## Technical Report

## Contributing

## to the

Active

## Scotland

Outcomes
Framework

June 2020


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## Introduction

This technical report is based on the results of surveys carried out by sportscotland and Sports Governing Bodies (SGBs) to understand sportscotland's contribution to the Active Scotland Outcomes Framework (ASOF) ${ }^{1}$. ASOF is the Scottish Government's policy framework for delivering a more active Scotland. This framework defines the Scottish Government's key goals and targets for sport and physical activity over the next decade.

## Responses

The club survey is made up from data from two primary sources. These were the Supported Club Survey and surveys conducted by Sports Governing Bodies (SGBs). The SGB surveys were distributed by the governing bodies to their members. Surveys were completed via SurveyMonkey and the responses collected from December 2019 to March 2020. In total, 10,971 sports participants responded to the club surveys.

Table 1 below shows the responses for each survey. This indicates that around half ( $49.6 \%$ ) of surveys were received via the Supported Club Survey while around another half (48.1\%) came from SGB surveys. The largest of these SGB surveys were Swimming (1,063 responses, $9.5 \%$ of total) and Gymnastics (1,042 responses, 9.3\% of total).

A further source of data was the Schools Survey that was run concurrently. This data was used to supplement the Under 18 (Junior) data where there were insufficient sport responses to weight the data robustly (Golf, Snowsport, Tennis, Taekwondo, Cricket, Table Tennis, Ju-Jitsu, Squash and Football). These were only included where the Schools Survey respondents were also sports club members. This additional sample of 254 respondents makes up $2.3 \%$ of the total respondents.

Table 1: Survey Data Sources

| Survey Source | n | \% |
| :---: | :---: | :---: |
| sportscotland Supported Club Survey | 5,571 | 49.63\% |
| Sports Governing Body (SGB) Surveys |  |  |
| Archery | 356 | 3.17\% |
| Athletics | 435 | 3.88\% |
| Badminton | 211 | 1.88\% |
| Basketball | 132 | 1.18\% |
| Bowls | 402 | 3.58\% |
| Canoeing | 130 | 1.16\% |
| Cycling | 1 | 0.01\% |
| Equestrian | 77 | 0.69\% |
| Football | 361 | 3.22\% |
| Golf | 316 | 2.82\% |
| Gymnastics | 1,042 | 9.28\% |
| Netball | 126 | 1.12\% |
| Rugby Union | 553 | 4.93\% |
| Shinty | 9 | 0.08\% |
| Squash | 176 | 1.57\% |
| Swimming | 1,063 | 9.47\% |
| Tennis | 10 | 0.09\% |
| Subtotal SGB | 5,400 | 48.11\% |
| Additional Data Source |  |  |
| Supplemental Data from Schools Survey | 254 | 2.26\% |
| Total | 11,225 | 100.00\% |

Table 1: Survey Data Sources

[^0]In Table 2 (below), the totals for each major sport are shown as well as the survey numbers by Under 18 and Over 18 respondents. For the SGB surveys, the SGB sport has been used. However, the responses to the sportscotland survey were open-ended. Therefore, it was necessary to 'clean' the sport names. Due to the open-ended question design, some respondents to the sportscotland survey did not supply a sport. In cases where the sport was missing, this was often possible to impute from a supplied sports club name. However, 719 respondents were unable to be assigned to a sport. Where sports did not have a high number of responses, these have been grouped together as 'Other Sports'.

| Sport | Under 18 | 18 or over | Total Sport | \% of Total |
| :---: | :---: | :---: | :---: | :---: |
| Aerobics And Fitness | 2 | 45 | 47 | 0.42\% |
| American Football | 2 | 28 | 30 | 0.27\% |
| Archery | 23 | 355 | 378 | 3.37\% |
| Athletics | 132 | 630 | 762 | 6.79\% |
| Badminton | 51 | 181 | 232 | 2.07\% |
| Basketball | 177 | 177 | 354 | 3.15\% |
| Bowls | 10 | 438 | 448 | 3.99\% |
| Boxing | 51 | 208 | 259 | 2.31\% |
| Canoeing | 4 | 164 | 168 | 1.50\% |
| Cheerleading | 15 | 19 | 34 | 0.30\% |
| Cricket | 18 | 48 | 66 | 0.59\% |
| Curling | 4 | 149 | 153 | 1.36\% |
| Cycling | 59 | 300 | 359 | 3.20\% |
| Dance | 15 | 24 | 39 | 0.35\% |
| Disability Sport | 0 | 24 | 24 | 0.21\% |
| Equestrian | 7 | 98 | 105 | 0.94\% |
| Fencing | 12 | 30 | 42 | 0.37\% |
| Football | 236 | 605 | 841 | 7.49\% |
| Golf | 21 | 435 | 456 | 4.06\% |
| Gymnastics | 666 | 499 | 1,165 | 10.38\% |
| Hockey | 22 | 114 | 136 | 1.21\% |
| Ice Hockey | 22 | 27 | 49 | 0.44\% |
| Ice Skating | 10 | 51 | 61 | 0.54\% |
| Ju-Jitsu | 2 | 22 | 24 | 0.21\% |
| Judo | 107 | 178 | 285 | 2.54\% |
| Karate | 31 | 87 | 118 | 1.05\% |
| Martial Arts | 2 | 14 | 16 | 0.14\% |
| Muay Thai | 3 | 28 | 31 | 0.28\% |
| Netball | 54 | 259 | 313 | 2.79\% |
| Orienteering | 5 | 109 | 114 | 1.02\% |
| Rambling | 0 | 27 | 27 | 0.24\% |
| Roller Derby | 0 | 21 | 21 | 0.19\% |
| Rowing | 26 | 151 | 177 | 1.58\% |
| Rugby Union | 70 | 701 | 771 | 6.87\% |
| Sailing | 0 | 15 | 15 | 0.13\% |
| Scuba Diving | 0 | 10 | 10 | 0.09\% |
| Shinty | 9 | 46 | 55 | 0.49\% |
| Shooting | 0 | 10 | 10 | 0.09\% |
| Snowsport | 21 | 27 | 48 | 0.43\% |
| Squash | 10 | 174 | 184 | 1.64\% |
| Swimming | 583 | 674 | 1,257 | 11.20\% |
| Table Tennis | 6 | 61 | 67 | 0.60\% |
| Taekwondo | 69 | 36 | 105 | 0.94\% |
| Tennis | 62 | 203 | 265 | 2.36\% |
| Trampoline | 51 | 25 | 76 | 0.68\% |
| Triathlon | 10 | 172 | 182 | 1.62\% |
| Volleyball | 19 | 35 | 54 | 0.48\% |
| Weightlifting | 3 | 23 | 26 | 0.23\% |
| Other Sports | 7 | 40 | 47 | 0.42\% |
| Not Stated | 152 | 567 | 719 | 6.41\% |
| Total | 2,861 | 8,364 | 11,225 | 100.00\% |

[^1]
## Survey Design

The questionnaire, whether collected directly via sportscotland or by the SGB, followed identical designs with the exception of the archery survey. This version contained questions specific to archery albeit with some correspondences to the standard design.

Within the survey, there were three sets of questions. These were designed specifically for different age groups. The question sets included an adult version for those aged 18 or over, a youth survey for those aged 13-17 years old and a child survey for those aged 8-12 years old. Notably, the child and youth surveys had very similar question sets with some questions omitted or simplified for children compared to the youth version of the survey. Furthermore, the adult survey contained many questions in common with the youth and child surveys.

