|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table A. |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Annual estimates of frequencies of visits to marine and inland comparator environments in England (2009/2010-2015/2016). | | | | | | | | | | |
| **Where** | Marine environments | | | | Inland comparator environments | | | | | |
|  | Beach | | Other coastline | | River, lake or canal | | Urban open spaces | | Woodland or forest | |
|  | N  Std Error | % | N  Std Error | % | N  Std Error | % | N  Std Error | % | N  Std Error | % |
| **Total** | 171,746,361 | 6.0 | 99,269,907 | 3.5 | 267,439,776 | 9.3 | 722,599,787 | 25.2 | 371,205,087 | 12.9 |
| **SE** | 6,660,707 | 3.9 | 4,001,690 | 4.0 | 11,549,557 | 4.3 | 42,746,668 | 5.9 | 16,636,832 | 4.5 |
| **What** |  |  |  |  |  |  |  |  |  |  |
| *Fishing* | 1,768,072 | 1.0 | 1,416,131 | 1.4 | 9,858,463 | 3.7 | 890,684 | 0.1 | 1,056,928 | 0.3 |
| SE | 226,297 | 0.1 | 227,245 | 0.2 | 492,666 | 0.2 | 259,979 | 0.0 | 132,980 | 0.0 |
| *Water sports* | 3,716,981 | 2.2 | 2,287,076 | 2.3 | 4,526,916 | 1.7 | 1,216,908 | 0.2 | 448,418 | 0.1 |
| SE | 357,233 | 0.2 | 226,371 | 0.2 | 424,289 | 0.2 | 67,591 | 0.0 | 60,429 | 0.0 |
| *Swimming outdoors* | 5,607,808 | 3.3 | 1,209,487 | 1.2 | 1,181,872 | 0.4 | 2,500,555 | 0.3 | 539,231 | 0.1 |
| SE | 657,510 | 0.4 | 355,790 | 0.4 | 199,489 | 0.1 | 293,975 | 0.0 | 187,264 | 0.1 |
| *Sunbathing or paddling* | 41,392,488 | 24.1 | 11,073,846 | 11.2 | 1,751,606 | 0.7 | 3,435,263 | 0.5 | 1,372,762 | 0.4 |
| SE | 1,255,509 | 0.7 | 541,050 | 0.5 | 210,132 | 0.1 | 284,957 | 0.0 | 114,124 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |
| Walking without a dog | 58,880,527 | 34.3 | 43,421,756 | 43.7 | 86,834,570 | 32.5 | 225,866,263 | 31.3 | 79,903,430 | 21.5 |
| SE | 2,881,889 | 1.7 | 2,142,047 | 2.2 | 4,198,341 | 1.6 | 14,178,819 | 2.0 | 4,925,991 | 1.3 |
| Walking with a dog | 64,813,307 | 37.7 | 34,746,205 | 35.0 | 134,349,663 | 50.2 | 308,256,018 | 42.7 | 254,338,690 | 68.5 |
| SE | 3,348,687 | 1.9 | 2,417,684 | 2.4 | 7,070,821 | 2.6 | 19,970,629 | 2.8 | 11,281,707 | 3.0 |
| Playing with children | 21,569,831 | 12.6 | 6,060,124 | 6.1 | 16,592,605 | 6.2 | 125,187,073 | 17.3 | 19,586,083 | 5.3 |
| SE | 1,422,249 | 0.8 | 518,816 | 0.5 | 1,200,918 | 0.4 | 9,321,777 | 1.3 | 1,754,522 | 0.5 |
| Visiting an attraction | 9,224,676 | 5.4 | 5,774,626 | 5.8 | 8,846,703 | 3.3 | 19,383,967 | 2.7 | 7,774,497 | 2.1 |
| SE | 645,845 | 0.4 | 379,953 | 0.4 | 476,300 | 0.2 | 1,133,439 | 0.2 | 540,451 | 0.1 |
| Running | 3,625,990 | 2.1 | 2,011,941 | 2.0 | 9,117,437 | 3.4 | 33,949,020 | 4.7 | 9,521,086 | 2.6 |
| SE | 428,017 | 0.2 | 205,423 | 0.2 | 753,594 | 0.3 | 3,621,158 | 0.5 | 1,281,384 | 0.3 |
| Road cycling | 2,056,016 | 1.2 | 2,318,866 | 2.3 | 6,864,731 | 2.6 | 13,920,819 | 1.9 | 6,028,971 | 1.6 |
| SE | 565,709 | 0.3 | 290,982 | 0.3 | 520,556 | 0.2 | 1,189,503 | 0.2 | 422,255 | 0.1 |
| Off-road cycling or mountain biking | 695,368 | 0.4 | 823,240 | 0.8 | 5,607,321 | 2.1 | 5,323,101 | 0.7 | 8,475,807 | 2.3 |
| SE | 161,551 | 0.1 | 228,728 | 0.2 | 478,460 | 0.2 | 709,065 | 0.1 | 795,979 | 0.2 |
| Informal games and sports | 2,148,202 | 1.3 | 949,623 | 1.0 | 1,919,343 | 0.7 | 18,451,341 | 2.6 | 2,554,345 | 0.7 |
| SE | 302,455 | 0.2 | 130,051 | 0.1 | 313,105 | 0.1 | 627,329 | 0.1 | 397,399 | 0.1 |
| Off-road driving or motorcycling | 299,718 | 0.2 | 331,104 | 0.3 | 510,051 | 0.2 | 734,802 | 0.1 | 809,113 | 0.2 |
| SE | 76,432 | 0.0 | 55,318 | 0.1 | 166,281 | 0.1 | 149,191 | 0.0 | 86,464 | 0.0 |
