**COVID19 vaccine-total mortality associations for 6 age classes in 23 countries, 42 weeks**

Hervé Seligmann

We analysed associations between weekly increases in total vaccination % in 23 countries ([Coronavirus (COVID-19) Vaccinations - Statistics and Research - Our World in Data](https://ourworldindata.org/covid-vaccinations), appendix 1) and weekly total mortality data for 6 age classes for the first 42 weeks of 2021 from these 23 countries ([Graphs and maps — EUROMOMO](https://www.euromomo.eu/graphs-and-maps), appendix 2). Pearson correlation coefficients r were calculated between each pair of weekly vaccination and weekly mortality data, for mortality occurring the same week as vaccination or an ulterior week. Vaccination data pool all age classes, mortalities are specific to each age class. The r values are examined in relation to the time lag, in weeks, between vaccination and mortality, separately for each age class. Positive correlations indicate adverse vaccine effects, negative correlations between vaccination and mortality indicative vaccine protection.

Results

1. In all ages, vaccination increases mortality during the first 2-6 weeks after 1st injection,

2. and up to 18 weeks after 1st injection in unvaccinated children below 15.

3. For ages >14, weekly injection rates associate with decreased weekly total mortality for weeks 5-20 after 1st injection,

4. and with increased mortality after week 20, indicating potential long-term adverse effects of injections

