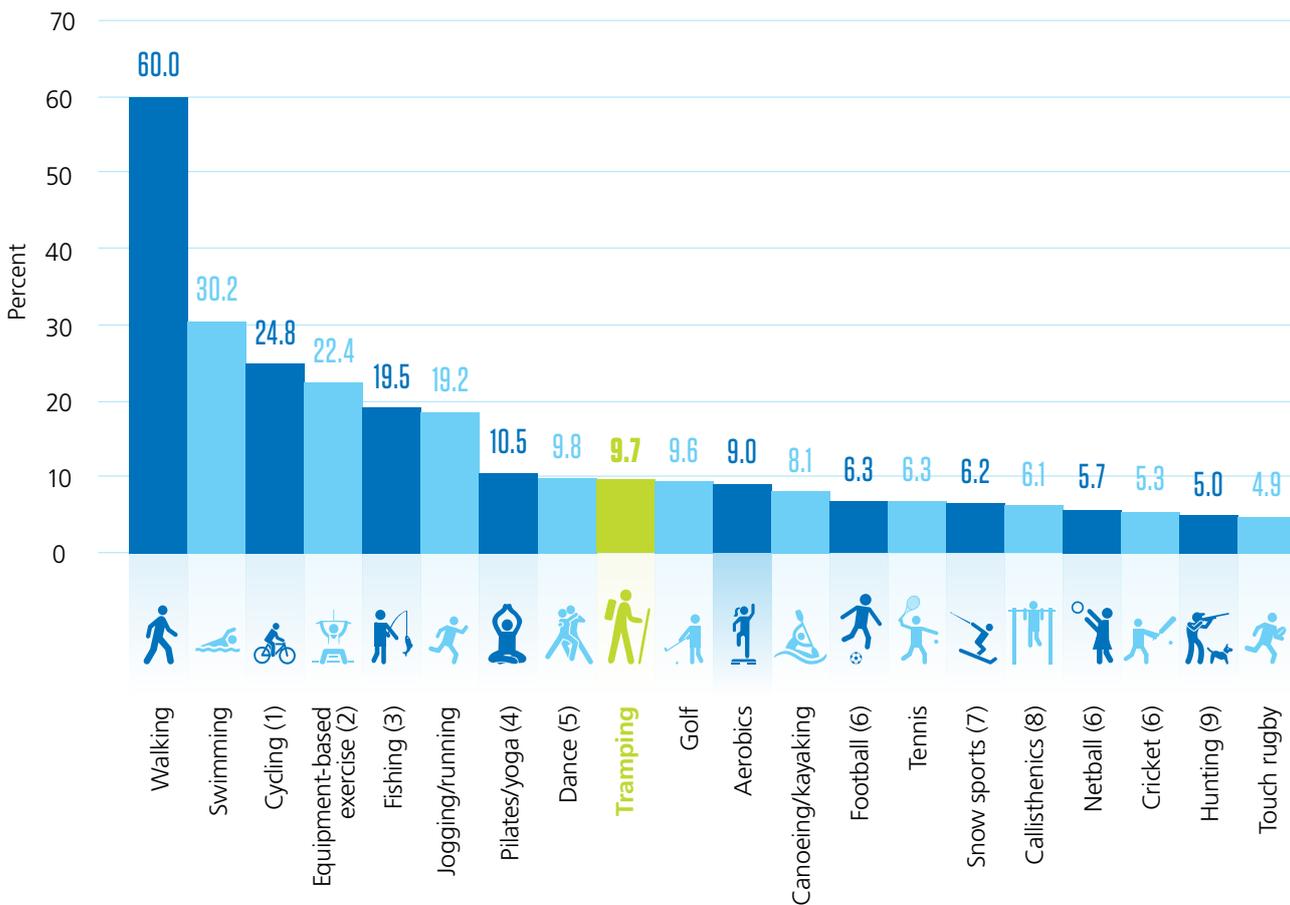
Participation levels

2013/14 participation levels

Over 12 months, 1 in 10 (9.7%) of all New Zealand adults aged 16 years and over (around 322,000 people) went tramping at least once. Among the various sport and recreation activities, tramping had the 9th highest participation rate.

Figure 1 presents the 20 sport and recreation activities with the highest participation levels among all New Zealand adults².

Figure 1: Sport and active recreation activities with the highest participation levels over 12 months



Notes:

- (1) Cycling includes mountain biking and cycling.
- (2) Equipment-based exercise includes the use of exercise equipment (eg, exercycles, treadmills, weights) at home or at the gym.
- (3) Fishing includes freshwater and marine fishing.
- (4) Pilates/yoga includes both at home or at the gym/class.
- (5) Dance includes several dance genres (eg, ballet, hip-hop, ballroom, modern, tap). It does not include club/rave/disco.
- (6) Includes both indoor and outdoor versions of the activity.
- (7) Snow sports includes skiing and snowboarding.
- (8) Callisthenics includes callisthenic exercise classes, exercises at home or at the gym.
- (9) Hunting includes hunting and deerstalking/pig hunting.

² Figure 1 is based on information presented in the document titled *Sport and Active Recreation in the Lives of New Zealand Adults*, which is available at: www.srknowledge.org.nz/researchseries/active-new-zealand-20132014/. Participation is irrespective of intensity, duration and frequency.

Profile of Participants

Demographic profile

Table 2 presents demographic information about participation in tramping. For example, among all men in New Zealand, just over 1 in 10 (11.2%) went tramping at least once over 12 months.

A higher proportion of adults of Other Ethnicity only went tramping, while lower proportions of older age groups (70 years and over), Māori, Asian or Pacific only ethnic groups, and those that are retired went tramping.

Large numbers of trampers were New Zealand European, lived in major urban areas, and worked (either full-time or part-time).



