Supplementary materials

Table 1. Summary of search terms

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Event | Location  | Minimum date | Maximum date | Postcode | Location keyword | Keywords | Activity categories |
| Download Pilot Music Festival | Donington Park | 18/06/2021 | 20/06/2021(21st camping) | de742, rg142dz | donington, donnington, download | music, piolet, pilot, festival, camp, tent, field, fest | festival, live\_music, party, public\_events\_and\_mass\_gathering |
| Cricket: England vs NZ | Edgbaston Stadium / Warwickshire CCC | 10/06/2021 | 13/06/2021 | b57qu | edgbaston, edge baston, edgebaston, edgabaton, edgebasting | cricket | cricket\_match, gym\_sports\_leisure\_facility |
| Cricket: England vs Sri Lanka - 1st ODI | Emirates Riverside - Durham Cricket, County Durham | 29/06/2021 | 29/06/2021 | dh33 | durham, chester le street | cricket, lanka, riverside, emirates | cricket\_match, gym\_sports\_leisure\_facility |
| Cricket: England vs Sri Lanka - 2nd ODI | The Kia Oval - Surrey CCC, London | 01/07/2021 | 01/07/2021 | se115ss, se115sg | kia, oval | cricket, lanka | cricket\_match, gym\_sports\_leisure\_facility |
| Cricket: England vs Sri Lanka - 3rd ODI | The Bristol County Ground / Gloucestershire CCC, Bristol | 04/07/2021 | 04/07/2021 | bs79ej | bristol, gloucestershire | cricket, county, ground, lanka | cricket\_match, gym\_sports\_leisure\_facility |
| Cricket: England vs Pakistan 2nd ODI | Lords Cricket Ground MCC, London | 10/07/2021 | 10/07/2021 | nw88qn, nw87jy, nw88qp, nw88rb | lords, lord's | cricket, pakistan | cricket\_match, gym\_sports\_leisure\_facility |
| EURO 2020 | Wembley Stadium | 11/06/2021 | 11/07/2021 | ha90ws, ha90sl, ha90aa | wembley | stadium, stadtium, staduim, football, england, scotland, czech, italy, austria, germany, denmark, spain, euro, football | football\_match, gym\_sports\_leisure\_facility |
| Goodwood Festival of Speed | Goodwood House | 08/07/2021 | 11/07/2021(12th camping) | po180 | goodwood | festival, speed, fos, camp, tent, field, fest | sport\_events, public\_events\_and\_mass\_gathering, festival |
| Royal Ascot | Ascot Racecourse | 15/06/2021 | 18/06/2021 | sl57jx | ascot | racing, horse, royal, race | horse\_races, public\_events\_and\_mass\_gathering, sport\_events |
| The Open Golf | Royal St George’s Golf Club | 11/07/2021 | 18/07/2021 | ct139pb | sandwich | open, golf, royal, george | sport\_events |
| Wimbledon | Wimbledon Lawn Tennis Club | 28/06/2021 | 11/07/2021 | sw195ae, sw195ag | wimbledon | tennis, all england, aeltc | tennis\_match |