It should be noted though that, even where outcomes for responses are similar, the age specific question sets are designed to capture different measurements. For example, physical activity levels are calculated differently for adults and children while questions around sensitive issues such as disability are asked differently to adults compared to children. In the case of physical activity, this meant an entirely different set of questions was used to calculate activity levels.

## Survey Weighting

Part of the requirement to produce the survey results was the use of a weighting. This was specified to be reflective of the membership of the SGBs. For this purpose, a membership list was collated showing the SGB membership by age and gender.

A version of this list is shown on Table 3 on the following page. Note that where the membership of some SGBs was low or incomplete, these were collated into the 'Other Sport' category. The percentages shown in the last four columns of the table are calculated as percentages of each sport and gender by junior and adult membership. As a result, when the percentages for each gender and sport are added for all combinations, the sum is $100 \%$. Additional figures for the percentages of males and females by junior and adult as well as the percentage of junior versus adult overall are shown in the bottom two rows.

Notably, when the memberships of these SGBs are added together by gender, at a junior level there is roughly a $2 / 3: 1 / 3$ split between male and female members. At an adult level, this difference is even more pronounced with over $76 \%$ of members being male and only $24 \%$ female. Thus, sports club membership, especially at an adult level, is dominated by males.

However, it should be noted that these figures are not direct indicators of sports participation per se. For example, these figures will not include those taking part in non-SGB club activities such as most aerobics classes, yoga, gym memberships, exercise at home or non-competitive types of running such as jogging. It is entirely possible that these activities have gender biases of their own that will not be measured in club membership statistics. Therefore, the membership list is not a comprehensive list of those engaging in sporting activity but is, instead, exclusively made up of SGB sport club memberships. For this reason, it may not be a good indicator of sports participation by gender in general.

Table3: sportscotland Counts and Percentages of Club Members

| Sport | Junior $n$ |  | Adult $n$ |  | Junior \% |  | Adult \% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male | Female | Male | Female | Male | Female | Male |
| Archery | 458 | 748 | 622 | 1,178 | 0.06\% | 0.10\% | 0.08\% | 0.16\% |
| Athletics | 4,629 | 4,312 | 4,164 | 5,696 | 0.62\% | 0.57\% | 0.55\% | 0.76\% |
| Badminton | 1,132 | 2,635 | 1,282 | 2,352 | 0.15\% | 0.35\% | 0.17\% | 0.31\% |
| Basketball | 1,771 | 3,668 | 710 | 2,027 | 0.24\% | 0.49\% | 0.09\% | 0.27\% |
| Bowls | 654 | 982 | 16,636 | 41,293 | 0.09\% | 0.13\% | 2.21\% | 5.49\% |
| Boxing | 154 | 1,192 | 1,085 | 3,028 | 0.02\% | 0.16\% | 0.14\% | 0.40\% |
| Canoeing | 433 | 679 | 1,260 | 1,654 | 0.06\% | 0.09\% | 0.17\% | 0.22\% |
| Cricket | 240 | 6,050 | 200 | 5,200 | 0.03\% | 0.80\% | 0.03\% | 0.69\% |
| Curling | 347 | 555 | 3,800 | 6,721 | 0.05\% | 0.07\% | 0.51\% | 0.89\% |
| Cycling | 504 | 2,219 | 1,673 | 7,370 | 0.07\% | 0.29\% | 0.22\% | 0.98\% |
| Disability Sport |  |  | 153 | 222 |  |  | 0.02\% | 0.03\% |
| Fencing | 152 | 272 | 206 | 332 | 0.02\% | 0.04\% | 0.03\% | 0.04\% |
| Football | 10,320 | 74,539 | 2,136 | 44,181 | 1.37\% | 9.91\% | 0.28\% | 5.87\% |
| Golf | 2,597 | 12,917 | 21,364 | 143,403 | 0.35\% | 1.72\% | 2.84\% | 19.06\% |
| Gymnastics | 23,908 | 4,192 | 1,790 | 379 | 3.18\% | 0.56\% | 0.24\% | 0.05\% |
| Hockey | 3,880 | 2,479 | 2,888 | 2,584 | 0.52\% | 0.33\% | 0.38\% | 0.34\% |
| Ju-Jitsu | 18 | 48 | 12 | 52 | 0.00\% | 0.01\% | 0.00\% | 0.01\% |
| Judo | 2,211 | 4,872 | 251 | 1,051 | 0.29\% | 0.65\% | 0.03\% | 0.14\% |
| Karate | 4,537 | 7,121 | 1,035 | 1,955 | 0.60\% | 0.95\% | 0.14\% | 0.26\% |
| Netball | 3,013 | 7 | 3,605 | 19 | 0.40\% | 0.00\% | 0.48\% | 0.00\% |
| Orienteering | 303 | 409 | 552 | 656 | 0.04\% | 0.05\% | 0.07\% | 0.09\% |
| Rowing | 681 | 673 | 836 | 993 | 0.09\% | 0.09\% | 0.11\% | 0.13\% |
| Rugby Union | 1,533 | 16,861 | 2,239 | 16,735 | 0.20\% | 2.24\% | 0.30\% | 2.22\% |
| Scuba Diving | . |  | 184 | 806 |  |  | 0.02\% | 0.11\% |
| Shinty | 528 | 1,220 | 394 | 1,306 | 0.07\% | 0.16\% | 0.05\% | 0.17\% |
| Shooting |  |  | 304 | 1,862 |  |  | 0.04\% | 0.25\% |
| Snowsport | 1,092 | 1,572 | 1,289 | 2,102 | 0.15\% | 0.21\% | 0.17\% | 0.28\% |
| Squash | 506 | 1,016 | 1,084 | 4,355 | 0.07\% | 0.14\% | 0.14\% | 0.58\% |
| Swimming | 7,536 | 5,160 | 6,798 | 3,430 | 1.00\% | 0.69\% | 0.90\% | 0.46\% |
| Table Tennis | 47 | 270 | 113 | 1,067 | 0.01\% | 0.04\% | 0.02\% | 0.14\% |
| Taekwondo | 5,505 | 7,196 | 2,168 | 3,059 | 0.73\% | 0.96\% | 0.29\% | 0.41\% |
| Tennis | 9,838 | 14,124 | 15,274 | 18,258 | 1.31\% | 1.88\% | 2.03\% | 2.43\% |
| Triathlon | 407 | 384 | 1,492 | 2,083 | 0.05\% | 0.05\% | 0.20\% | 0.28\% |
| Volleyball | 365 | 371 | 510 | 513 | 0.05\% | 0.05\% | 0.07\% | 0.07\% |
| Other Sports | 2,989 | 4,520 | 15,799 | 35,048 | 0.40\% | 0.60\% | 2.10\% | 4.66\% |
| Total | 92,288 | 183,263 | 113,908 | 362,970 | 12.27\% | 24.36\% | 15.14\% | 48.24\% |
| \% Female vs. Male |  |  |  |  | 33.49\% | 66.51\% | 23.89\% | 76.11\% |
| Overall Junior/Adult | 275 | 551 | 476,8 |  | 36.6 |  | 63.3 |  |