Table 2: Proportion of all New Zealand adults (aged 16 years and over) who participated in tramping at least once over 12 months

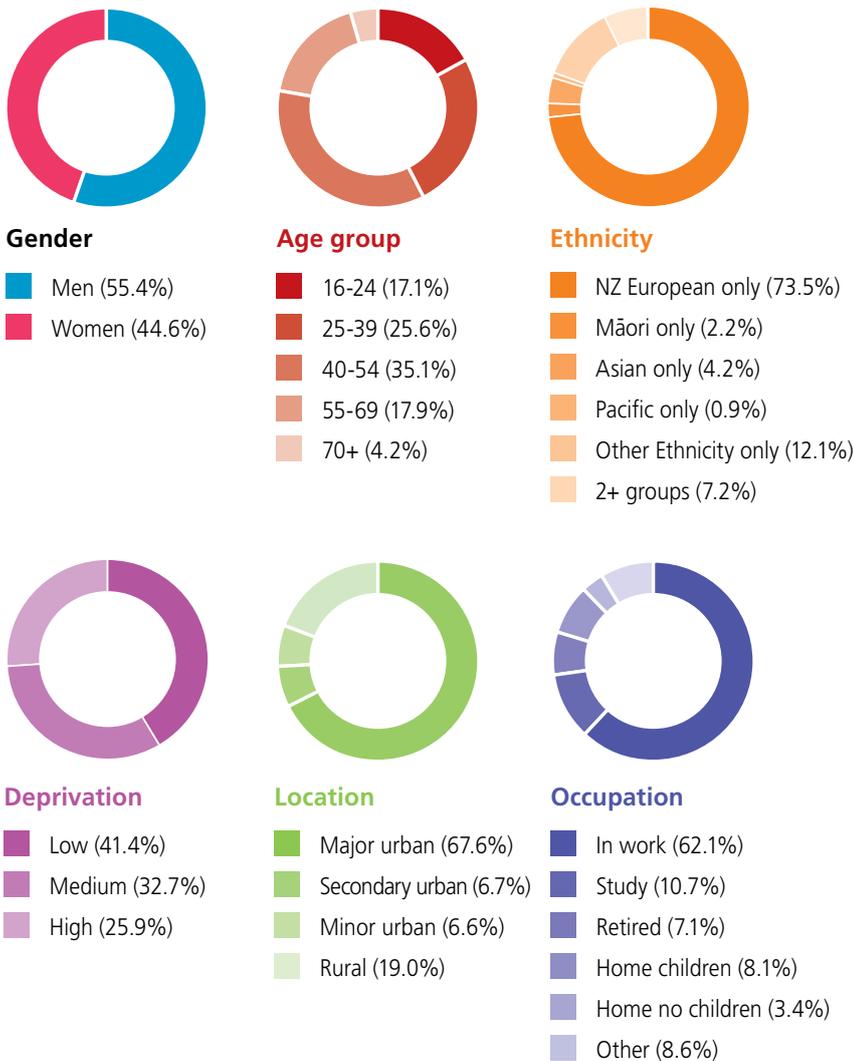
| Tramping participants | | |
|------------------------------------|------|------------------|
| | % | Estimated number |
| All adults (age 16+) | 9.7 | 322,000 |
| Gender | | |
| Men | 11.2 | 178,000 |
| Women | 8.3 | 144,000 |
| Age (years) | | |
| 16-24 | 10.4 | 55,000 |
| 25-39 | 10.5 | 83,000 |
| 40-54 | 12.4 | 113,000 |
| 55-69 | 8.3 | 58,000 |
| 70+ | 3.5 | 14,000 |
| Ethnicity | | |
| NZ European only | 11.0 | 237,000 |
| Māori only | 4.0 | 7,000 |
| Asian only | 4.0 | 13,000 |
| Pacific only | 2.0 | 3,000 |
| Other Ethnicity only | 15.7 | 39,000 |
| Two or more ethnic groups | 8.6 | 23,000 |
| Deprivation | | |
| Low | 12.5 | 133,000 |
| Medium | 9.4 | 105,000 |
| High | 7.5 | 83,000 |
| Location^a | | |
| Major urban | 9.4 | 218,000 |
| Secondary urban | 9.0 | 22,000 |
| Minor urban | 8.1 | 21,000 |
| Rural | 12.8 | 61,000 |
| Occupation | | |
| Full-time or part-time work | 11.1 | 200,000 |
| Studying | 12.6 | 35,000 |
| Retired | 4.5 | 23,000 |
| At home looking after children | 7.6 | 26,000 |
| At home not looking after children | 6.8 | 11,000 |
| Other | 12.6 | 28,000 |

^a See Appendix 1 for more information.

Figure 2 presents demographic information about trampers, while the table to the right presents demographic information for all New Zealand adults. For example, among all people who had participated in tramping, 55.4% were men, while 48.0% of all New Zealand adults (aged 16 years or over) are men. Compared with all New Zealand adults³, the profile of trampers has:

- more men and fewer women
- more adults aged 40 to 54 years and fewer older adults (ie, aged 70 years or older)
- more adults of New Zealand European and Other Ethnicity only, and fewer of Māori, Asian and Pacific only ethnicity
- a similar split of socioeconomic backgrounds
- a similar geographic (ie, location) split
- more who are working and fewer retired people.

Figure 2: Demographic profile of adults who participated in tramping



| All NZ adults (age 16+) | |
|------------------------------------|------|
| Gender | % |
| Men | 48.0 |
| Women | 52.0 |
| Age (years) | |
| 16-24 | 15.9 |
| 25-39 | 23.8 |
| 40-54 | 27.6 |
| 55-69 | 20.9 |
| 70+ | 11.8 |
| Ethnicity | |
| NZ European only | 64.8 |
| Māori only | 5.3 |
| Asian only | 10.0 |
| Pacific only | 4.2 |
| Other Ethnicity only | 7.5 |
| Two or more ethnic groups | 8.1 |
| Deprivation | |
| Low | 32.4 |
| Medium | 33.9 |
| High | 33.7 |
| Location | |
| Major urban | 70.2 |
| Secondary urban | 7.3 |
| Minor urban | 8.0 |
| Rural | 14.5 |
| Occupation | |
| Full-time or part-time work | 54.4 |
| Studying | 8.3 |
| Retired | 15.4 |
| At home looking after children | 10.4 |
| At home not looking after children | 4.8 |
| Other | 6.6 |

³ Confidence intervals (at the 95% level) have been used to indicate if significant differences exist between sport participants and all adults.