Table 2. Age-sex pyramid data.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age group | Sex | Cricket (Various) | Download Festival | EURO 2020 | Goodwood Festival | The Open Golf | Wimbledon |
| 00 - 04 | female | 0 | 0 | <5 | <5 | 0 | 0 |
| 00 - 04 | male | 0 | 0 | <5 | <5 | 0 | 0 |
| 05 - 09 | female | 0 | 0 | 5 | <5 | 0 | 0 |
| 05 - 09 | male | <5 | 0 | 31 | <5 | 0 | <5 |
| 10 - 14 | female | <5 | 0 | 36 | <5 | <5 | <5 |
| 10 - 14 | male | 6 | 0 | 191 | 11 | <5 | 9 |
| 15 - 19 | female | <5 | <5 | 67 | 5 | 0 | 14 |
| 15 - 19 | male | 11 | <5 | 421 | 23 | 5 | 19 |
| 20 - 24 | female | 10 | 20 | 121 | 13 | <5 | 40 |
| 20 - 24 | male | 34 | 25 | 700 | 37 | <5 | 46 |
| 25 - 29 | female | 10 | 9 | 179 | 15 | <5 | 87 |
| 25 - 29 | male | 50 | 24 | 1256 | 25 | 17 | 81 |
| 30 - 34 | female | 6 | 5 | 171 | 10 | 0 | 56 |
| 30 - 34 | male | 29 | 7 | 1377 | 17 | 18 | 66 |
| 35 - 39 | female | <5 | <5 | 113 | 5 | 0 | 34 |
| 35 - 39 | male | 30 | <5 | 1090 | 26 | 22 | 47 |
| 40 - 44 | female | <5 | 0 | 94 | 8 | <5 | 28 |
| 40 - 44 | male | 40 | 0 | 761 | 32 | 12 | 55 |
| 45 - 49 | female | <5 | 0 | 70 | 8 | 0 | 26 |
| 45 - 49 | male | 27 | <5 | 482 | 22 | 15 | 37 |
| 50 - 54 | female | <5 | 0 | 76 | <5 | <5 | 33 |
| 50 - 54 | male | 29 | <5 | 414 | 14 | 13 | 28 |
| 55 - 59 | female | 0 | 0 | 51 | <5 | <5 | 20 |
| 55 - 59 | male | 21 | <5 | 348 | 8 | 15 | 28 |
| 60 - 64 | female | 5 | 0 | 23 | <5 | <5 | 10 |
| 60 - 64 | male | 11 | 0 | 217 | 12 | 11 | 18 |
| 65 - 69 | female | <5 | 0 | 11 | 0 | 0 | 8 |
| 65 - 69 | male | 13 | 0 | 104 | <5 | 6 | <5 |
| 70 - 74 | female | <5 | 0 | 6 | 0 | 0 | <5 |
| 70 - 74 | male | 7 | 0 | 39 | <5 | 0 | <5 |
| 75 - 79 | female | 0 | 0 | 0 | 0 | 0 | <5 |
| 75 - 79 | male | <5 | 0 | 11 | 0 | <5 | <5 |
| 80 - 84 | male | <5 | 0 | <5 | <5 | <5 | 0 |
| 85 - 89 | male | 0 | 0 | <5 | 0 | 0 | <5 |

Table 3. Number of activity and household visitor events reported by cases between 9th June - 19th July, by event date.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Event date | Eating out (not pub or bar) | Entertainment and day trips (not pub or bar) | Household visit | Other activities | Private events and celebrations | Pub or bar | Public events and mass gathering | Sport events (including football matches) | Travel |
| 09/06/2021 | 949 | 428 | 1172 | 5216 | 55 | 1232 | 21 | 248 | 1001 |
| 10/06/2021 | 961 | 409 | 1200 | 5044 | 57 | 1356 | 37 | 263 | 1021 |
| 11/06/2021 | 1341 | 590 | 1819 | 5626 | 116 | 2524 | 66 | 261 | 1392 |
| 12/06/2021 | 1947 | 927 | 2978 | 6958 | 271 | 3326 | 116 | 567 | 1259 |
| 13/06/2021 | 1210 | 592 | 3160 | 4923 | 141 | 2394 | 109 | 447 | 1151 |
| 14/06/2021 | 939 | 414 | 1552 | 6225 | 46 | 1199 | 25 | 239 | 1294 |