Table 3: sportscotland Counts and Percentages of Club Members

Table 4 （below）shows the raw survey counts for the same sports excluding those where a sport was not stated．One major difference to the membership list is that the survey contained an additional option of＇prefer not to say＇for gender．There were also a number of responses where this question had been left blank．In the adult survey，those who stated＇prefer not to say＇or did not answer the question totalled $n=1,705$ of 7,797 respondents（almost $22 \%$ of respondents）while in the junior survey the total was $n=390$ of 2,709 respondents（around $14 \%$ of respondents）．

Table 4：Unadjusted Counts and Percentages of Respondents by Sport，Gender and Junior／Adult
（Excl．Sport Not Stated，Rounded to 1 D．P．）

|  | Junior（Under－18） |  |  |  | Adult（18 or Over） |  |  |  | Junior（Under－18） |  |  |  | Adult（18 or Over） |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sport | $\begin{aligned} & \frac{\otimes}{N} \\ & \underset{\sim}{\pi} \\ & \underset{\sim}{4} \end{aligned}$ | $\frac{0}{\sum_{0}^{10}}$ |  | $\begin{aligned} & \stackrel{00}{⿳ 亠 丷 厂 彡} \\ & \stackrel{W}{\Sigma} \end{aligned}$ |  | $\frac{0}{\sum_{\Sigma}^{\pi}}$ |  | $\begin{aligned} & \stackrel{00}{\sqrt[H]{y}} \\ & \stackrel{y}{\Sigma} \end{aligned}$ | $\begin{aligned} & \frac{\underset{N}{N}}{\stackrel{1}{0}} \\ & \stackrel{y}{4} \end{aligned}$ | $\frac{\Delta}{\sum^{\pi}}$ |  |  |  | $\frac{\frac{0}{N}}{\Sigma}$ |  | $\begin{aligned} & \stackrel{\infty}{\hat{W}} \\ & \stackrel{\omega}{\Sigma} \end{aligned}$ |
| Archery | 7 | 12 | 1 | 3 | 96 | 196 | 8 | 55 | 0．3\％ | 0．4\％ | 0．0\％ | 0．1\％ | 1．2\％ | 2．5\％ | 0．1\％ | 0．7\％ |
| Athletics | 65 | 43 | 1 | 23 | 273 | 252 | 8 |  | 2．4\％ | 1．6\％ | 0．0\％ | 0．8\％ | 3．5\％ | 3．2\％ | 0．1\％ | 1．2\％ |
| Badminton | 11 | 27 | 1 | 12 | 54 | 80 | 1 |  | 0．4\％ | 1．0\％ | 0．0\％ | 0．4\％ | 0．7\％ | 1．0\％ | 0．0\％ | 0．6\％ |
| Basketball | 38 | 105 | 1 | 33 | 48 | 93 | 1 | 35 | 1．4\％ | 3．9\％ | 0．0\％ | 1．2\％ | 0．6\％ | 1．2\％ | 0．0\％ | 0．4\％ |
| Bowls | 1 | 2 | 0 | 7 | 88 | 205 | 2 | 143 | 0．0\％ | 0．1\％ | 0．0\％ | 0．3\％ | 1．1\％ | 2．6\％ | 0．0\％ | 1．8\％ |
| Boxing | 10 | 33 | 0 | 8 | 93 | 90 | 1 |  | 0．4\％ | 1．2\％ | 0．0\％ | 0．3\％ | 1．2\％ | 1．2\％ | 0．0\％ | 0．3\％ |
| Canoeing | 1 | 3 | 0 | 0 | 61 | 100 | 0 | 3 | 0．0\％ | 0．1\％ | 0．0\％ | 0．0\％ | 0．8\％ | 1．3\％ | 0．0\％ | 0．0\％ |
| Cricket | 3 | 14 | 1 | 0 | 4 | 32 | 3 | 9 | 0．1\％ | 0．5\％ | 0．0\％ | 0．0\％ | 0．1\％ | 0．4\％ | 0．0\％ | 0．1\％ |
| Curling | 1 | 3 | 0 | 0 | 61 | 78 | 1 | 9 | 0．0\％ | 0．1\％ | 0．0\％ | 0．0\％ | 0．8\％ | 1．0\％ | 0．0\％ | 0．1\％ |
| Cycling | 8 | 46 | 0 | 5 | 89 | 188 | 3 | 20 | 0．3\％ | 1．7\％ | 0．0\％ | 0．2\％ | 1．1\％ | 2．4\％ | 0．0\％ | 0．3\％ |
| Disability Sport | 0 | 0 | 0 | 0 | 7 | 14 | 1 | 2 | 0．0\％ | 0．0\％ | 0．0\％ | 0．0\％ | 0．1\％ | 0．2\％ | 0．0\％ | 0．0\％ |
| Fencing | 4 | 8 | 0 | 0 | 14 | 14 | 1 | 1 | 0．1\％ | 0．3\％ | 0．0\％ | 0．0\％ | 0．2\％ | 0．2\％ | 0．0\％ | 0．0\％ |
| Football | 33 | 180 | 1 | 22 | 131 | 310 | 4 | 160 | 1．2\％ | 6．6\％ | 0．0\％ | 0．8\％ | 1．7\％ | 4．0\％ | 0．1\％ | 2．1\％ |
| Golf | 8 | 13 | 0 | 0 | 69 | 299 | 2 | 65 | 0．3\％ | 0．5\％ | 0．0\％ | 0．0\％ | 0．9\％ | 3．8\％ | 0．0\％ | 0．8\％ |
| Gymnastics | 529 | 42 | 3 | 92 | 258 | 29 | 5 | 207 | 19．5\％ | 1．6\％ | 0．1\％ | 3．4\％ | 3．3\％ | 0．4\％ | 0．1\％ | 2．7\％ |
| Hockey | 7 | 10 | 1 | 4 | 58 | 45 | 0 | 11 | 0．3\％ | 0．4\％ | 0．0\％ | 0．1\％ | 0．7\％ | 0．6\％ | 0．0\％ | 0．1\％ |
| Ju－Jitsu | 1 | 1 | 0 | 0 | 5 | 13 | 1 | 3 | 0．0\％ | 0．0\％ | 0．0\％ | 0．0\％ | 0．1\％ | 0．2\％ | 0．0\％ | 0．0\％ |
| Judo | 41 | 60 | 0 | 6 | 52 | 98 | 0 | 28 | 1．5\％ | 2．2\％ | 0．0\％ | 0．2\％ | 0．7\％ | 1．3\％ | 0．0\％ | 0．4\％ |
| Karate | 11 | 18 | 1 | 1 | 40 | 37 | 1 | 9 | 0．4\％ | 0．7\％ | 0．0\％ | 0．0\％ | 0．5\％ | 0．5\％ | 0．0\％ | 0．1\％ |
| Netball | 48 | 0 | 0 | 6 | 222 | 1 | 0 | 36 | 1．8\％ | 0．0\％ | 0．0\％ | 0．2\％ | 2．8\％ | 0．0\％ | 0．0\％ | 0．5\％ |
| Orienteering | 1 | 3 | 0 | 1 | 48 | 58 | 1 | 2 | 0．0\％ | 0．1\％ | 0．0\％ | 0．0\％ | 0．6\％ | 0．7\％ | 0．0\％ | 0．0\％ |
| Rowing | 16 | 8 | 0 | 2 | 78 | 63 | 0 | 10 | 0．6\％ | 0．3\％ | 0．0\％ | 0．1\％ | 1．0\％ | 0．8\％ | 0．0\％ | 0．1\％ |
| Rugby Union | 8 | 41 | 0 | 21 | 74 | 366 | 2 | 259 | 0．3\％ | 1．5\％ | 0．0\％ | 0．8\％ | 0．9\％ | 4．7\％ | 0．0\％ | 3．3\％ |
| Scuba Diving | 0 | 0 | 0 | 0 | 4 | 6 | 0 | 0 | 0．0\％ | 0．0\％ | 0．0\％ | 0．0\％ | 0．1\％ | 0．1\％ | 0．0\％ | 0．0\％ |
| Shinty | 4 | 3 | 1 | 1 | 18 | 19 | 0 | 9 | 0．1\％ | 0．1\％ | 0．0\％ | 0．0\％ | 0．2\％ | 0．2\％ | 0．0\％ | 0．1\％ |
| Shooting | 0 | 0 | 0 | 0 | 2 | 7 | 1 | 0 | 0．0\％ | 0．0\％ | 0．0\％ | 0．0\％ | 0．0\％ | 0．1\％ | 0．0\％ | 0．0\％ |
| Snowsport | 9 | 12 | 0 | 0 | 11 | 11 | 1 | 4 | 0．3\％ | 0．4\％ | 0．0\％ | 0．0\％ | 0．1\％ | 0．1\％ | 0．0\％ | 0．1\％ |
| Squash | 6 | 4 | 0 | 0 | 36 | 94 | 1 | 43 | 0．2\％ | 0．1\％ | 0．0\％ | 0．0\％ | 0．5\％ | 1．2\％ | 0．0\％ | 0．6\％ |
| Swimming | 282 | 186 | 2 | 113 | 249 | 163 | 4 | 258 | 10．4\％ | 6．9\％ | 0．1\％ | 4．2\％ | 3．2\％ | 2．1\％ | 0．1\％ | 3．3\％ |
| Table Tennis | 0 | 5 | 0 | 1 | 12 | 41 | 0 | 8 | 0．0\％ | 0．2\％ | 0．0\％ | 0．0\％ | 0．2\％ | 0．5\％ | 0．0\％ | 0．1\％ |
| Taekwondo | 33 | 34 | 2 | 0 | 17 | 16 | 1 | 2 | 1．2\％ | 1．3\％ | 0．1\％ | 0．0\％ | 0．2\％ | 0．2\％ | 0．0\％ | 0．0\％ |
| Tennis | 22 | 39 | 0 | 1 | 106 | 79 | 1 | 17 | 0．8\％ | 1．4\％ | 0．0\％ | 0．0\％ | 1．4\％ | 1．0\％ | 0．0\％ | 0．2\％ |
| Triathlon | 4 | 6 | 0 | 0 | 87 | 80 | 0 | 5 | 0．1\％ | 0．2\％ | 0．0\％ | 0．0\％ | 1．1\％ | 1．0\％ | 0．0\％ | 0．1\％ |
| Volleyball | 9 | 7 | 0 | 3 | 13 | 19 | 0 | 3 | 0．3\％ | 0．3\％ | 0．0\％ | 0．1\％ | 0．2\％ | 0．2\％ | 0．0\％ | 0．0\％ |
| Other Sports | 96 | 34 | 0 | 9 | 280 | 138 | 7 | 60 | 3．5\％ | 1．3\％ | 0．0\％ | 0．3\％ | 3．6\％ | 1．8\％ | 0．1\％ | 0．8\％ |
| Total | 1，317 | 1，002 | 16 | 374 | 2，758 | 3，334 |  | 1，643 | 48．6\％ | 37．0\％ | 0．6\％ | 13．8\％ | 35．4\％ | 42．8\％ | 0．8\％ | 21．1\％ |