History of participation in the sport

Just under 8 out of 10 trampers (77.7%) have been tramping for a year or longer, while just over 1 in 10 (13.1%) started for the first time in the last year, and 1 in 10 (9.2%) re-started after not tramping for a year or more (see Figure 3).

Almost 4 out of 10 trampers (36.1%) have taken part in tramping for five years or less, and almost 3 out of 10 (26.8%) have taken part for over 25 years (see Figure 4).

Figure 3: Take-up of tramping in the past 12 months

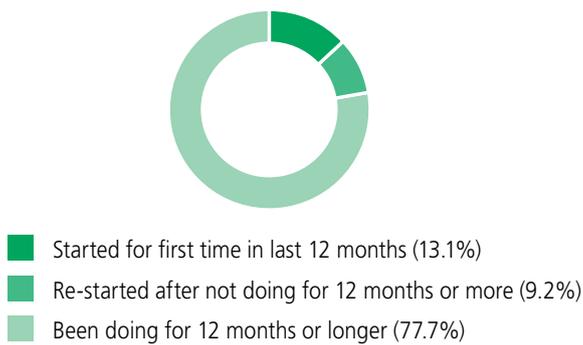
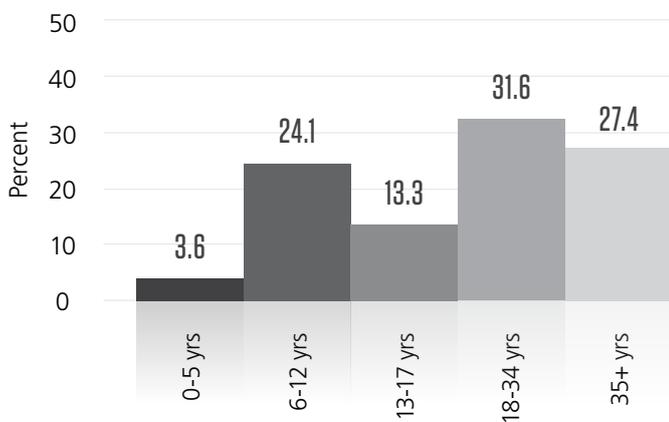


Figure 4: Length of time taken part in sport



Figure 5 shows the estimated age at which trampers started tramping. Similar proportions started tramping when aged between 18 and 34 years (31.6%) or when aged 35 years or over (27.4%), with just over 2 out of 10 (24.1%) starting when aged between 6 and 12 years.

Figure 5: Estimated starting age of those participating in tramping



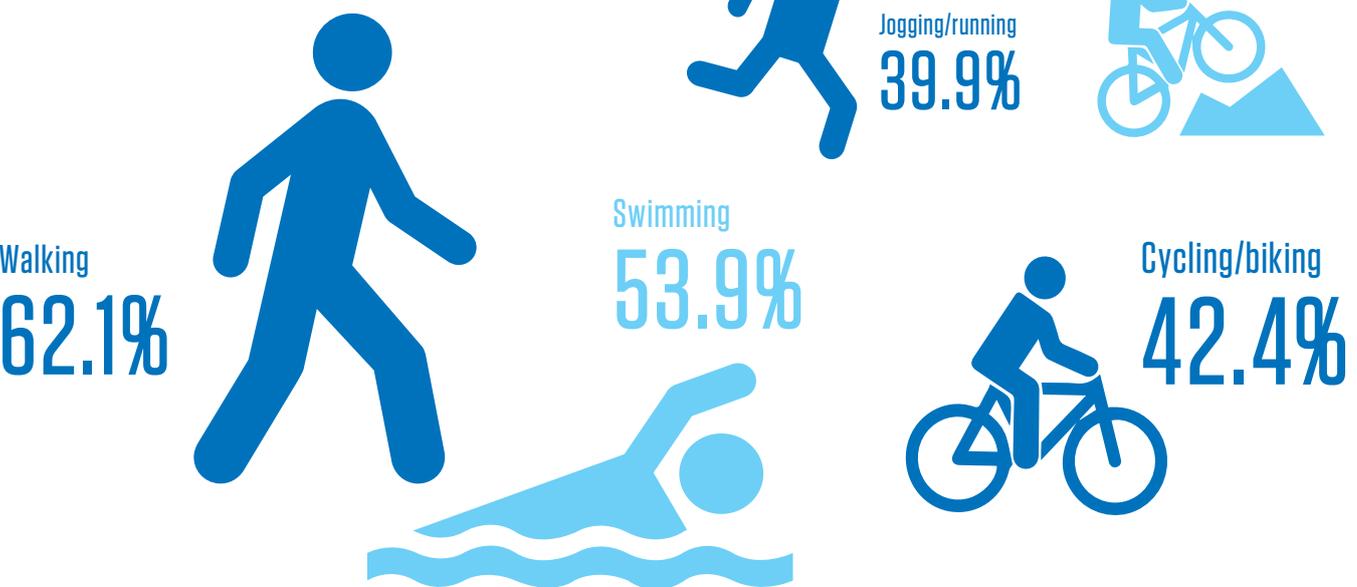
Participation in other sport and recreation activities

On average, adults who went tramping at least once over 12 months took part in 7.6 different sport and recreation activities over 12 months (the national average⁴ is 4.0).

Table 3 shows the top 10 other activities undertaken by trampers, and the proportion of trampers who took part in them. Just over 6 out of 10 trampers went walking (62.1%), followed by over 5 out of 10 (53.9%) taking part in swimming, and similar proportions going cycling/biking (42.4%) and jogging/running (39.9%).