| Horse riding | 577,782 | 0.3 | 245,653 | 0.2 | 912,417 | 0.3 | 914,130 | 0.1 | 4,925,267 | 1.3 |
| SE | 130,103 | 0.1 | 67,261 | 0.1 | 216,072 | 0.1 | 238,419 | 0.0 | 773,781 | 0.2 |
| Fieldsports (e.g. hunting or shooting) | 327,206 | 0.2 | 195,990 | 0.2 | 363,696 | 0.1 | 2,631,946 | 0.4 | 1,656,723 | 0.4 |
| SE | 94,410 | 0.1 | 85,120 | 0.1 | 99,477 | 0.0 | 310,229 | 0.0 | 316,145 | 0.1 |
| Eating or drinking out | 27,200,565 | 15.8 | 14,701,665 | 14.8 | 19,361,009 | 7.2 | 53,375,378 | 7.4 | 15,214,342 | 4.1 |
| SE | 2,958,568 | 1.7 | 1,515,621 | 1.5 | 1,983,713 | 0.7 | 7,155,366 | 1.0 | 2,348,191 | 0.6 |
| Wildlife watching | 5,555,668 | 3.2 | 5,361,183 | 5.4 | 18,335,690 | 6.9 | 12,064,344 | 1.7 | 20,155,710 | 5.4 |
| SE | 647,893 | 0.4 | 650,986 | 0.7 | 1,000,169 | 0.4 | 768,128 | 0.1 | 1,298,307 | 0.3 |
| Appreciating scenery from a car | 6,324,985 | 3.7 | 5,413,754 | 5.5 | 6,855,768 | 2.6 | 6,080,594 | 0.8 | 6,536,837 | 1.8 |
| SE | 505,949 | 0.3 | 550,209 | 0.6 | 796,131 | 0.3 | 818,684 | 0.1 | 918,617 | 0.2 |
| Picnicking | 7,959,170 | 4.6 | 2,814,058 | 2.8 | 7,152,002 | 2.7 | 16,286,287 | 2.3 | 6,556,848 | 1.8 |
| SE | 462,381 | 0.3 | 211,239 | 0.2 | 708,396 | 0.3 | 1,138,739 | 0.2 | 439,840 | 0.1 |
| **Who** |  |  |  |  |  |  |  |  |  |  |
| Male | 78,521,438 | 45.7 | 50,535,125 | 50.9 | 133,919,074 | 50.1 | 343,533,818 | 47.5 | 180,119,178 | 48.5 |
| SE | 3,099,075 | 1.8 | 1,812,778 | 1.8 | 5,533,721 | 2.1 | 21,790,647 | 3.0 | 10,506,076 | 2.8 |
| Female | 93,224,923 | 54.3 | 48,734,782 | 49.1 | 133,520,702 | 49.9 | 379,065,969 | 52.5 | 191,085,909 | 51.5 |
| SE | 3,919,827 | 2.3 | 2,532,641 | 2.6 | 6,351,178 | 2.4 | 21,359,700 | 3.0 | 7,826,937 | 2.1 |
|  |  |  |  |  |  |  |  |  |  |  |
| Aged 16-34 | 42,614,637 | 24.8 | 14,820,902 | 14.9 | 59,495,676 | 22.2 | 256,859,161 | 35.5 | 77,241,014 | 20.8 |
| SE | 1,544,778 | 0.9 | 898,534 | 0.9 | 3,546,648 | 1.3 | 12,632,311 | 1.7 | 5,154,316 | 1.4 |
| Aged 35-64 | 98,664,072 | 57.4 | 55,967,003 | 56.4 | 158,515,729 | 59.3 | 365,075,139 | 50.5 | 231,333,098 | 62.3 |
| SE | 3,340,726 | 1.9 | 1,734,188 | 1.7 | 4,815,027 | 1.8 | 21,131,794 | 2.9 | 7,227,011 | 1.9 |
| Aged 65 and over | 30,467,652 | 17.7 | 28,482,003 | 28.7 | 49,428,371 | 18.5 | 100,665,487 | 13.9 | 62,630,975 | 16.9 |
| SE | 2,498,301 | 1.5 | 2,590,037 | 2.6 | 3,835,238 | 1.4 | 9,971,223 | 1.4 | 5,865,763 | 1.6 |
|  |  |  |  |  |  |  |  |  |  |  |
| AB classification | 53,670,836 | 31.3 | 35,142,533 | 35.4 | 93,043,091 | 34.8 | 196,811,600 | 27.2 | 132,008,235 | 35.6 |
| SE | 3,417,078 | 2.0 | 1,974,672 | 2.0 | 5,615,305 | 2.1 | 17,444,865 | 2.4 | 8,820,785 | 2.4 |
| C1 classification | 51,186,978 | 29.8 | 31,094,406 | 31.3 | 75,084,545 | 28.1 | 217,841,626 | 30.1 | 106,861,164 | 28.8 |
| SE | 2,111,664 | 1.2 | 1,750,432 | 1.8 | 3,817,115 | 1.4 | 14,094,308 | 2.0 | 6,225,237 | 1.7 |
| C2 classification | 35,294,274 | 20.6 | 18,601,795 | 18.7 | 51,856,887 | 19.4 | 142,266,325 | 19.7 | 74,967,379 | 20.2 |
| SE | 1,874,336 | 1.1 | 793,049 | 0.8 | 2,516,577 | 0.9 | 7,729,179 | 1.1 | 3,430,676 | 0.9 |
| DE classification | 31,594,272 | 18.4 | 14,431,173 | 14.5 | 47,455,253 | 17.7 | 165,680,236 | 22.9 | 57,368,308 | 15.5 |
| SE | 1,651,723 | 1.0 | 989,015 | 1.0 | 2,249,990 | 0.8 | 8,375,749 | 1.2 | 1,989,493 | 0.5 |
| **Why** |  |  |  |  |  |  |  |  |  |  |
| Health motivation | 60,948,310 | 35.5 | 46,988,988 | 47.3 | 132,728,926 | 49.6 | 266,657,981 | 36.9 | 206,028,062 | 55.5 |
| SE | 5,638,471 | 3.3 | 4,297,248 | 4.3 | 10,265,072 | 3.8 | 31,194,784 | 4.3 | 20,694,077 | 5.6 |