Table 4：Unadjusted Counts and Percentages of Respondents by Sport，Gender and Junior／Adult（Excl．Sport Not Stated）
These omissions are important from a weighting perspective as all respondents require a weight． Typically，where missing values are less numerous，it is often possible to assign all missing responses to the most prevalent gender of their weighting group．However，due to the volume of responses missing in this instance，it was necessary to use a different methodology．

This methodology involved using the responses for each sport overall to estimate the likely gender split of responses where the gender was unknown. Due to low cell counts, especially at the junior level, the reassignment was calculated at the overall level i.e. junior and adult combined. Those who had not stated male or female were randomly assigned a gender for weighting purposes in line with the proportions of known gender responses for each sport overall.

Table 5 (below) shows the imputed genders of respondents following random assignment. Notably, the random assignments of gender are close to the known survey gender distributions. However, some variation remains as the random values chosen will not be exact replications of the known percentages due to the random assignment of genders - especially where there are low numbers in some sports.

Table 5: Survey Percentages of Male and Females by Sport: Known and Imputed (Excl. Sport Not Stated)

| Sport | All Respondents (junior and adult) |  |  |  | Overall Known |  | Overall Imputed |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male | Prefer not to say | Missing | Female \% | Male \% | Female \% | Male \% |
| Archery | 103 | 208 | 9 | 58 | 33.12\% | 66.88\% | 33.86\% | 66.14\% |
| Athletics | 338 | 295 | 9 | 120 | 53.40\% | 46.60\% | 52.89\% | 47.11\% |
| Badminton | 65 | 107 | 2 | 58 | 37.79\% | 62.21\% | 38.79\% | 61.21\% |
| Basketball | 86 | 198 | 2 | 68 | 30.28\% | 69.72\% | 30.79\% | 69.21\% |
| Bowls | 89 | 207 | 2 | 150 | 30.07\% | 69.93\% | 30.80\% | 69.20\% |
| Boxing | 103 | 123 | 1 | 32 | 45.58\% | 54.42\% | 46.33\% | 53.67\% |
| Canoeing | 62 | 103 | 0 | 3 | 37.58\% | 62.42\% | 38.10\% | 61.90\% |
| Cricket | 7 | 46 | 4 | 9 | 13.21\% | 86.79\% | 12.12\% | 87.88\% |
| Curling | 62 | 81 | 1 | 9 | 43.36\% | 56.64\% | 45.75\% | 54.25\% |
| Cycling | 97 | 234 | 3 | 25 | 29.31\% | 70.69\% | 29.81\% | 70.19\% |
| Disability Sport | 7 | 14 | 1 | 2 | 33.33\% | 66.67\% | 29.17\% | 70.83\% |
| Fencing | 18 | 22 | 1 | 1 | 45.00\% | 55.00\% | 45.24\% | 54.76\% |
| Football | 164 | 490 | 5 | 182 | 25.08\% | 74.92\% | 24.14\% | 75.86\% |
| Golf | 77 | 312 | 2 | 65 | 19.79\% | 80.21\% | 18.64\% | 81.36\% |
| Gymnastics | 787 | 71 | 8 | 299 | 91.72\% | 8.28\% | 91.33\% | 8.67\% |
| Hockey | 65 | 55 | 1 | 15 | 54.17\% | 45.83\% | 55.15\% | 44.85\% |
| Ju-Jitsu | 6 | 14 | 1 | 3 | 30.00\% | 70.00\% | 29.17\% | 70.83\% |
| Judo | 93 | 158 | 0 | 34 | 37.05\% | 62.95\% | 37.19\% | 62.81\% |
| Karate | 51 | 55 | 2 | 10 | 48.11\% | 51.89\% | 51.69\% | 48.31\% |
| Netball | 270 | 1 | 0 | 42 | 99.63\% | 0.37\% | 99.36\% | 0.64\% |
| Orienteering | 49 | 61 | 1 | 3 | 44.55\% | 55.45\% | 44.74\% | 55.26\% |
| Rowing | 94 | 71 | 0 | 12 | 56.97\% | 43.03\% | 57.63\% | 42.37\% |
| Rugby Union | 82 | 407 | 2 | 280 | 16.77\% | 83.23\% | 16.34\% | 83.66\% |
| Scuba Diving | 4 | 6 | 0 | 0 | 40.00\% | 60.00\% | 40.00\% | 60.00\% |
| Shinty | 22 | 22 | 1 | 10 | 50.00\% | 50.00\% | 49.09\% | 50.91\% |
| Shooting | 2 | 7 | 1 | 0 | 22.22\% | 77.78\% | 30.00\% | 70.00\% |
| Snowsport | 20 | 23 | 1 | 4 | 46.51\% | 53.49\% | 45.83\% | 54.17\% |
| Squash | 42 | 98 | 1 | 43 | 30.00\% | 70.00\% | 30.43\% | 69.57\% |
| Swimming | 531 | 349 | 6 | 371 | 60.34\% | 39.66\% | 60.14\% | 39.86\% |
| Table Tennis | 12 | 46 | 0 | 9 | 20.69\% | 79.31\% | 19.40\% | 80.60\% |
| Taekwondo | 50 | 50 | 3 | 2 | 50.00\% | 50.00\% | 49.52\% | 50.48\% |
| Tennis | 128 | 118 | 1 | 18 | 52.03\% | 47.97\% | 50.94\% | 49.06\% |
| Triathlon | 91 | 86 | 0 | 5 | 51.41\% | 48.59\% | 52.20\% | 47.80\% |
| Volleyball | 22 | 26 | 0 | 6 | 45.83\% | 54.17\% | 42.59\% | 57.41\% |
| Other Sports | 376 | 172 | 7 | 69 | 68.61\% | 31.39\% | 68.75\% | 31.25\% |
| Total | 4,075 | 4,336 | 78 | 2,017 | 48.45\% | 51.55\% | 48.25\% | 51.75\% |