Table 3: Ten most common other sport and active recreation activities that trampers take part in at least once over 12 months

| Tramping participants | |
|-----------------------------|------|
| | % |
| Walking | 62.1 |
| Swimming | 53.9 |
| Cycling/biking | 42.4 |
| Jogging/running | 39.9 |
| Mountain biking | 29.2 |
| Canoeing/kayaking | 25.8 |
| Fishing (marine/saltwater) | 23.7 |
| Exercising at home | 18.0 |
| Golf | 14.3 |
| Pilates/yoga (at gym/class) | 13.9 |



⁴ The national average is calculated for all adults, including those who did not take part in any activities.

Participation Patterns in the Sport

Seasonal participation

Overall, trampers most commonly participated during the months of November to March (see Figure 6). Participation was lowest during the months of May to September.

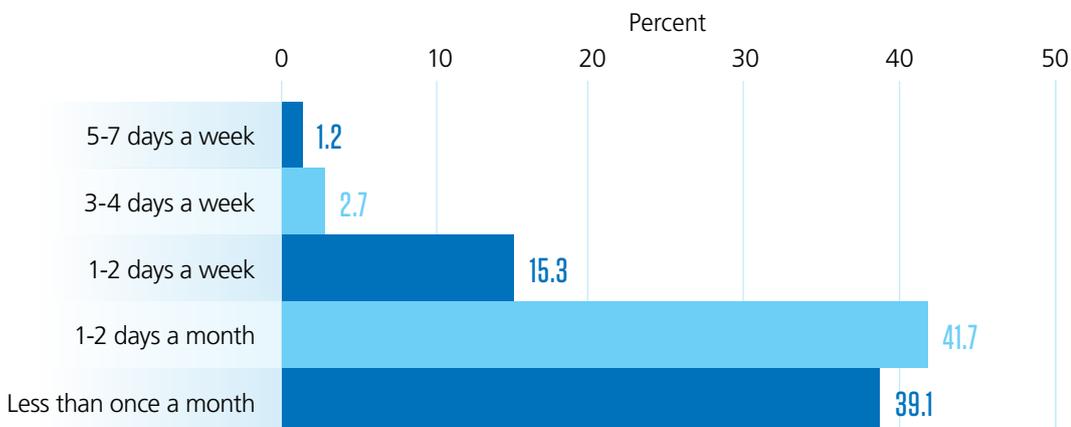
Figure 6: Seasonal participation in tramping



Frequency of participation

Similar proportions of trampers, around 4 out of 10 each, participated in the sport on one to two days a month (41.7%) or less often than this (39.1%, see Figure 7).

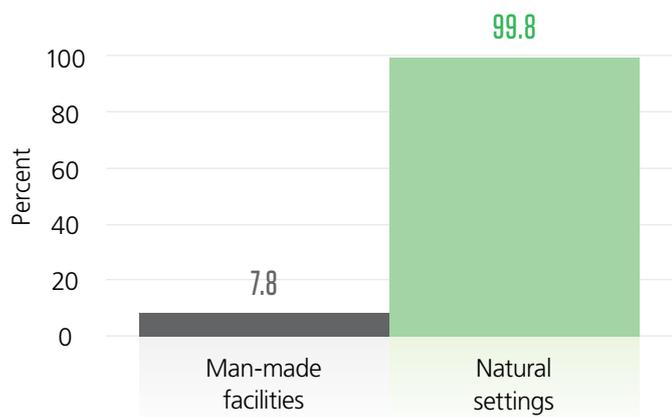
Figure 7: Frequency of participation in tramping



Location of participation

Virtually all trampers (99.8%) went tramping in one or more natural settings facilities, and just under 1 in 10 identified one or more man-made facilities where they went tramping. The most common location for tramping was in the bush or a forest (88.5%), followed by in the countryside or over farmland (45.0%) and similar proportions identifying by a river (31.2%), on an off-road bike trail or walking track (30.1%), by a lake (26.6%) and at a beach or by the sea (24.1%). Man-made facilities at which trampers participated were most commonly outside on a path, cycleway or walkway in a town or city (5.1%, see Figure 8 and the table to the right of it).

Figure 8: Type of location in which adults participate in tramping



Types of tramping done as a sport or recreational activity

Table 4 shows that just over 5 out of 10 (52.4%) trampers have gone on tramps that took between half an hour and 3 hours in the last 12 months as a sport or recreational activity. This is followed by just over 4 out of 10 (41.7%) trampers that have gone on tramps of over 3 hours but not overnight, and just over 2 out of 10 (21.4%) that have gone on a tramp or trek that included an overnight stay but was not a Department of Conservation (DOC) Great Walk.

Table 4: Types of tramping done as a sport or recreational activity by participants

| Tramping participants | |
|--|------|
| | % |
| Tramps that took under ½ hour | 6.7 |
| Tramps that took between ½ hour and 3 hours | 52.4 |
| Tramps that took over 3 hours but not overnight | 41.7 |
| A DOC Great Walk such as Milford or Heaphy Track | 12.3 |
| Other tramp/trek that included an overnight stay | 21.4 |

Note: Respondents could provide more than one answer.

| Tramping participants | |
|--|------|
| Man-made facilities | % |
| Outside on a path, cycleway or walkway in a town or city | 5.1 |
| At an outdoor sports facility | 2.3 |
| Indoors or outside at a home | 0.8 |
| Natural settings | % |
| In the bush or a forest | 88.5 |
| In the countryside or over farmland | 45.0 |
| By a river | 31.2 |
| On an off-road bike trail or walking track | 30.1 |
| By a lake | 26.6 |
| At a beach or by the sea | 24.1 |
| Outdoors at a park in a town or city | 12.4 |
| On or in a river | 3.2 |
| On or in a lake | 2.3 |
| In or on the sea | 0.2 |