| Relaxation motivation | 69,877,914 | 40.7 | 46,825,479 | 47.2 | 105,695,623 | 39.5 | 198,164,532 | 27.4 | 140,779,029 | 37.9 |
| SE | 4,568,016 | 2.7 | 4,487,417 | 4.5 | 4,292,205 | 1.6 | 19,997,706 | 2.8 | 12,227,444 | 3.3 |
| Social motivation | 64,192,709 | 37.4 | 30,452,437 | 30.7 | 66,870,782 | 25.0 | 192,396,461 | 26.6 | 78,078,370 | 21.0 |
| SE | 3,873,166 | 2.3 | 4,313,935 | 4.3 | 6,521,183 | 2.4 | 14,839,172 | 2.1 | 5,972,503 | 1.6 |
| **When** |  |  |  |  |  |  |  |  |  |  |
| Weekday | 107,807,298 | 62.8 | 63,518,884 | 64.0 | 173,715,229 | 65.0 | 478,853,153 | 66.3 | 249,635,788 | 67.3 |
| SE | 10,157,543 | 5.9 | 5,317,263 | 5.4 | 15,039,955 | 5.6 | 42,162,419 | 5.8 | 19,657,286 | 5.3 |
| Weekend | 63,939,063 | 37.2 | 35,751,023 | 36.0 | 93,724,547 | 35.0 | 243,746,634 | 33.7 | 121,569,299 | 32.7 |
| SE | 5,095,260 | 3.0 | 2,550,010 | 2.6 | 4,756,523 | 1.8 | 14,003,613 | 1.9 | 5,795,431 | 1.6 |
|  |  |  |  |  |  |  |  |  |  |  |
| Spring | 47,392,909 | 27.6 | 27,310,626 | 27.5 | 77,063,949 | 28.8 | 191,759,241 | 26.5 | 102,310,039 | 27.6 |
| SE | 3,219,152 | 1.9 | 2,105,417 | 2.1 | 4,884,965 | 1.8 | 12,987,129 | 1.8 | 4,185,516 | 1.1 |
| Summer | 57,639,219 | 33.6 | 29,482,233 | 29.7 | 79,337,587 | 29.7 | 203,776,031 | 28.2 | 93,757,030 | 25.3 |
| SE | 2,599,238 | 1.5 | 1,757,600 | 1.8 | 4,209,107 | 1.6 | 14,667,037 | 2.0 | 6,489,376 | 1.7 |
| Autumn | 36,371,717 | 21.2 | 22,211,426 | 22.4 | 59,396,743 | 22.2 | 174,647,211 | 24.2 | 87,718,205 | 23.6 |
| SE | 2,035,966 | 1.2 | 1,303,571 | 1.3 | 2,966,740 | 1.1 | 13,185,642 | 1.8 | 5,767,216 | 1.6 |
| Winter | 30,342,516 | 17.7 | 20,265,621 | 20.4 | 51,641,497 | 19.3 | 152,417,303 | 21.1 | 87,419,812 | 23.6 |
| SE | 2,345,683 | 1.4 | 1,657,529 | 1.7 | 2,293,586 | 0.9 | 11,111,724 | 1.5 | 7,168,437 | 1.9 |
|  |  |  |  |  |  |  |  |  |  | 0.0 |
| 2009-2010 | 174,136,792 | 14.5 | 98,189,027 | 14.1 | 253,373,405 | 13.5 | 677,631,562 | 13.4 | 316,825,027 | 12.2 |
| 2010-2011 | 159,082,923 | 13.2 | 91,080,034 | 13.1 | 231,907,307 | 12.4 | 557,838,987 | 11.0 | 325,553,892 | 12.5 |
| 2011-2012 | 151,792,199 | 12.6 | 90,023,921 | 13.0 | 261,436,449 | 14.0 | 628,383,823 | 12.4 | 358,313,925 | 13.8 |
| 2012-2013 | 170,437,233 | 14.2 | 94,794,997 | 13.6 | 251,802,843 | 13.5 | 709,861,662 | 14.0 | 356,574,704 | 13.7 |
| 2013-2014 | 157,015,289 | 13.1 | 92,980,896 | 13.4 | 269,188,419 | 14.4 | 778,178,986 | 15.4 | 377,758,261 | 14.5 |
| 2014-2015 | 192,640,330 | 16.0 | 117,820,620 | 17.0 | 275,315,110 | 14.7 | 827,056,830 | 16.4 | 417,048,210 | 16.0 |
| 2015-2016 | 197,119,758 | 16.4 | 109,999,856 | 15.8 | 329,054,900 | 17.6 | 879,246,657 | 17.4 | 446,361,588 | 17.2 |
| **Where** |  |  |  |  |  |  |  |  |  |  |
| East Midlands | 6,715,543 | 3.9 | 3,192,014 | 3.2 | 28,350,541 | 10.6 | 46,847,056 | 6.5 | 32,032,971 | 8.6 |
| SE | 573,189 | 0.3 | 273,450 | 0.3 | 2,533,746 | 0.9 | 2,494,202 | 0.3 | 1,573,324 | 0.4 |
| East of England | 14,593,425 | 8.5 | 7,536,860 | 7.6 | 25,966,519 | 9.7 | 72,604,523 | 10.0 | 45,752,363 | 12.3 |
| SE | 936,160 | 0.5 | 469,300 | 0.5 | 1,651,848 | 0.6 | 6,712,310 | 0.9 | 2,819,785 | 0.8 |
| London | 5,656,454 | 3.3 | 2,020,105 | 2.0 | 10,271,386 | 3.8 | 159,527,509 | 22.1 | 12,054,776 | 3.2 |
| SE | 609,585 | 0.4 | 390,016 | 0.4 | 1,313,937 | 0.5 | 13,721,832 | 1.9 | 1,819,351 | 0.5 |
| North East | 22,446,912 | 13.1 | 10,644,700 | 10.7 | 13,086,101 | 4.9 | 29,394,361 | 4.1 | 26,813,751 | 7.2 |
| SE | 1,126,242 | 0.7 | 1,312,012 | 1.3 | 1,256,022 | 0.5 | 1,432,840 | 0.2 | 2,758,471 | 0.7 |
| North West | 19,984,759 | 11.6 | 12,841,663 | 12.9 | 33,329,466 | 12.5 | 104,570,588 | 14.5 | 30,140,739 | 8.1 |