[^2]Table 5: Survey Percentages of Male and Females by Sport: Known and Imputed (Excl. Sport Not Stated)

Although the data was not adjusted for missing male/female split at the junior/adult level, Table 6 (below) shows that the imputed values are close to the known male and female percentages at both the junior and adult level.

Table 6: Survey Percentages of Male and Females by Sport and Age: Known and Imputed (Excl. Sport Not Stated, \% Rounded to 1 D.P.)

| Sport | Junior (Under-18) |  |  |  | Adult (18 or Over) |  |  |  | Junior (Under-18) |  |  |  | Adult (18 or Over) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\frac{\stackrel{\otimes}{\pi}}{\frac{1}{\Sigma}}$ |  |  |  | $\begin{aligned} & \frac{\varrho}{N} \\ & \Sigma \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| Archery | 7 | 12 | 1 | 3 | 96 | 196 | 8 | 55 | 36.8\% | 63.2\% | 34.8\% | 65.2\% | 32.9\% | \% 67.1\% | 33.8\% 66.2\% |
| Athletics | 65 | 43 | 1 | 23 | 273 | 252 | 8 |  | 60.2\% | 39.8\% | 59.8\% | 40.2\% | 52.0\% | \% 48.0\% | 51.4\% 48.6\% |
| Badminton | 1 | 27 | 1 |  | 54 | 80 | 1 |  | 28.9\% | 71.1\% | 31.4\% | 68.6\% | 40.3\% | \% 59.7\% | 40.9\% 59.1\% |
| Basketball | 38 | 105 | 1 | 33 | 48 | 93 | 1 | 35 | 26.6\% | 73.4\% | 27.7\% | 72.3\% | 34.0\% | \% 66.0\% | 33.9\% 66.1\% |
| Bowls |  | 2 | 0 |  | 88 | 205 | 2 | 143 | 33.3\% | 66.7\% | 40.0\% | 60.0\% | 30.0\% | \% 70.0\% | 30.6\% 69.4\% |
| Boxing | 10 | 33 | 0 | 8 | 93 | 90 | 1 | 24 | 23.3\% | 76.7\% | 29.4\% | 70.6\% | 50.8\% | \% 49.2\% | 50.5\% 49.5\% |
| Canoeing |  | 3 | 0 | 0 | 61 | 100 | 0 |  | 25.0\% | 75.0\% | 25.0\% | 75.0\% | 37.9\% | \% 62.1\% | 38.4\% 61.6\% |
| Cricket |  | 14 | 1 | 0 | 4 | 32 | 3 | 9 | 17.6\% | 82.4\% | 16.7\% | 83.3\% | 11.1\% | \% 88.9\% | 10.4\% 89.6\% |
| Curling |  | 3 | 0 | 0 | 61 | 78 | 1 |  | 25.0\% | 75.0\% | 25.0\% | 75.0\% | 43.9\% | \% 56.1\% | 46.3\% 53.7\% |
| Cycling |  | 46 | 0 | 5 | 89 | 188 | 3 | 20 | 14.8\% | 85.2\% | 18.6\% | 81.4\% | 32.1\% | \% 67.9\% | 32.0\% 68.0\% |
| Disability Sport |  | 0 | 0 | 0 | 7 | 14 | 1 | 2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | \% 66.7\% | 29.2\% 70.8\% |
| Fencing |  | 8 | 0 | 0 | 14 | 14 | 1 | 1 | 33.3\% | 66.7\% | 33.3\% | 66.7\% | 50.0\% | \% 50.0\% | 50.0\% 50.0\% |
| Football | 33 | 180 | 1 | 22 | 131 | 310 | 4 | 160 | 15.5\% | 84.5\% | 15.3\% | 84.7\% | 29.7\% | \% 70.3\% | 27.6\% 72.4\% |
| Golf |  | 13 | 0 | 0 | 69 | 299 | 2 | 65 | 38.1\% | 61.9\% | 0.0\% | 00.0\% | 18.8\% | \% 81.3\% | 19.5\% 80.5\% |
| Gymnastics | 529 | 42 | 3 | 92 | 258 | 29 | 5 | 207 | 92.6\% | 7.4\% | 92.5\% | 7.5\% | 89.9\% | \% 10.1\% | 89.8\% 10.2\% |
| Hockey |  | 10 | 1 | 4 | 58 | 45 | 0 | 11 | 41.2\% | 58.8\% | 50.0\% | 50.0\% | 56.3\% | \% 43.7\% | 56.1\% 43.9\% |
| Ju-Jitsu |  | 1 | 0 | 0 | 5 | 13 | 1 | 3 | 50.0\% | 50.0\% | 50.0\% | 50.0\% | 27.8\% | \% 72.2\% | 27.3\% 72.7\% |
| Judo | 41 | 60 | 0 | 6 | 52 | 98 | 0 | 28 | 40.6\% | 59.4\% | 42.1\% | 57.9\% | 34.7\% | \% 65.3\% | 34.3\% 65.7\% |
| Karate | 11 | 18 | 1 | 1 | 40 | 37 | 1 | 9 | 37.9\% | 62.1\% | 41.9\% | 58.1\% | 51.9\% | \% 48.1\% | 55.2\% 44.8\% |
| Netball | 48 | 0 | 0 | 6 | 222 | - 1 | 0 | 36 | 100.0\% | 0.0\% | 100.0\% | 0.0\% | 99.6\% | \% 0.4\% | 99.2\% 0.8\% |
| Orienteering |  | 3 | 0 | 1 | 48 | 58 | 1 | 2 | 25.0\% | 75.0\% | 40.0\% | 60.0\% | 45.3\% | \% 54.7\% | 45.0\% 55.0\% |
| Rowing | 16 | 8 | 0 | 2 | 78 | 63 | 0 | 10 | 66.7\% | 33.3\% | 69.2\% | 30.8\% | 55.3\% | \% 44.7\% | 55.6\% 44.4\% |
| Rugby Union |  | 41 | 0 | 21 | 74 | 366 | 2 | 259 | 16.3\% | 83.7\% | 17.1\% | 82.9\% | 16.8\% | \% 83.2\% | 16.3\% 83.7\% |
| Scuba Diving |  |  | 0 | 0 | 4 | 46 | 0 | 0 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 40.0\% | \% 60.0\% | 40.0\% 60.0\% |
| Shinty |  | 3 | 1 | 1 | 18 | 19 | 0 | 9 | 57.1\% | 42.9\% | 55.6\% | 44.4\% | 48.6\% | \% 51.4\% | 47.8\% 52.2\% |
| Shooting |  | 0 | 0 | 0 | 2 | 27 | 1 | 0 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 22.2 | 77.8\% | 30.0\% 70.0\% |
| Snowsport |  | 12 | 0 | 0 | 11 | 11 | 1 | 4 | 42.9\% | 57.1\% | 42.9\% | 57.1\% | 50.0\% | \% 50.0\% | 48.1\% 51.9\% |
| Squash |  | 4 | 0 | 0 | 36 | 94 | 1 | 43 | 60.0\% | 40.0\% | 60.0\% | 40.0\% | 27.7\% | \% 72.3\% | 28.7\% 71.3\% |
| Swimming | 282 | 186 | 2 | 113 | 249 | 163 | 4 | 258 | 60.3\% | 39.7\% | 61.7\% | 38.3\% | 60.4\% | \% 39.6\% | 58.8\% 41.2\% |
| Table Tennis |  | 5 | 0 | 1 | 12 | 41 | 0 |  | 0.0\% | 100.0\% | 0.0\% | 100.0\% | 22.6\% | \% 77.4\% | 21.3\% 78.7\% |
| Taekwondo | 33 | 34 | 2 | 0 | 17 | 16 | 1 | 2 | 49.3\% | 50.7\% | 50.7\% | 49.3\% | 51.5\% | 48.5\% | 47.2\% 52.8\% |
| Tennis | 22 | 39 | 0 | 1 | 106 | 79 | 1 |  | 36.1\% | 63.9\% | 35.5\% | 64.5\% | 57.3\% | \% 42.7\% | 55.7\% 44.3\% |
| Triathlon |  | 6 | 0 | 0 | 87 | 80 | 0 | 5 | 40.0\% | 60.0\% | 40.0\% | 60.0\% | 52.1\% | \% 47.9\% | 52.9\% 47.1\% |
| Volleyball |  | 7 | 0 | 3 | 13 | 19 | 0 | 3 | 56.3\% | 43.8\% | 47.4\% | 52.6\% | 40.6\% | \% 59.4\% | 40.0\% 60.0\% |
| Other Sports | 96 | 34 | 0 | 9 | 280 | 138 | 7 | 60 | 73.8\% | 26.2\% | 74.8\% | 25.2\% | 67.0\% | \% 33.0\% | 67.0\% 33.0\% |
| Total | 1,317 | 1,002 | 16 | 374 | 2,758 | 8 3,334 |  | 1,643 | 56.8\% | 43.2\% | 57.3\% | 42.7\% | 45.3\% | \% 54.7\% | 45.1\% 54.9\% |