5. For children < 15, adult vaccination also associates with greater mortality for weeks 25-37.

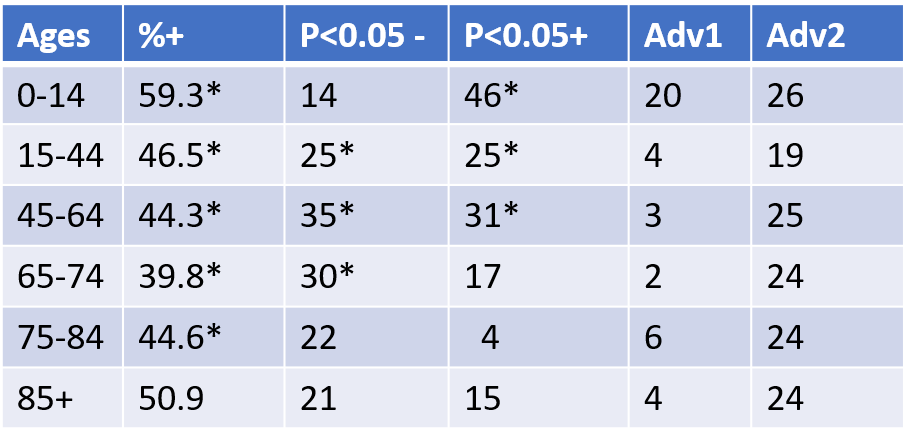
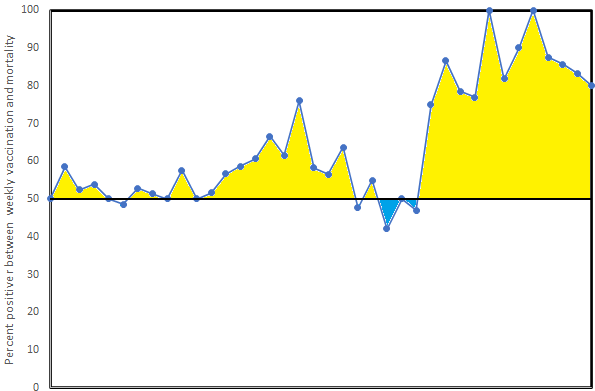
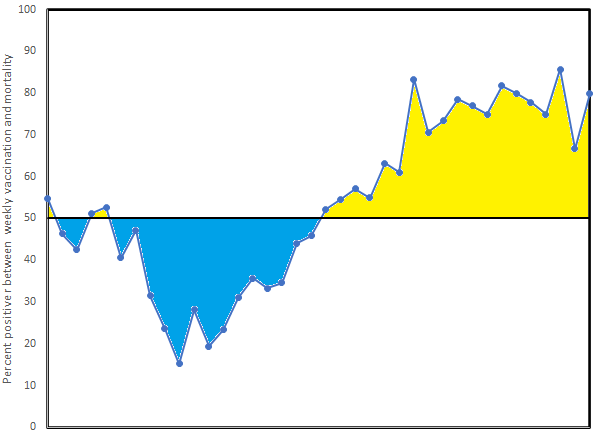
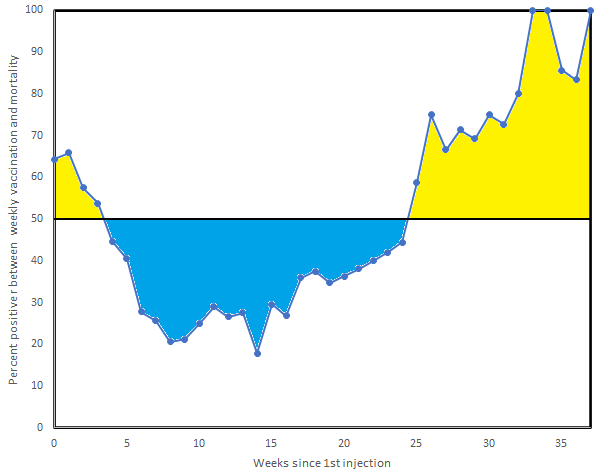
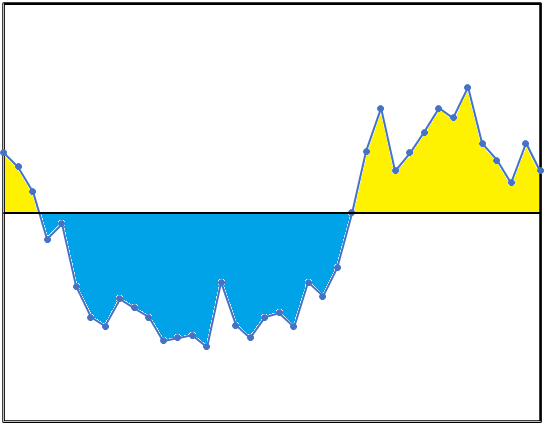
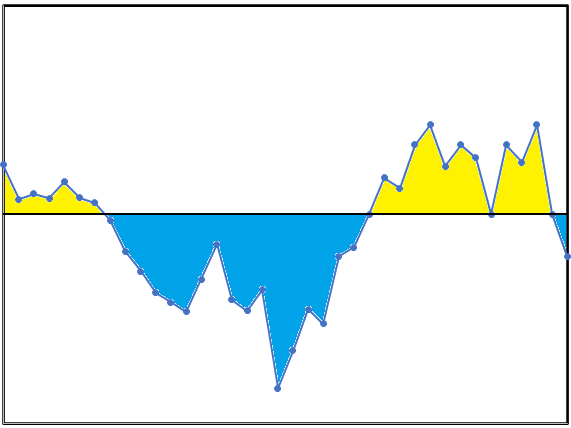
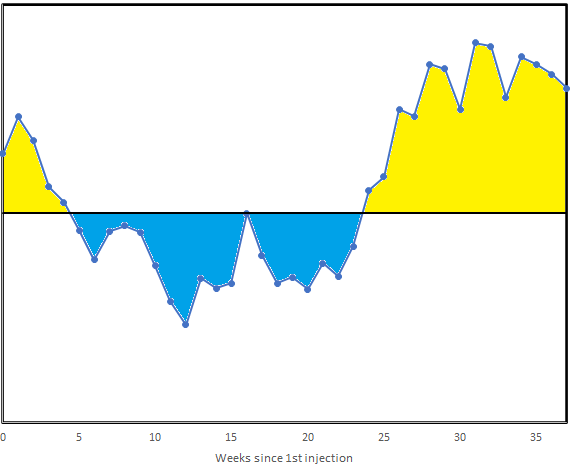
Figure 1. Z-score of weekly mortality for ages 15-44 in 23 countries on week 14 of 2021 as a function of increase in percent vaccinated in these countries, during week 11 of 2021. For this analysis, the time lag in weeks between injection and mortality is 14-11=3 weeks. The association indicates adverse injection effects during the first weeks after injection.