| SE | 940,514 | 0.5 | 449,275 | 0.5 | 2,671,438 | 1.0 | 7,218,190 | 1.0 | 3,373,807 | 0.9 |
| South East | 40,344,147 | 23.5 | 25,479,740 | 25.7 | 34,797,069 | 13.0 | 97,026,417 | 13.4 | 69,751,311 | 18.8 |
| SE | 4,340,121 | 2.5 | 2,553,287 | 2.6 | 1,728,498 | 0.6 | 5,791,542 | 0.8 | 4,820,494 | 1.3 |
| South West | 35,298,995 | 20.6 | 24,543,982 | 24.7 | 35,477,201 | 13.3 | 57,593,820 | 8.0 | 58,938,363 | 15.9 |
| SE | 2,241,980 | 1.3 | 1,038,662 | 1.0 | 2,824,875 | 1.1 | 4,446,514 | 0.6 | 2,598,655 | 0.7 |
| West Midlands | 5,983,119 | 3.5 | 2,721,133 | 2.7 | 46,053,883 | 17.2 | 81,189,673 | 11.2 | 43,615,894 | 11.7 |
| SE | 366,410 | 0.2 | 336,625 | 0.3 | 4,170,575 | 1.6 | 4,860,210 | 0.7 | 3,728,036 | 1.0 |
| Yorkshire and The Humber | 16,091,165 | 9.4 | 7,568,348 | 7.6 | 34,472,082 | 12.9 | 55,248,833 | 7.6 | 44,930,363 | 12.1 |
| SE | 1,091,352 | 0.6 | 386,318 | 0.4 | 1,395,657 | 0.5 | 2,813,561 | 0.4 | 3,417,902 | 0.9 |
| Notes:  Percentages for activities and motivations can add up to greater than 100% as respondents could select more than one activity or motivation item (see section 2.2.2 and 2.3.2).  Section 2.2.2 of the main article states that a list of twenty activities could be selected, and only nineteen are present here. The twentieth refers to an "any other outdoor activity" option which was omitted from analyses as it was deemed less helpful to marine planners and other potential readers of these analyses.  Counts for the survey year variable are annual totals (i.e. the estimated number of visits to the location in that year of sampling). Every other variable represents an annual average (i.e. the average number of visits to that location over the seven years of sampling involving that activity, motivation, season etc.). Standard errors of the mean represent standard errors across the 7 survey sampling years. Therefore, no standard errors are present for the survey year variable.  Grossing-up weights are applied to estimate frequencies at the English population level. These estimates are made from a total sample size of 130,851 randomly selected visits made in the previous week (each made by a different respondent) over the last seven years of the survey’s data collection except for the three motivation variables which are estimated from 30,188 such visits. The reason that this number is less than the total is because these items were only asked every month for the former three waves of the survey. For more information on the weighting procedures and how the grossing-up weights were constructed, see the recent technical report on the survey [20]. | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table B. |  | |  | |  | |  | |
|  |  | |  | |  | |  | |
| Annual estimates of frequencies of water-based activities on leisure visits to marine environments in England (2009/2010-2015/2016). | | | | | | | | |
| **What** | Fishing | | Water sports | | Swimming outdoors | | Sunbathing or paddling | |
|  | N  Std Error | % | N Std Error | % | N Std Error | % | N Std Error | % |
| **Total** | 2,917,745 | 0.1 | 5,594,693 | 0.2 | 6,148,838 | 0.2 | 44,651,703 | 1.6 |
| **SE** | 310,032 | 10.6 | 524,542 | 9.4 | 755,827 | 12.3 | 1,355,453 | 3.0 |
| **Who** |  |  |  |  |  |  |  |  |
| Male | 2,278,029 | 78.1 | 3,904,812 | 69.8 | 3,042,911 | 49.5 | 19,034,405 | 42.6 |
| SE | 249,325 | 8.5 | 407,297 | 7.3 | 386,135 | 6.3 | 980,379 | 2.2 |
| Female | 639,716 | 21.9 | 1,689,881 | 30.2 | 3,105,927 | 50.5 | 25,617,298 | 57.4 |
| SE | 129,063 | 4.4 | 166,062 | 3.0 | 384,789 | 6.3 | 485,020 | 1.1 |