[^3]In Table 7 (below), the final unweighted figures including imputed gender are shown. These are now in a form that now match the SGB membership list shown in Table 3. The difference between the SGB membership list percentages and the survey percentages shown below is used as the weight.

Table 7: Unweighted Percentages (includes imputed gender, excludes Sport not stated)

| Sport | Junior $n$ |  | Adult $\boldsymbol{n}$ |  | Junior \% |  | Adult \% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male | Female | Male | Female | Male | Female | Male |
| Archery | 8 | 15 | 120 | 235 | 0.08\% | 0.14\% | 1.14\% | 2.24\% |
| Athletics | 79 | 53 | 324 | 306 | 0.75\% | 0.50\% | 3.08\% | 2.91\% |
| Badminton | 16 | 35 | 74 | 107 | 0.15\% | 0.33\% | 0.70\% | 1.02\% |
| Basketball | 49 | 128 | 60 | 117 | 0.47\% | 1.22\% | 0.57\% | 1.11\% |
| Bowls | 4 | 6 | 134 | 304 | 0.04\% | 0.06\% | 1.28\% | 2.89\% |
| Boxing | 15 | 36 | 105 | 103 | 0.14\% | 0.34\% | 1.00\% | 0.98\% |
| Canoeing | 1 | 3 | 63 | 101 | 0.01\% | 0.03\% | 0.60\% | 0.96\% |
| Cricket | 3 | 15 | 5 | 43 | 0.03\% | 0.14\% | 0.05\% | 0.41\% |
| Curling | 1 | 3 | 69 | 80 | 0.01\% | 0.03\% | 0.66\% | 0.76\% |
| Cycling | 11 | 48 | 96 | 204 | 0.10\% | 0.46\% | 0.91\% | 1.94\% |
| Disability Sport | 0 | 0 | 7 | 17 | 0.00\% | 0.00\% | 0.07\% | 0.16\% |
| Fencing | 4 | 8 | 15 | 15 | 0.04\% | 0.08\% | 0.14\% | 0.14\% |
| Football | 36 | 200 | 167 | 438 | 0.34\% | 1.90\% | 1.59\% | 4.17\% |
| Golf | 0 | 21 | 85 | 350 | 0.00\% | 0.20\% | 0.81\% | 3.33\% |
| Gymnastics | 616 | 50 | 448 | 51 | 5.86\% | 0.48\% | 4.26\% | 0.49\% |
| Hockey | 11 | 11 | 64 | 50 | 0.10\% | 0.10\% | 0.61\% | 0.48\% |
| Ju-Jitsu | 1 | 1 | 6 | 16 | 0.01\% | 0.01\% | 0.06\% | 0.15\% |
| Judo | 45 | 62 | 61 | 117 | 0.43\% | 0.59\% | 0.58\% | 1.11\% |
| Karate | 13 | 18 | 48 | 39 | 0.12\% | 0.17\% | 0.46\% | 0.37\% |
| Netball | 54 | 0 | 257 | 2 | 0.51\% | 0.00\% | 2.45\% | 0.02\% |
| Orienteering | 2 | 3 | 49 | 60 | 0.02\% | 0.03\% | 0.47\% | 0.57\% |
| Rowing | 18 | 8 | 84 | 67 | 0.17\% | 0.08\% | 0.80\% | 0.64\% |
| Rugby Union | 12 | 58 | 114 | 587 | 0.11\% | 0.55\% | 1.09\% | 5.59\% |
| Scuba Diving | 0 | 0 | 4 | 6 | 0.00\% | 0.00\% | 0.04\% | 0.06\% |
| Shinty | 5 | 4 | 22 | 24 | 0.05\% | 0.04\% | 0.21\% | 0.23\% |
| Shooting | 0 | 0 | 3 | 7 | 0.00\% | 0.00\% | 0.03\% | 0.07\% |
| Snowsport | 9 | 12 | 13 | 14 | 0.09\% | 0.11\% | 0.12\% | 0.13\% |
| Squash | 6 | 4 | 50 | 124 | 0.06\% | 0.04\% | 0.48\% | 1.18\% |
| Swimming | 360 | 223 | 396 | 278 | 3.43\% | 2.12\% | 3.77\% | 2.65\% |
| Table Tennis | 0 | 6 | 13 | 48 | 0.00\% | 0.06\% | 0.12\% | 0.46\% |
| Taekwondo | 35 | 34 | 17 | 19 | 0.33\% | 0.32\% | 0.16\% | 0.18\% |
| Tennis | 22 | 40 | 113 | 90 | 0.21\% | 0.38\% | 1.08\% | 0.86\% |
| Triathlon | 4 | 6 | 91 | 81 | 0.04\% | 0.06\% | 0.87\% | 0.77\% |
| Volleyball | 9 | 10 | 14 | 21 | 0.09\% | 0.10\% | 0.13\% | 0.20\% |
| Other Sports | 104 | 35 | 325 | 160 | 0.99\% | 0.33\% | 3.09\% | 1.52\% |
| Column Total | 1,553 | 1,156 | 3,516 | 4,281 | 14.78\% | 11.00\% | 33.47\% | 40.75\% |
| \% Female vs. Male |  |  |  |  | 57.33\% | 42.67\% | 45.09\% | 54.91\% |
| Overall Junior/Adult | 2,70 |  | 7,7 |  |  | 9\% | 74. | 1\% |