Table 1 and Figure 2 resume results of correlation analyses for all age classes and all combinations of weeks, with mortality occurring the same week or after the injection week. Pearson correlation coefficients r from these analyses are in appendix 3.

Table 1. Summary of results of Pearson correlation coefficients r analyses between weekly increase in percent vaccinated and weekly mortality in 23 countries. Column 1: weeks between mortality and 1st injection. Column 2: number of correlations summarized. Columns 3-8 are percentage of positive r for each age class, columns 9-14 are numbers of negative and positive r with P < 0.05. Blue: overall protective effect (more injections->lower mortality); yellow: overall adverse effect (more injections->lower mortality). \* P < 0.05, sign test. For each age class, numbers of runs of consecutive lags below and above 50 are lower than expected (P < 0.05, two tailed).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lag | n | 0-14 | 15-44 | 45-64 | 65-74 | 75-84 | 85+ | 0-14 | 15-44 | 45-64 | 65-74 | 75-84 | 85+ |
| 0 | 42 | 50 | 55 | 64\* | 64\* | 62 | 64\* | 2 1 | 1 2 | 0 3 | 0 2 | 1 0 | 0 1 |
| 1 | 41 | 59 | 46 | 66\* | 61 | 54 | 73\* | 1 2 | 0 3 | 0 3 | 0 2 | 1 0 | 0 0 |
| 2 | 40 | 53 | 43 | 58 | 55 | 55 | 68\*\* | 0 1 | 1 1 | 0 2 | 1 00 | 0 0 | 0 0 |
| 3 | 39 | 54 | 51 | 54 | 44 | 54 | 56 | 0 2 | 0 1 | 1 1 | 1 1 | 0 0 | 0 0 |
| 4 | 38 | 50 | 53 | 45 | 47 | 58 | 53 | 1 1 | 0 1 | 1 0 | 2 0 | 0 0 | 0 0 |
| 5 | 37 | 49 | 41 | 41 | 32 | 54 | 46 | 0 2 | 0 1 | 2 1 | 0 0 | 0 0 | 1 1 |
| 6 | 36 | 53 | 47 | 28\* | 25\* | 53 | 39 | 0 2 | 0 0 | 2 1 | 0 0 | 0 0 | 1 0 |
| 7 | 35 | 51 | 31\* | 26\* | 23\* | 49 | 46 | 0 2 | 0 1 | 2 0 | 1 1 | 2 0 | 1 0 |
| 8 | 34 | 50 | 24\* | 21\* | 29\* | 41 | 47 | 0 3 | 1 0 | 3 0 | 3 0 | 3 0 | 0 1 |
| 9 | 33 | 58 | 15\* | 21\* | 27\* | 36 | 45 | 0 2 | 1 0 | 2 1 | 4 1 | 2 1 | 0 0 |
| 10 | 32 | 50 | 28\* | 25\* | 25\* | 31 | 38 | 1 2 | 1 0 | 2 0 | 3 1 | 1 0 | 1 1 |
| 11 | 31 | 52 | 19\* | 29\* | 19\* | 29 | 29\* | 0 0 | 1 0 | 0 1 | 2 0 | 1 0 | 0 0 |
| 12 | 30 | 57 | 23\* | 27\* | 20\* | 27\* | 23\* | 2 2 | 1 0 | 2 0 | 3 0 | 1 0 | 0 0 |
| 13 | 29 | 59 | 31\* | 28\* | 21\* | 37 | 34 | 0 2 | 1 1 | 1 0 | 2 0 | 0 0 | 2 0 |