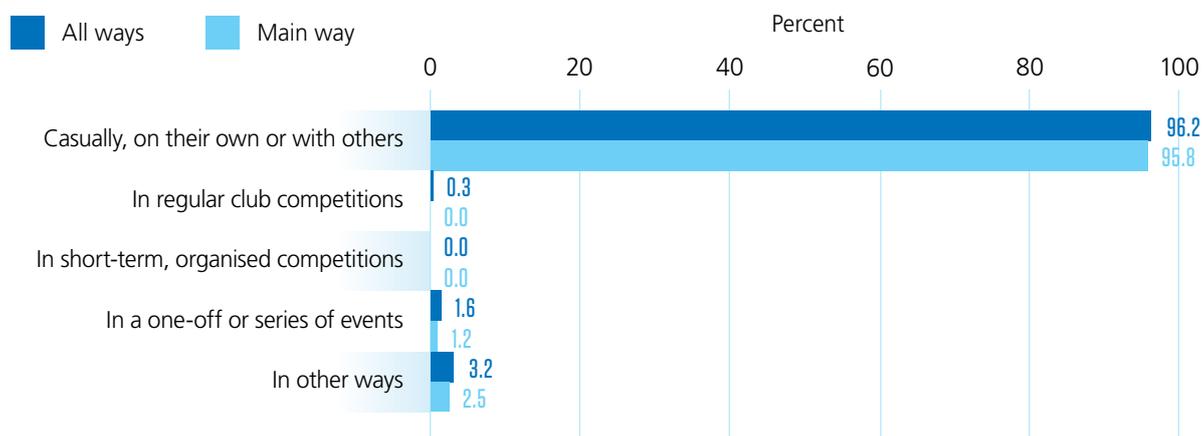
Note: Respondents could provide more than one answer.

Ways Participants Take Part in the Sport

Different ways that participants take part

Almost all trampers (96.2%) participated on a casual basis, either on their own or with others, and this was also the main way they participated (95.8%, see Figure 9).

Figure 9: Ways in which trampers take part



Note: Respondents could provide more than one answer.

Participation with other participants

Most trampers did not go tramping in any organised group (61.9%, see Table 5). When they have done so, this was most commonly arranged by the people who took part in the activity (31.2%).

Table 5: Participation with other participant groups

| Tramping participants | |
|--|------|
| | % |
| A group arranged by the people who take part in the activity | 31.2 |
| An organised group set up by an organisation (eg, local council) | 3.0 |
| A sports team that is part of a sports club | 0.8 |
| Another type of sports team (like a church team) | 0.6 |
| A work-related sports team | 0.0 |
| Other type of group | 5.6 |
| None | 61.9 |

Note: Respondents could provide more than one answer.

Payment types

Table 6 shows almost 9 out of 10 trampers (85.5%) participated in tramping for free; 1 in 10 (10.7%) paid on a per visit, entry or hire basis.

Table 6: Payment types when taking part in tramping

| Tramping participants | |
|---|------|
| | % |
| Could do the activity without paying – it was free | 85.5 |
| Paid per visit, entry or hire | 10.7 |
| Paid by way of my membership at a sport or physical activity club | 2.2 |
| Paid entry costs for a competition or event (as an individual or team member) | 0.9 |
| Paid by way of membership at a gym, swimming pool or recreation centre | 0.3 |
| Paid for a concession card | 0.2 |
| Paid using a community discount card that gives cheaper entry costs | 0.0 |
| Other payment type | 0.4 |

Note: Respondents could provide more than one answer.

Membership of a club or centre

Over the previous 12 months, trampers were most commonly not a member of any club, gym or centre for the purpose of doing the activity (93.9%, see Table 7). Almost 1 in 10 (5.9%) were members of a sport or physical activity club.

Table 7: Membership of a club, gym or centre to take part in tramping

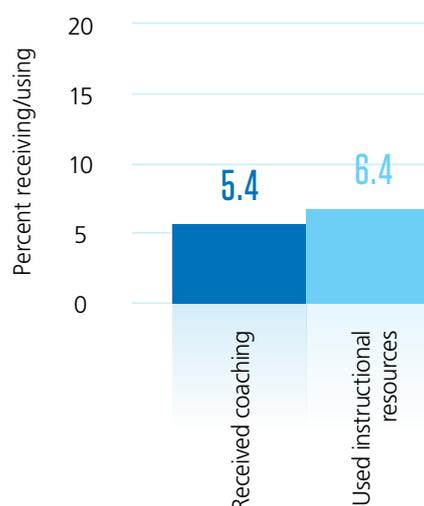
| Tramping participants | |
|--|------------|
| | % |
| Member of ANY club/gym/centre | 6.1 |
| – Member of sport or physical activity club | 5.9 |
| – Member of gym or fitness centre | 0.0 |
| – Member of community leisure or recreation centre | 0.0 |
| – Member of other type of club | 0.2 |
| Not a member of any club/gym/centre | 93.9 |

Note: Respondents could report being a member of each of the four types of club.

Coaching and use of instructional resources

Figure 10 shows that almost 1 in 10 trampers have either received coaching for the sport (5.4%) or have used instructional resources such as online or other books or video (6.4%) in the past 12 months to help improve their performance.