|  |  |  |  |  |  |  |  |  |
| Aged 16-34 | 607,301 | 20.8 | 1,798,348 | 32.1 | 2,805,297 | 45.6 | 12,954,833 | 29.0 |
| SE | 178,671 | 6.1 | 254,862 | 4.6 | 492,275 | 8.0 | 915,279 | 2.0 |
| Aged 35-64 | 1,960,787 | 67.2 | 3,385,570 | 60.5 | 2,962,335 | 48.2 | 25,005,778 | 56.0 |
| SE | 197,474 | 6.8 | 287,889 | 5.1 | 314,815 | 5.1 | 673,504 | 1.5 |
| Aged 65 and over | 349,658 | 12.0 | 410,775 | 7.3 | 381,206 | 6.2 | 6,691,092 | 15.0 |
| SE | 86,295 | 3.0 | 61,547 | 1.1 | 138,870 | 2.3 | 512,395 | 1.1 |
|  |  |  |  |  |  |  |  |  |
| AB classification | 846,014 | 29.0 | 2,317,310 | 41.4 | 1,937,366 | 31.5 | 14,737,594 | 33.0 |
| SE | 186,263 | 6.4 | 338,866 | 6.1 | 309,848 | 5.0 | 1,234,061 | 2.8 |
| C1 classification | 786,070 | 26.9 | 1,614,596 | 28.9 | 1,890,078 | 30.7 | 13,428,244 | 30.1 |
| SE | 198,776 | 6.8 | 141,296 | 2.5 | 210,601 | 3.4 | 790,160 | 1.8 |
| C2 classification | 632,352 | 21.7 | 1,053,735 | 18.8 | 1,246,229 | 20.3 | 9,733,535 | 21.8 |
| SE | 118,841 | 4.1 | 116,002 | 2.1 | 261,069 | 4.2 | 472,758 | 1.1 |
| DE classification | 653,309 | 22.4 | 609,052 | 10.9 | 1,075,165 | 17.5 | 6,752,331 | 15.1 |
| SE | 159,114 | 5.5 | 135,045 | 2.4 | 210,648 | 3.4 | 359,414 | 0.8 |
| **Why** |  |  |  |  |  |  |  |  |
| Health motivation | 278,271 | 9.5 | 2,271,664 | 40.6 | 3,087,815 | 50.2 | 14,149,388 | 31.7 |
| SE | 152,868 | 5.2 | 629,987 | 11.3 | 331,904 | 5.4 | 1,537,084 | 3.4 |
| Relaxation motivation | 1,639,610 | 56.2 | 2,498,393 | 44.7 | 3,662,599 | 59.6 | 26,104,311 | 58.5 |
| SE | 289,782 | 9.9 | 452,960 | 8.1 | 464,004 | 7.5 | 1,706,851 | 3.8 |
| Social motivation | 1,358,115 | 46.5 | 2,109,306 | 37.7 | 4,632,941 | 75.3 | 27,888,276 | 62.5 |
| SE | 373,552 | 12.8 | 476,401 | 8.5 | 629,627 | 10.2 | 2,135,223 | 4.8 |
| **When** |  |  |  |  |  |  |  |  |
| Weekday | 1,702,477 | 58.3 | 3,059,661 | 54.7 | 3,535,381 | 57.5 | 25,449,692 | 57.0 |
| SE | 264,551 | 9.1 | 307,326 | 5.5 | 611,923 | 10.0 | 2,566,410 | 5.7 |
| Weekend | 1,215,268 | 41.7 | 2,535,032 | 45.3 | 2,613,457 | 42.5 | 19,202,011 | 43.0 |
| SE | 231,762 | 7.9 | 345,536 | 6.2 | 419,735 | 6.8 | 1,678,368 | 3.8 |
|  |  |  |  |  |  |  |  |  |
| Spring | 673,521 | 23.1 | 1,399,637 | 25.0 | 1,029,229 | 16.7 | 12,784,492 | 28.6 |
| SE | 142,063 | 4.9 | 293,492 | 5.2 | 191,294 | 3.1 | 1,266,131 | 2.8 |
| Summer | 1,168,675 | 40.1 | 2,458,505 | 43.9 | 4,168,640 | 67.8 | 19,531,036 | 43.7 |
| SE | 150,822 | 5.2 | 331,404 | 5.9 | 565,415 | 9.2 | 1,257,561 | 2.8 |
| Autumn | 761,781 | 26.1 | 1,246,362 | 22.3 | 854,355 | 13.9 | 8,547,541 | 19.1 |
| SE | 93,212 | 3.2 | 130,317 | 2.3 | 144,649 | 2.4 | 568,835 | 1.3 |
| Winter | 313,768 | 10.8 | 490,189 | 8.8 | 96,614 | 1.6 | 3,788,634 | 8.5 |
| SE | 70,879 | 2.4 | 177,916 | 3.2 | 50,111 | 0.8 | 285,195 | 0.6 |
|  |  |  |  |  |  |  |  |  |
| 2009-2010 | 2,639,674 | 12.9 | 7,354,867 | 18.8 | 7,491,347 | 17.4 | 42,299,849 | 13.5 |
| 2010-2011 | 4,016,012 | 19.7 | 6,680,613 | 17.1 | 6,152,642 | 14.3 | 46,002,236 | 14.7 |
| 2011-2012 | 4,031,682 | 19.7 | 5,453,979 | 13.9 | 5,148,079 | 12.0 | 44,767,764 | 14.3 |
| 2012-2013 | 2,785,306 | 13.6 | 6,667,025 | 17.0 | 4,040,510 | 9.4 | 41,153,318 | 13.2 |
| 2013-2014 | 2,099,540 | 10.3 | 5,283,588 | 13.5 | 9,158,208 | 21.3 | 40,277,817 | 12.9 |
| 2014-2015 | 2,012,460 | 9.9 | 3,902,900 | 10.0 | 3,666,600 | 8.5 | 48,831,460 | 15.6 |
| 2015-2016 | 2,839,543 | 13.9 | 3,819,877 | 9.8 | 7,384,480 | 17.2 | 49,229,477 | 15.8 |
| **Where** |  |  |  |  |  |  |  |  |
| East Midlands | 107,029 | 3.7 | 134,207 | 2.4 | 200,079 | 3.3 | 3,144,170 | 7.0 |