| 14 | 28 | 61 | 36 | 18\* | 18\* | 45 | 32 | 0 0 | 3 0 | 0 0 | 1 0 | 0 0 | 1 0 |
| 15 | 27 | 67 | 33 | 30 | 33 | 30 | 33 | 0 2 | 1 0 | 0 0 | 3 0 | 1 0 | 2 1 |
| 16 | 26 | 62 | 35 | 27 | 23\* | 27\* | 50 | 0 2 | 2 0 | 1 0 | 0 0 | 1 0 | 2 0 |
| 17 | 25 | 76\* | 44 | 36 | 20\* | 32 | 40 | 0 3 | 1 0 | 2 1 | 1 0 | 1 1 | 3 0 |
| 18 | 24 | 58 | 48 | 38 | 28\* | 12\* | 33 | 0 3 | 2 0 | 2 0 | 1 0 | 1 1 | 2 0 |
| 19 | 23 | 57 | 56 | 35 | 26\* | 21\* | 35 | 0 1 | 2 0 | 3 1 | 1 0 | 0 1 | 2 0 |
| 20 | 22 | 64 | 58 | 36 | 26\* | 30\* | 32 | 0 0 | 2 0 | 2 1 | 1 0 | 2 0 | 2 0 |
| 21 | 21 | 48 | 58 | 38 | 33 | 24\* | 38 | 2 2 | 1 0 | 1 0 | 0 0 | 0 0 | 0 0 |
| 22 | 20 | 55 | 57 | 40 | 30 | 40 | 35 | 3 1 | 1 0 | 3 0 | 0 0 | 0 0 | 0 0 |
| 23 | 19 | 42 | 62 | 42 | 37 | 42 | 42 | 1 1 | 0 1 | 0 0 | 0 0 | 0 0 | 0 0 |
| 24 | 18 | 50 | 60 | 44 | 53 | 53 | 56 | 1 0 | 1 0 | 0 0 | 0 0 | 1 0 | 0 1 |
| 25 | 17 | 47 | 80\* | 59 | 67 | 59 | 59 | 0 1 | 0 0 | 1 0 | 0 1 | 1 0 | 0 0 |
| 26 | 16 | 75 | 74 | 75 | 75\* | 59 | 75\* | 0 0 | 0 1 | 1 0 | 0 1 | 0 0 | 0 1 |
| 27 | 15 | 87\* | 78 | 67 | 60 | 67 | 73 | 0 0 | 0 1 | 1 0 | 0 1 | 0 0 | 0 0 |
| 28 | 14 | 79\* | 82 | 71 | 64 | 71 | 86\* | 0 0 | 1 0 | 0 3 | 0 1 | 0 0 | 0 0 |
| 29 | 13 | 77\* | 81 | 69 | 71 | 64 | 85\* | 0 0 | 0 1 | 0 3 | 0 1 | 1 0 | 1 0 |
| 30 | 12 | 100\* | 80 | 75 | 75 | 69 | 75 | 0 0 | 0 3 | 0 2 | 0 0 | 0 0 | 0 2 |
| 31 | 11 | 82\* | 86\* | 73 | 73 | 64 | 91\* | 0 1 | 0 2 | 0 1 | 0 1 | 0 0 | 0 0 |
| 32 | 10 | 90\* | 85 | 80 | 82 | 55 | 90\* | 0 2 | 0 1 | 0 2 | 0 1 | 1 0 | 0 2 |
| 33 | 9 | 100\* | 83 | 100\* | 67 | 70 | 78 | 0 1 | 0 2 | 0 2 | 0 1 | 0 0 | 0 2 |
| 34 | 8 | 88\* | 82 | 100\* | 63 | 67 | 88\* | 0 0 | 0 1 | 0 1 | 0 1 | 0 0 | 0 1 |
| 35 | 7 | 86\* | 90 | 86 | 57 | 75 | 86 | 0 1 | 0 1 | 0 1 | 0 0 | 0 0 | 0 1 |
| 36 | 6 | 83 | 75 | 83 | 67 | 50 | 83 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 37 | 5 | 80 | 86 | 100\* | 60 | 40 | 80 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| 38 | 4 |  |  |  |  |  |  | 0 1 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |

Figure 2. Graphical representation of Table 1. Adverse effects in yellow, above horizontal line, protective effects in blue, below horizontal line.