Figure 10: Receipt of coaching and use of instructional resources by trampers

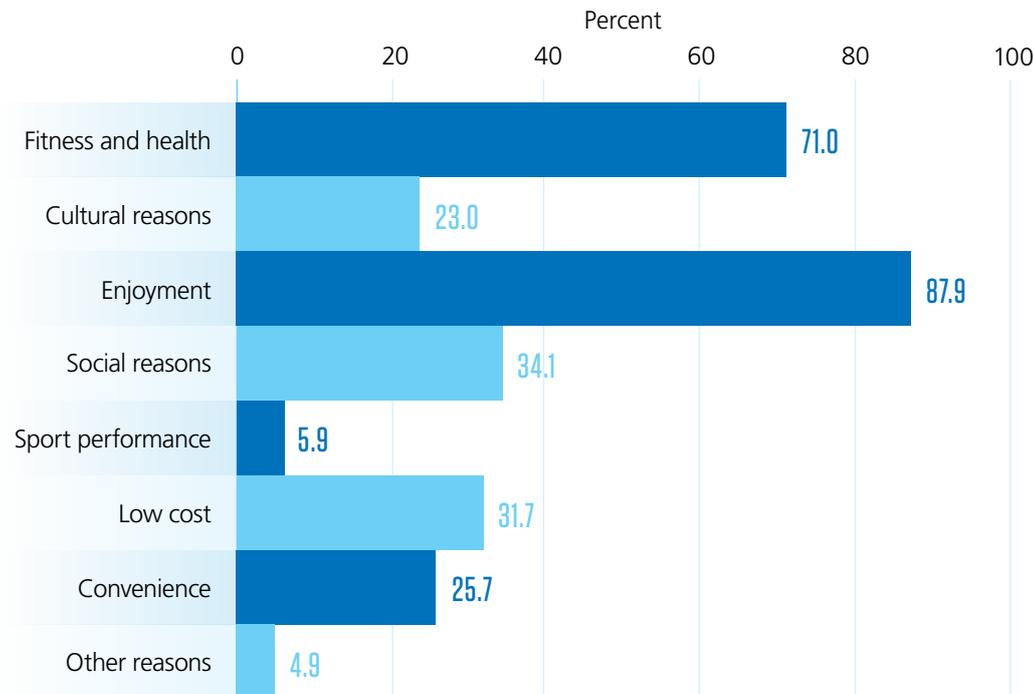


Motivations for and Barriers to Participation

Reasons for taking part

Just under 9 out of 10 trampers (87.9%) went tramping for the enjoyment or the fun of it, followed by just over 7 out of 10 (71.0%) participating for fitness and health reasons (see Figure 11). Similar proportions of trampers identified they went tramping for social reasons (34.1%), convenience reasons (31.7%) and the low cost of participating (25.7%).

Figure 11: Reasons for participating in tramping



Note: Respondents could provide more than one answer.



Interest in trying new activities and barriers to trying

Figure 12 shows that, among all adults, almost 5 out of 10 (46.8%) wanted to try a new sport or activity. Most commonly this included just under 3 out of 10 (28.0%) that wanted to try a new recreational activity (including tramping, but also see below for how activities have been grouped), while almost 1 in 10 (6.3%) wanted to try a team-based sport and just over 1 in 10 (12.5%) wanted to try some type of 'other' sport. Figure 13 shows that 6 out of 10 (59.8%) of those wanting to try a new sport or activity would most like to try a new recreational activity, over 1 in 10 (13.5%) would most like to try a new team-based sport and almost 3 out of 10 (26.7%) would most like to try a type of 'other' sport.

Figure 12: Proportion of all adults wanting to try any new sport or activity, and type of sport/activity

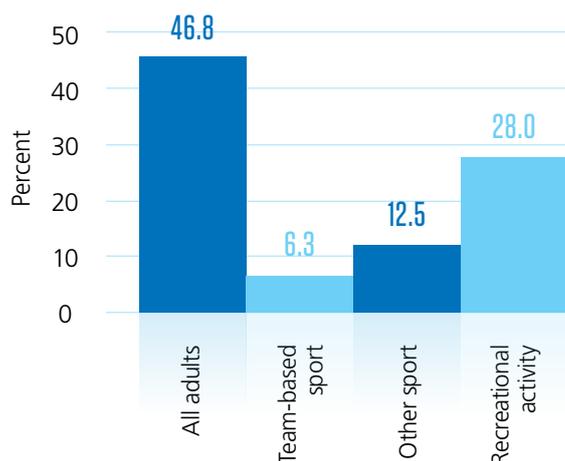
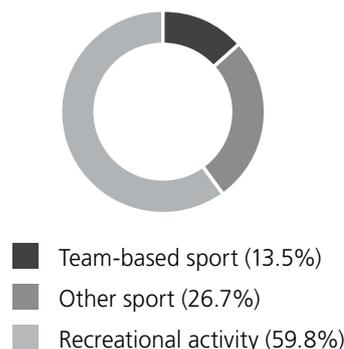


Figure 13: Of those wanting to try a new sport or activity – type of activity would most like to try



Notes:

Team-based sport includes such sports as netball, rugby, football, basketball, cricket, touch rugby and volleyball.

Other sport includes such sports as tennis, golf, martial arts, badminton, bowls and motorsports.

Recreational activity includes walking, fishing, swimming, cycling, jogging/running, dance, canoeing/kayaking; it excludes gardening and 'non-active activity'.

The main barriers to adults trying a new recreational activity (including tramping) were a lack of time, identified by over 5 out of 10 adults (53.5%), and affordability (26.9%, see Table 8).

Table 8: Barriers to trying recreation activities

| All adults who would most like to try a new recreational activity | |
|---|------|
| | % |
| Lack of time | 53.5 |
| Too costly/can't afford it | 26.9 |
| No facilities/parks nearby | 8.7 |
| Poor health/disability/injury | 8.3 |
| Don't have anyone to do the activity with | 6.4 |
| Don't know where to go or who to contact to do the activity | 6.2 |

Notes:

Only barriers identified by more than 5% of respondents are listed.

Respondents could provide more than one answer.

For those adults interested in trying each type of new activity, cost appeared to be a more prominent barrier to trying a new recreational activity than it was to those interested in trying a new team-based sport. On the other hand, poor health, disability or injury appeared to be less of a barrier for those interested in trying a new recreational activity than it was to those interested in trying a new team-based sport.