Table 7: Unweighted Percentages (includes imputed gender, excludes sport not stated)
The weight for each respondent is calculated as:

$$
W=\frac{p_{i j k}}{\hat{p}_{i j k}}
$$

Where $W$ is the weight, $p_{i j k}$ is the proportion of the SGB population in sport $l$, gender $j$ and age group $k$ and $\hat{p}_{i j k}$ is the proportion in the survey sample in sport $I$, gender $j$ and age group $k$.

The final weighted percentages can be seen below. The weighting accounts for the different mix of sports and genders and the mix of junior and adult level respondents.

It should be noted that it was necessary to merge the sportscotland counts for male and female junior netball and table tennis figures as all survey respondents in this age group were all female in the case of netball and all male in the case of table tennis. Additionally, golf was assumed to be all male at junior level due to low junior survey counts but high representation in the sportscotland figures. In this instance, the merger of the male and female categories was to minimise extreme weightings.

Table 8: Final Weighted Percentages (includes imputed genders, excludes sport not stated)

| Sport | Junior Weighted $n$ |  | Adult Weighted n |  | Junior Weighted \% |  | Adult Weighted \% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male | Female | Male | Female | Male | Female | Male |
| Archery | 6 | 10 | 9 | 16 | 0.06\% | 0.10\% | 0.08\% | 0.16\% |
| Athletics | 65 | 60 | 58 | 80 | 0.62\% | 0.57\% | 0.55\% | 0.76\% |
| Badminton | 16 | 37 | 18 | 33 | 0.15\% | 0.35\% | 0.17\% | 0.31\% |
| Basketball | 25 | 51 | 10 | 28 | 0.24\% | 0.49\% | 0.09\% | 0.27\% |
| Bowls | 9 | 14 | 232 | 577 | 0.09\% | 0.13\% | 2.21\% | 5.49\% |
| Boxing | 2 | 17 | 15 | 42 | 0.02\% | 0.16\% | 0.14\% | 0.40\% |
| Canoeing | 6 | 9 | 18 | 23 | 0.06\% | 0.09\% | 0.17\% | 0.22\% |
| Cricket | 3 | 84 | 3 | 73 | 0.03\% | 0.80\% | 0.03\% | 0.69\% |
| Curling | 5 | 8 | 53 | 94 | 0.05\% | 0.07\% | 0.51\% | 0.89\% |
| Cycling | 7 | 31 | 23 | 103 | 0.07\% | 0.29\% | 0.22\% | 0.98\% |
| Disability Sport | 0 | 0 | 2 | 3 | 0.00\% | 0.00\% | 0.02\% | 0.03\% |
| Fencing | 2 | 4 | 3 | 5 | 0.02\% | 0.04\% | 0.03\% | 0.04\% |
| Football | 144 | 1,041 | 30 | 617 | 1.37\% | 9.91\% | 0.28\% | 5.87\% |
| Golf* | 0 | 217 | 298 | 2,002 | 0.00\% | 2.06\% | 2.84\% | 19.06\% |
| Gymnastics | 334 | 59 | 25 | 5 | 3.18\% | 0.56\% | 0.24\% | 0.05\% |
| Hockey | 54 | 35 | 40 | 36 | 0.52\% | 0.33\% | 0.38\% | 0.34\% |
| Ju-Jitsu | 0 | 1 | 0 | 1 | 0.00\% | 0.01\% | 0.00\% | 0.01\% |
| Judo | 31 | 68 | 4 | 15 | 0.29\% | 0.65\% | 0.03\% | 0.14\% |
| Karate | 63 | 99 | 14 | 27 | 0.60\% | 0.95\% | 0.14\% | 0.26\% |
| Netball** | 42 | 0 | 50 | 0 | 0.40\% | 0.00\% | 0.48\% | 0.00\% |
| Orienteering | 4 | 6 | 8 | 9 | 0.04\% | 0.05\% | 0.07\% | 0.09\% |
| Rowing | 10 | 9 | 12 | 14 | 0.09\% | 0.09\% | 0.11\% | 0.13\% |
| Rugby Union | 21 | 235 | 31 | 234 | 0.20\% | 2.24\% | 0.30\% | 2.22\% |
| Scuba Diving | 0 | 0 | 3 | 11 | 0.00\% | 0.00\% | 0.02\% | 0.11\% |
| Shinty | 7 | 17 | 6 | 18 | 0.07\% | 0.16\% | 0.05\% | 0.17\% |
| Shooting | 0 | 0 | 4 | 26 | 0.00\% | 0.00\% | 0.04\% | 0.25\% |
| Snowsport | 15 | 22 | 18 | 29 | 0.15\% | 0.21\% | 0.17\% | 0.28\% |
| Squash | 7 | 14 | 15 | 61 | 0.07\% | 0.14\% | 0.14\% | 0.58\% |
| Swimming | 105 | 72 | 95 | 48 | 1.00\% | 0.69\% | 0.90\% | 0.46\% |
| Table Tennis* | 0 | 4 | 2 | 15 | 0.00\% | 0.04\% | 0.02\% | 0.14\% |
| Taekwondo | 77 | 100 | 30 | 43 | 0.73\% | 0.96\% | 0.29\% | 0.41\% |
| Tennis | 137 | 197 | 213 | 255 | 1.31\% | 1.88\% | 2.03\% | 2.43\% |
| Triathlon | 6 | 5 | 21 | 29 | 0.05\% | 0.05\% | 0.20\% | 0.28\% |
| Volleyball | 5 | 5 | 7 | 7 | 0.05\% | 0.05\% | 0.07\% | 0.07\% |
| Other Sports | 42 | 63 | 221 | 489 | 0.40\% | 0.60\% | 2.10\% | 4.66\% |
| Total | 1,252 | 2,596 | 1,590 | 5,068 | 11.91\% | 24.71\% | 15.14\% | 48.24\% |
| \% Female vs. Male |  |  |  |  | 32.54\% | 67.46\% | 23.89\% | 76.11\% |
| Overall Junior/Adult | 3,8 |  | 6,6 |  |  | 2\% |  | 8\% |

*All junior Golf and Table Tennis weighted as male.
**Junior Netball weighted as female.
Table 8: Final Weighted Percentages (includes imputed genders, excludes sport not stated)

Table 9 (below) shows the final weightings for each of the categories. Note that a weight below 1 indicates that the grouping was relatively overrepresented in the survey sample (weighted down) whereas a weight greater than 1 will indicate underrepresentation in the survey sample (weighted up). The weight is used to correct for these representation differences.