| SE | 49,486 | 1.7 | 44,807 | 0.8 | 80,075 | 1.3 | 154,538 | 0.3 |
| East of England | 303,637 | 10.4 | 447,285 | 8.0 | 610,834 | 9.9 | 4,521,428 | 10.1 |
| SE | 53,444 | 1.8 | 95,661 | 1.7 | 132,150 | 2.1 | 373,859 | 0.8 |
| London | 186,247 | 6.4 | 519,337 | 9.3 | 805,831 | 13.1 | 1,829,601 | 4.1 |
| SE | 80,552 | 2.8 | 79,168 | 1.4 | 151,693 | 2.5 | 184,477 | 0.4 |
| North East | 239,253 | 8.2 | 207,704 | 3.7 | 252,867 | 4.1 | 3,101,963 | 6.9 |
| SE | 86,664 | 3.0 | 71,695 | 1.3 | 99,633 | 1.6 | 296,789 | 0.7 |
| North West | 300,520 | 10.3 | 348,222 | 6.2 | 203,508 | 3.3 | 3,479,342 | 7.8 |
| SE | 57,477 | 2.0 | 69,860 | 1.2 | 69,197 | 1.1 | 296,203 | 0.7 |
| South East | 448,013 | 15.4 | 943,835 | 16.9 | 1,515,146 | 24.6 | 11,286,200 | 25.3 |
| SE | 95,138 | 3.3 | 214,478 | 3.8 | 297,088 | 4.8 | 906,275 | 2.0 |
| South West | 824,972 | 28.3 | 2,150,600 | 38.4 | 1,578,936 | 25.7 | 8,467,505 | 19.0 |
| SE | 150,118 | 5.1 | 271,599 | 4.9 | 264,325 | 4.3 | 405,857 | 0.9 |
| West Midlands | 167,158 | 5.7 | 336,477 | 6.0 | 452,533 | 7.4 | 3,095,842 | 6.9 |
| SE | 64,344 | 2.2 | 118,307 | 2.1 | 130,306 | 2.1 | 189,222 | 0.4 |
| Yorkshire and The Humber | 232,108 | 8.0 | 371,914 | 6.6 | 282,774 | 4.6 | 4,338,303 | 9.7 |
| SE | 36,792 | 1.3 | 105,093 | 1.9 | 106,074 | 1.7 | 390,336 | 0.9 |
| Notes:  Percentages for motivations can add up to greater than 100% as respondents could select more than one motivation item (see section 2.3.2).  Counts for the survey year variable are annual totals (i.e. the estimated number of visits to the location in that year of sampling). Every other variable represents an annual average (i.e. the average number of visits to that location over the seven years of sampling involving that activity, motivation, season etc.).  Standard errors of the mean represent standard errors across the 7 survey sampling years. Therefore, no standard errors are present for the survey year variable.  Grossing-up weights are applied to estimate frequencies at the English population level. These estimates are made from a total sample size of 130,851 randomly selected visits made in the previous week (each made by a different respondent) over the last seven years of the survey’s data collection except for the three motivation variables which are estimated from 30,188 such visits. The reason that this number is less than the total is because these items were only asked every month for the former three waves of the survey. For more information on the weighting procedures and how the grossing-up weights were constructed, see the recent technical report on the survey [20]. Total counts for the four activities do not add up to the same frequencies that would result from adding the counts for the four different activities in 'beach' and 'other coastline' environments from Table 1. This is due to the collapsing of these two locations into one variable (and subsequently averaging counts of the four activities across the seven survey years in this manner). | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table C. |  | | | | | | | |
|  |  | | | | | | | |
| Annual estimates of frequencies of walking on leisure visits to marine and comparator environments in England (2009/2010-2015/2016). | | | | | | | | |
| **What** | Walking (with or without a dog) | | | | | | | |
| **Where** | … in a marine location | | … at a river, lake or canal | | … in an urban open space | | … in a woodland or forest | |
|  | N Std Error | % | N Std Error | % | N Std Error | % | N Std Error | % |
| **Total** | 181,522,886 | 6.3 | 220,852,077 | 7.7 | 533,026,113 | 18.6 | 333,454,877 | 11.6 |