Interest in doing more of existing activities and barriers to doing more

Figure 14 shows that, among existing participants, over 4 out of 10 (42.7%) were interested in doing more of a sport or activity that they currently participated in. This includes over 3 out of 10 (33.1%) that were interested in doing more of a recreational activity (including tramping), while fewer than 1 in 10 each of those participating in a team-based sport or an other sport would like to do more of that sport (3.7% and 5.9%, respectively). Figure 15 shows that just under 8 out of 10 (77.6%) of those wanting to do more of an existing sport or activity would most like to do more of an existing recreational activity, just under 1 in 10 (8.6%) would most like to do more of an existing team-based sport and over 1 in 10 (13.8%) would most like to do more of an existing type of 'other' sport.

Figure 14: Proportion of all adults wanting to do more of an existing sport or activity, and type of sport/activity

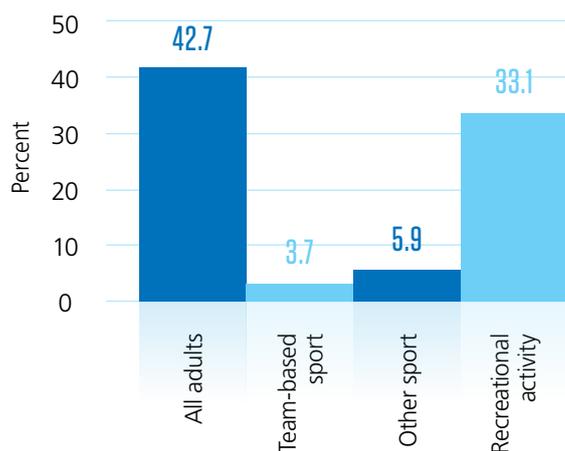
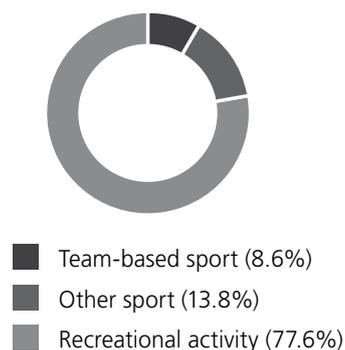


Figure 15: Of those wanting to do more of an existing sport or activity – type of activity would most like to do more of



Notes:

Team-based sport includes such sports as netball, rugby, football, basketball, cricket, touch rugby and volleyball.

Other sport includes such sports as tennis, golf, martial arts, badminton, bowls and motorsports.

Recreational activity includes walking, fishing, swimming, cycling, jogging/running, dance, canoeing/kayaking; it excludes gardening and 'non-active activity'.

The main barrier to participants doing more of an existing recreational activity was a lack of time, identified by almost 7 out of 10 adults (66.3%). This was followed by affordability, identified by 1 in 10 adults (11.0%, see Table 9).

Table 9: Barriers to doing more recreation activities

| Participants who would like to do more of a recreational activity | |
|---|------|
| | % |
| Lack of time | 66.3 |
| Too costly/can't afford it | 11.0 |
| Poor health/disability/Injury | 6.0 |

Notes:

Only barriers identified by more than 5% of respondents are listed.

Respondents could provide more than one answer.

For those participants interested in doing more of each type of existing sport or activity, cost appeared to be less of a barrier to those interested in doing more of a team-based sport than it was to those interested in doing either a type of 'other' sport or a recreational activity.

Trends in Participation: 1997/98 to 2013/14

Figure 16 presents insights into participation trends in tramping between 1997/98 and 2013/14.

Note: The results shown in Figure 16 may differ from corresponding results earlier in this report, and previous trend reporting, because they have been analysed using a different approach. Due to the constraints of the 1997/98 Survey, a different approach (from that used earlier in the report) has also been taken to reporting sub-populations. See Appendix 1 for more information.

Overall, participation in tramping is similar among all adults in 2013/14 compared to 1997/98, although this includes a small increase since 2007/08 off-setting a small decrease between 1997/98 and 2007/08. This pattern is similar among men but among women participation rates are slightly lower in 2013/14 than in 2007/08.

Participation rates have increased between 1997/98 and 2013/14 among adults aged 65 years or over (by 1.2 percentage points), adults aged 25 to 34 years (by 1.0 percentage point) and 50 to 64 years (by 1.2 percentage points), although participation among the latter group is slightly lower than in 2007/08. On the other hand, participation is lower in 2013/14 than in 1997/98 among adults aged 16 to 24 years (by 5.5 percentage points) and those aged 35 to 49 years old, but is higher for each group than in 2007/08.

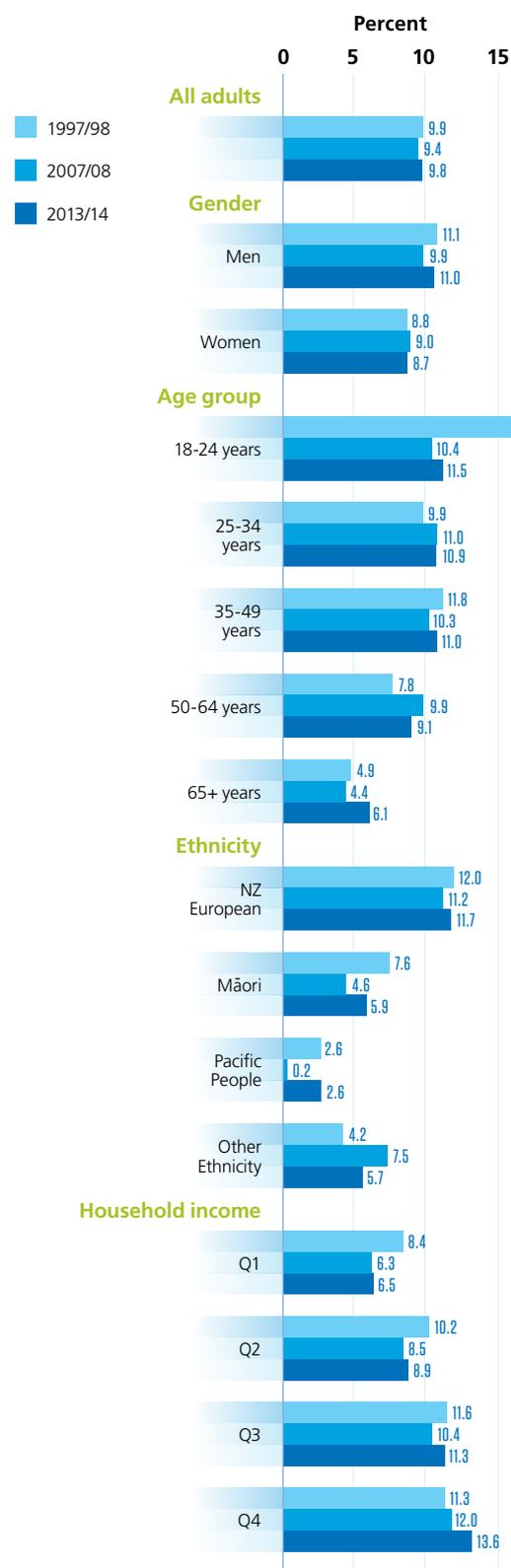
Participation rates are lower in 2013/14 than in 1997/98 among New Zealand Europeans and Māori, but each has a higher participation rate than in 2007/08. The reverse is true among those of Other Ethnicity, while the participation rate among Pacific People is unchanged since 1997/98, after being lower in 2007/08.