| 15/06/2021 | 1054 | 438 | 1576 | 6813 | 45 | 1444 | 31 | 358 | 1267 |
| 16/06/2021 | 1270 | 554 | 1578 | 7189 | 77 | 1667 | 62 | 357 | 1444 |
| 17/06/2021 | 1247 | 486 | 1583 | 7169 | 66 | 1654 | 54 | 383 | 1446 |
| 18/06/2021 | 1657 | 728 | 2714 | 7469 | 188 | 5012 | 160 | 467 | 1929 |
| 19/06/2021 | 2996 | 1370 | 4031 | 10011 | 329 | 5046 | 201 | 799 | 1518 |
| 20/06/2021 | 2502 | 957 | 5073 | 6714 | 137 | 2369 | 131 | 624 | 1188 |
| 21/06/2021 | 1505 | 678 | 2322 | 8873 | 137 | 1802 | 86 | 420 | 1708 |
| 22/06/2021 | 1545 | 714 | 2645 | 9543 | 161 | 3880 | 94 | 630 | 1810 |
| 23/06/2021 | 1901 | 777 | 2496 | 10246 | 159 | 2207 | 101 | 652 | 1821 |
| 24/06/2021 | 2103 | 889 | 2573 | 10323 | 196 | 2559 | 100 | 617 | 2025 |
| 25/06/2021 | 3170 | 1413 | 3694 | 10922 | 453 | 5649 | 159 | 443 | 2532 |
| 26/06/2021 | 4459 | 2475 | 6249 | 13823 | 982 | 7482 | 365 | 1290 | 2071 |
| 27/06/2021 | 2725 | 1384 | 5624 | 9446 | 350 | 2762 | 195 | 844 | 1736 |
| 28/06/2021 | 1712 | 711 | 3294 | 10970 | 162 | 1528 | 66 | 583 | 1960 |
| 29/06/2021 | 1741 | 890 | 3575 | 10253 | 147 | 5945 | 245 | 1303 | 1942 |
| 30/06/2021 | 2046 | 816 | 3154 | 11095 | 145 | 2085 | 85 | 702 | 1776 |
| 01/07/2021 | 2095 | 822 | 3165 | 11247 | 200 | 2189 | 102 | 688 | 1808 |
| 02/07/2021 | 3071 | 1403 | 4377 | 12182 | 434 | 4799 | 200 | 663 | 2235 |
| 03/07/2021 | 4176 | 2687 | 7466 | 15257 | 1192 | 12283 | 687 | 1816 | 1820 |
| 04/07/2021 | 2880 | 1585 | 6343 | 10073 | 482 | 2812 | 259 | 1048 | 1486 |
| 05/07/2021 | 1803 | 845 | 3633 | 12792 | 160 | 1521 | 96 | 697 | 1862 |
| 06/07/2021 | 1992 | 899 | 3615 | 13413 | 152 | 2095 | 141 | 1517 | 2018 |
| 07/07/2021 | 2065 | 1596 | 4535 | 14123 | 241 | 9414 | 656 | 3826 | 2438 |
| 08/07/2021 | 2559 | 1190 | 3760 | 14699 | 281 | 2347 | 159 | 1025 | 2257 |
| 09/07/2021 | 4067 | 1846 | 5269 | 16252 | 649 | 5331 | 283 | 986 | 2823 |
| 10/07/2021 | 6298 | 3606 | 8476 | 20367 | 1873 | 8860 | 634 | 2218 | 2738 |
| 11/07/2021 | 3662 | 3523 | 12204 | 14969 | 1185 | 22940 | 2674 | 9954 | 3561 |
| 12/07/2021 | 2283 | 1132 | 5309 | 15105 | 211 | 1975 | 230 | 917 | 3246 |
| 13/07/2021 | 2413 | 1193 | 4933 | 16844 | 192 | 1886 | 169 | 1148 | 2361 |
| 14/07/2021 | 2660 | 1324 | 5128 | 16980 | 296 | 2122 | 169 | 895 | 2495 |
| 15/07/2021 | 2370 | 1191 | 4520 | 15441 | 343 | 1983 | 198 | 790 | 2613 |
| 16/07/2021 | 2992 | 1471 | 5191 | 14996 | 578 | 3237 | 276 | 887 | 2914 |
| 17/07/2021 | 3737 | 2269 | 7345 | 16145 | 1310 | 4298 | 505 | 1402 | 2542 |
| 18/07/2021 | 2316 | 1609 | 6674 | 11179 | 568 | 1958 | 512 | 1138 | 2263 |
| 19/07/2021 | 1459 | 1810 | 3685 | 12315 | 399 | 1255 | 735 | 415 | 2315 |