| **SE** | 8,162,364 | 4.5 | 10,672,742 | 4.8 | 33,628,496 | 6.3 | 15,725,695 | 4.7 |
| **Who** |  |  |  |  |  |  |  |  |
| Male | 83,996,715 | 46.3 | 103,708,892 | 47.0 | 246,041,466 | 46.2 | 157,929,407 | 47.4 |
| SE | 3,672,036 | 2.0 | 5,247,495 | 2.4 | 16,391,912 | 3.1 | 9,443,734 | 2.8 |
| Female | 97,526,171 | 53.7 | 117,143,185 | 53.0 | 286,984,647 | 53.8 | 175,525,470 | 52.6 |
| SE | 4,636,060 | 2.6 | 5,823,978 | 2.6 | 17,667,527 | 3.3 | 6,923,645 | 2.1 |
|  |  |  |  |  |  |  |  |  |
| Aged 16-34 | 31,803,181 | 17.5 | 44,258,946 | 20.0 | 162,280,364 | 30.4 | 65,227,117 | 19.6 |
| SE | 1,681,443 | 0.9 | 3,229,461 | 1.5 | 9,354,114 | 1.8 | 4,323,507 | 1.3 |
| Aged 35-64 | 105,567,004 | 58.2 | 132,820,661 | 60.1 | 282,010,066 | 52.9 | 209,383,988 | 62.8 |
| SE | 3,811,011 | 2.1 | 4,809,464 | 2.2 | 16,231,039 | 3.0 | 6,851,452 | 2.1 |
| Aged 65 and over | 44,152,701 | 24.3 | 43,772,470 | 19.8 | 88,735,682 | 16.6 | 58,843,772 | 17.6 |
| SE | 4,052,034 | 2.2 | 3,513,161 | 1.6 | 8,843,564 | 1.7 | 5,339,426 | 1.6 |
|  |  |  |  |  |  |  |  |  |
| AB classification | 59,789,813 | 32.9 | 77,423,058 | 35.1 | 144,573,206 | 27.1 | 117,328,086 | 35.2 |
| SE | 3,591,996 | 2.0 | 5,390,083 | 2.4 | 14,503,277 | 2.7 | 8,017,218 | 2.4 |
| C1 classification | 55,455,889 | 30.6 | 61,377,007 | 27.8 | 159,601,478 | 29.9 | 95,859,450 | 28.7 |
| SE | 2,774,165 | 1.5 | 3,249,700 | 1.5 | 11,315,979 | 2.1 | 5,593,556 | 1.7 |
| C2 classification | 35,663,653 | 19.6 | 42,231,337 | 19.1 | 105,135,020 | 19.7 | 68,002,071 | 20.4 |
| SE | 1,549,980 | 0.9 | 2,698,778 | 1.2 | 5,633,779 | 1.1 | 2,944,921 | 0.9 |
| DE classification | 30,613,531 | 16.9 | 39,820,675 | 18.0 | 123,716,409 | 23.2 | 52,265,269 | 15.7 |
| SE | 1,809,656 | 1.0 | 2,051,314 | 0.9 | 6,224,440 | 1.2 | 1,871,217 | 0.6 |
| **Why** |  |  |  |  |  |  |  |  |
| Health motivation | 77,159,597 | 42.5 | 114,592,495 | 51.9 | 207,898,833 | 39.0 | 185,700,094 | 55.7 |
| SE | 5,524,287 | 3.0 | 9,683,622 | 4.4 | 24,142,024 | 4.5 | 19,027,480 | 5.7 |
| Relaxation motivation | 74,431,178 | 41.0 | 86,097,737 | 39.0 | 155,276,763 | 29.1 | 129,157,460 | 38.7 |
| SE | 5,448,081 | 3.0 | 3,781,920 | 1.7 | 16,142,569 | 3.0 | 11,748,374 | 3.5 |
| Social motivation | 51,372,157 | 28.3 | 52,289,709 | 23.7 | 115,093,196 | 21.6 | 66,418,717 | 19.9 |
| SE | 4,529,129 | 2.5 | 5,672,223 | 2.6 | 12,511,559 | 2.3 | 5,212,362 | 1.6 |
| **When** |  |  |  |  |  |  |  |  |
| Weekday | 116,877,975 | 64.4 | 145,805,507 | 66.0 | 362,755,711 | 68.1 | 225,497,558 | 67.6 |
| SE | 10,351,425 | 5.7 | 13,256,593 | 6.0 | 31,167.197 | 0.0 | 17,258,963 | 5.2 |
| Weekend | 64,644,911 | 35.6 | 75,046,570 | 34.0 | 170,270,402 | 31.9 | 107,957,319 | 32.4 |
| SE | 5,210,586 | 2.9 | 3,575,427 | 1.6 | 9,843,238 | 1.8 | 5,071,370 | 1.5 |
|  |  |  |  |  |  |  |  |  |
| Spring | 50,996,937 | 28.1 | 64,604,845 | 29.3 | 138,527,678 | 26.0 | 91,553,475 | 27.5 |
| SE | 3,656,189 | 2.0 | 4,439,489 | 2.0 | 9,891,799 | 1.9 | 3,429,834 | 1.0 |
| Summer | 50,000,752 | 27.5 | 62,232,818 | 28.2 | 143,726,339 | 27.0 | 83,067,335 | 24.9 |
| SE | 2,303,813 | 1.3 | 3,757,206 | 1.7 | 11,595,178 | 2.2 | 5,557,795 | 1.7 |
| Autumn | 39,800,406 | 21.9 | 48,682,341 | 22.0 | 130,005,566 | 24.4 | 78,278,197 | 23.5 |
| SE | 1,662,950 | 0.9 | 3,037,269 | 1.4 | 9,957,451 | 1.9 | 4,868,463 | 1.5 |
| Winter | 40,724,791 | 22.4 | 45,332,073 | 20.5 | 120,766,530 | 22.7 | 80,555,870 | 24.2 |
| SE | 2,806,925 | 1.5 | 2,121,292 | 1.0 | 8,077,831 | 1.5 | 6,744,776 | 2.0 |
|  |  |  |  |  |  |  |  |  |