Tramping participation rates have increased between 1997/98 and 2013/14 among the upper (Q4) household income group (by 2.3 percentage points). For each other household income group, participation rates in 2013/14 are lower than in 1997/98, although each is higher than in 2007/08.

Key:

- ▲ Significant increase between 2007/08 and 2013/14
- ▼ Significant decrease between 2007/08 and 2013/14
- ▲ Significant increase between 1997/98 and 2013/14
- ▼ Significant decrease between 1997/98 and 2013/14
- Blank or none indicates no significant difference exists.

Figure 16: Trends in participation: Tramping



APPENDIX 1

Notes on Analysis and Statistical Significance

Statistically significant results

Figures from sample surveys like the Active New Zealand Survey (ANZS) are subject to variation that arises from using a randomly drawn sample rather than surveying the total population of interest. It should be noted that analyses to determine whether results in this report are statistically significant have typically **not been calculated**.

Trend analysis

The results in the trend section have been analysed using an approach (the adjusted means from a logistic regression) for comparing results from surveys carried out in different years. The model applied used only the first order interactions of year (1997/98, 2007/08, 2013/14) with each of gender, age group, ethnicity, and household income (quartiles and refused). There were no interactions between the 'controlling' explanatory variables (eg, gender and age group). The participation rates were then estimated in the usual way using the replicated weights to produce sample errors on the predicted participation rate. The participation of each individual is then predicted by assuming all the people came from 2013. The participation rate is then estimated. The difference in these two rates and the sample error on the difference determine whether the difference is significant.

Ethnicity – Survey respondents were able to identify themselves with more than one ethnic group (eg, Māori and Pacific). For the purposes of the trend analysis, respondents may be placed in more than one group if a mix of ethnicities has been identified. Also, Asian only ethnicities were not separately identified in earlier surveys. Consequently the results for an ethnic group cannot be compared with another ethnic group; they can only be compared with results for all adults.

Household income – Household income groups are divided into four quartiles, with the lowest quartile (Q1) representing people with the lowest household incomes, and Q4 being those people with the highest incomes. Some people did not identify their household incomes, and are excluded from these groups and the reporting of findings.

Notes on Definitions of Key Variables

New Zealand Index of Socioeconomic Deprivation (NZDep)

NZDep is an index of socioeconomic deprivation that combines nine variables (household income, including eligibility for means-tested benefits, household ownership, family structure, employment, qualifications, number of bedrooms per household, access to a telephone and access to a car).

The Index is applied to each meshblock (the geographical units used at the first stage of ANZS sample selection). NZDep2006 has been used for the purpose of this reporting, as NZDep2013 was not available at the time of sample selection.

The Index is a scale from 1 to 10. Each point on the scale includes 10% of the New Zealand population. The lower the number, the less deprivation; the higher the number, the more deprivation.

For the purpose of this report, adults have been grouped into three deprivation bands: low (1-3), medium (4-7) and high (8-10) deprivation.

Location

The definitions of the locations used by Statistics New Zealand are:

- Main urban – minimum population of 30,000 and over
- Secondary urban – populations of 10,000 to 29,999
- Minor urban – populations of 1,000 to 9,999, effectively smaller towns
- Rural – remaining areas (eg, townships, crossroad villages), with populations below 1,000.

Main reasons for participating

Those who answered questions about why they participated in different sports/activities were prompted using a showcard with a range of possible reasons. For each activity, respondents could choose more than one of the prompted reasons and/or provide other reasons. Specific reasons were grouped under more generic headings on the showcard; these are reported on in this report. The following table shows the reasons that appeared on the showcard.

| Generic reason | Specific reason |
|--------------------|--|
| Fitness and health | To keep fit (not just to lose weight) |
| | To lose weight/get toned |
| | To relieve stress |
| | To help with an injury |
| | To help with a disability |
| | It provides me with a physical challenge |
| Cultural reasons | It's a way I can connect with my culture |
| | To support my friends and family to take part |
| Enjoyment | Just to enjoy it/It's fun to do |
| Social reasons | To meet with friends |
| | To meet new people |
| | To be part of a club |
| | To be part of a team |
| Sport performance | To train/improve performance |
| | To take part in competition |
| Low cost | It doesn't cost much to do |
| Convenience | I don't need to join a club |
| | I don't need to join a gym |
| | I can take part when the time suits me |
| | I can easily get to places close by to do the activity |

Further information

Further information about the Active New Zealand Survey methodology and/or other reports are available from: www.srknowledge.org.nz/researchseries/active-new-zealand-20132014/



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