It is desirable for a weighting to be five or less as a rule of thumb. This would mean that one person would represent a maximum of five people in the final results. In the final weightings, only golf exceeds this value with weightings of 10.32 at junior level (gender combined) and 5.72 for adult males. This was due to golf being very underrepresented in the survey data compared to SGB membership. The junior golf weight was also inflated by the undersampling of junior respondents in general.

A further point to note is that where sport was unknown, a weight of 1 was applied as this category could not be weighted. No adjustment was made for this group for gender or age group.

Table 9: Final Weights per Category (includes imputed genders)

| Sport | Junior Base | Adult Base | Junior |  | Adult |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Female | Male | Female | Male |
| Archery | 23 | 355 | 0.80 | 0.70 | 0.07 | 0.07 |
| Athletics | 132 | 630 | 0.82 | 1.14 | 0.18 | 0.26 |
| Badminton | 51 | 181 | 0.99 | 1.05 | 0.24 | 0.31 |
| Basketball | 177 | 177 | 0.50 | 0.40 | 0.17 | 0.24 |
| Bowls | 10 | 438 | 2.28 | 2.29 | 1.73 | 1.90 |
| Boxing | 51 | 208 | 0.14 | 0.46 | 0.14 | 0.41 |
| Canoeing | 4 | 164 | 6.05 | 3.16 | 0.28 | 0.23 |
| Cricket | 18 | 48 | 1.12 | 5.63 | 0.56 | 1.69 |
| Curling | 4 | 149 | 4.85 | 2.58 | 0.77 | 1.17 |
| Cycling | 59 | 300 | 0.64 | 0.65 | 0.24 | 0.50 |
| Disability Sport |  | 24 |  |  | 0.31 | 0.18 |
| Fencing | 12 | 30 | 0.53 | 0.47 | 0.19 | 0.31 |
| Football | 236 | 605 | 4.00 | 5.20 | 0.18 | 1.41 |
| Golf | 21 | 435 |  | 10.32 | 3.51 | 5.72 |
| Gymnastics | 666 | 499 | 0.54 | 1.17 | 0.06 | 0.10 |
| Hockey | 22 | 114 | 4.93 | 3.15 | 0.63 | 0.72 |
| Ju-Jitsu | 2 | 22 | 0.25 | 0.67 | 0.03 | 0.05 |
| Judo | 107 | 178 | 0.69 | 1.10 | 0.06 | 0.13 |
| Karate | 31 | 87 | 4.87 | 5.52 | 0.30 | 0.70 |
| Netball | 54 | 259 | 0.78 |  | 0.20 | 0.13 |
| Orienteering | 5 | 109 | 2.12 | 1.90 | 0.16 | 0.15 |
| Rowing | 26 | 151 | 0.53 | 1.17 | 0.14 | 0.21 |
| Rugby Union | 70 | 701 | 1.78 | 4.06 | 0.27 | 0.40 |
| Scuba Diving |  | 10 |  |  | 0.64 | 1.88 |
| Shinty | 9 | 46 | 1.47 | 4.26 | 0.25 | 0.76 |
| Shooting |  | 10 |  |  | 1.41 | 3.71 |
| Snowsport | 21 | 27 | 1.69 | 1.83 | 1.38 | 2.10 |
| Squash | 10 | 174 | 1.18 | 3.55 | 0.30 | 0.49 |
| Swimming | 583 | 674 | 0.29 | 0.32 | 0.24 | 0.17 |
| Table Tennis | 6 | 61 |  | 0.74 | 0.12 | 0.31 |
| Taekwondo | 69 | 36 | 2.20 | 2.96 | 1.78 | 2.25 |
| Tennis | 62 | 203 | 6.24 | 4.93 | 1.89 | 2.83 |
| Triathlon | 10 | 172 | 1.42 | 0.89 | 0.23 | 0.36 |
| Volleyball | 19 | 35 | 0.57 | 0.52 | 0.51 | 0.34 |
| Other Sports | 139 | 485 | 0.40 | 1.80 | 0.68 | 3.06 |
| Not Stated | 152 | 567 | 1.00 | 1.00 | 1.00 | 1.00 |
| Total/Max | 2,861 | 8,364 | 6.24 | 10.32 | 3.51 | 5.72 |

[^4]Table 10 (below) indicates that the weighted percentages in Table 8 are identical to the sportscotland SGB percentages in Table 3 except in sports where it was necessary to collapse genders for weighting. Note that differences in percentages are absolute (the subtraction of one percentage from another) rather than relative (percentage difference of the absolute difference).

Table 10: Differences Between Weighted Percentages and sportscotland Percentages (includes imputed gender, excludes sport not stated)

| Sport | Junior Sport Gender \% |  | Adult Sport Gender \% |  | Junior Overall \% |  | Adult Overall \% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male | Female | Male | Female | Male | Female | Male |
| Archery | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Athletics | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Badminton | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Basketball | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Bowls | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Boxing | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Canoeing | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Cricket | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Curling | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Cycling | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Disability Sport |  |  | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Fencing | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Football | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Golf* | -16.74\% | 16.74\% | 0.00\% | 0.00\% | 0.35\% | -0.35\% | 0.00\% | 0.00\% |
| Gymnastics | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Hockey | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Ju-Jitsu | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Judo | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Karate | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Netball* | 0.23\% | -0.23\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Orienteering | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Rowing | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Rugby Union | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Scuba Diving |  |  | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Shinty | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Shooting |  |  | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Snowsport | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Squash | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Swimming | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Table Tennis* | -14.83\% | 14.83\% | 0.00\% | 0.00\% | 0.01\% | -0.01\% | 0.00\% | 0.00\% |
| Taekwondo | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Tennis | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Triathlon | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Volleyball | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Other Sports | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% | 0.00\% |
| Total | -0.96\% | 0.96\% | 0.00\% | 0.00\% | 0.35\% | -0.35\% | 0.00\% | 0.00\% |
| \% Female vs. Male |  |  |  |  | 0.96\% | -0.96\% | 0.00\% | 0.00\% |
| Overall Junior/Adult |  |  |  |  |  |  | 0.00 |  |

Table 10: Differences Between Weighted Percentages and sportscotland Percentages (includes imputed genders, excludes sport not stated)


[^0]:    ${ }^{1}$ See http://www.gov.scot/About/Performance/scotPerforms/partnerstories/Outcomes-Framework

[^1]:    Table 2: Final Responses by Major Sports and Age Group

[^2]:    *Note that unknown sports were not adjusted

[^3]:    Table 6: Survey Percentages of Male and Females by Sport and Age: Known and Imputed (Excl. Sport Not Stated)

[^4]:    Table 9: Final Weights per Category (includes imputed genders)