| 2009-2010 | 176,524,548 | 13.9 | 205,271,905 | 13.3 | 484,555,539 | 13.0 | 279,933,826 | 12.0 |
| 2010-2011 | 165,777,177 | 13.0 | 192,335,977 | 12.4 | 404,982,370 | 10.9 | 295,859,115 | 12.7 |
| 2011-2012 | 161,716,911 | 12.7 | 213,394,618 | 13.8 | 456,942,540 | 12.2 | 328,229,583 | 14.1 |
| 2012-2013 | 183,754,257 | 14.5 | 205,047,561 | 13.3 | 533,036,704 | 14.3 | 318,943,790 | 13.7 |
| 2013-2014 | 163,325,824 | 12.9 | 224,403,778 | 14.5 | 589,169,042 | 15.8 | 338,817,078 | 14.5 |
| 2014-2015 | 219,778,330 | 17.3 | 226,539,390 | 14.7 | 615,182,000 | 16.5 | 374,415,930 | 16.0 |
| 2015-2016 | 199,783,154 | 15.7 | 278,971,310 | 18.0 | 647,314,595 | 17.3 | 397,984,816 | 17.1 |
| **Where** |  |  |  |  |  |  |  |  |
| East Midlands | 5,475,268 | 3.0 | 22,774,905 | 10.3 | 34,456,799 | 6.5 | 28,046,110 | 8.4 |
| SE | 500,817 | 0.3 | 2,148,409 | 1.0 | 2,257,242 | 0.4 | 1,537,088 | 0.5 |
| East of England | 13,902,952 | 7.7 | 21,087,514 | 9.5 | 54,103,263 | 10.2 | 40,322,074 | 12.1 |
| SE | 905,308 | 0.5 | 1,599,100 | 0.7 | 5,152,018 | 1.0 | 2,790,927 | 0.8 |
| London | 2,907,374 | 1.6 | 6,296,085 | 2.9 | 101,134,458 | 19.0 | 9,843,989 | 3.0 |
| SE | 369,509 | 0.2 | 870,777 | 0.4 | 9,800,770 | 1.8 | 1,564,496 | 0.5 |
| North East | 25,433,430 | 14.0 | 11,117,746 | 5.0 | 23,576,528 | 4.4 | 25,124,548 | 7.5 |
| SE | 1,772,019 | 1.0 | 1,208,244 | 0.5 | 914,140 | 0.2 | 2,689,005 | 0.8 |
| North West | 23,277,685 | 12.8 | 27,838,823 | 12.6 | 82,624,167 | 15.5 | 26,426,334 | 7.9 |
| SE | 816,229 | 0.4 | 2,394,416 | 1.1 | 6,249,264 | 1.2 | 3,243,083 | 1.0 |
| South East | 45,504,055 | 25.1 | 28,491,617 | 12.9 | 72,925,131 | 13.7 | 62,386,636 | 18.7 |
| SE | 4,925,816 | 2.7 | 1,365,402 | 0.6 | 4,664,986 | 0.9 | 4,090,647 | 1.2 |
| South West | 39,369,696 | 21.7 | 29,917,586 | 13.5 | 42,652,077 | 8.0 | 53,470,395 | 16.0 |
| SE | 2,342,759 | 1.3 | 2,766,819 | 1.3 | 3,278,091 | 0.6 | 2,724,217 | 0.8 |
| West Midlands | 4,664,040 | 2.6 | 38,865,200 | 17.6 | 64,627,397 | 12.1 | 39,767,692 | 11.9 |
| SE | 485,010 | 0.3 | 3,840,958 | 1.7 | 4,826,353 | 0.9 | 3,272,257 | 1.0 |
| Yorkshire and The Humber | 16,664,811 | 9.2 | 30,054,337 | 13.6 | 44,260,846 | 8.3 | 41,680,408 | 12.5 |
| SE | 981,790 | 0.5 | 1,201,012 | 0.5 | 1,877,200 | 0.4 | 3,144,082 | 0.9 |
| Notes:  Percentages for motivations can add up to greater than 100% as respondents could select more than one motivation item (see section 2.3.2).  Counts for the survey year variable are annual totals (i.e. the estimated number of visits to the location in that year of sampling). Every other variable represents an annual average (i.e. the average number of visits to that location over the seven years of sampling involving that activity, motivation, season etc.).  Standard errors of the mean represent standard errors across the 7 survey sampling years. Therefore, no standard errors are present for the survey year variable.  Grossing-up weights are applied to estimate frequencies at the English population level. These estimates are made from a total sample size of 130,851 randomly selected visits made in the previous week (each made by a different respondent) over the last seven years of the survey’s data collection except for the three motivation variables which are estimated from 30,188 such visits. The reason that this number is less than the total is because these items were only asked every month for the former three waves of the survey. For more information on the weighting procedures and how the grossing-up weights were constructed, see the recent technical report on the survey [20]. | | | | | | | | |