Age 85+

P < 0.05 at lags – 11,12,

+0-2, 26, 28,29, 31,32,34

Age 45-64

P < 0.05 at lags

- 6-14, + 0-1, 33,34,37

Age 15-44

P < 0.05 at lags

- 7-13, + 25, 31

Age 75-84

P < 0.05 at lags -12,16,18-21

Age 0-14

P < 0.05 at lags +17, 27-35

Age 65-74

P < 0.05 at lags

- 6-14,16-20, +0, 26

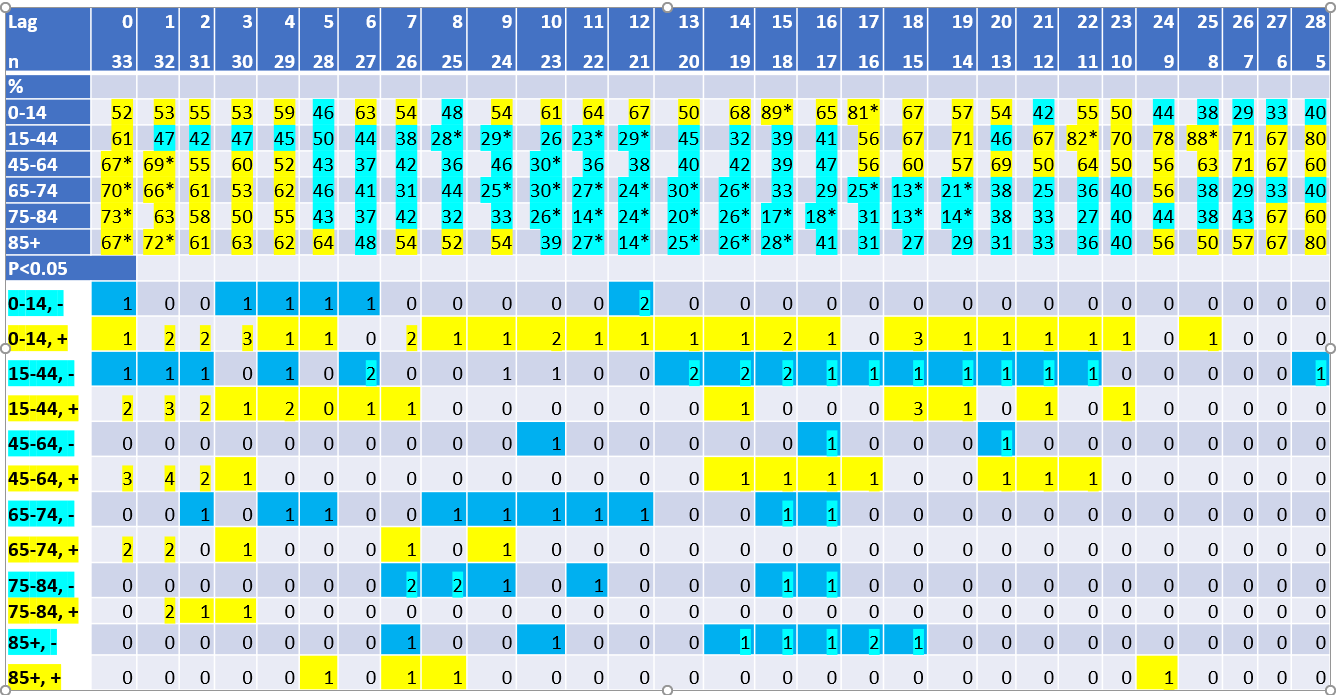


Table 1. Summary of results of Pearson correlation coefficients r analyses between weekly increase in percent vaccinated and weekly mortality in 23 countries. %, percentage of positive r. -/+, numbers of r with P < 0.05. Blue: overall protective effect (more injections->lower mortality); yellow: overall adverse effect (more injections->lower mortality). First row: weeks between mortality and injection. Second row: number of correlations summarized. \* P < 0.05, sign test.

Appendix 1. Weekly increases in percentx100 vaccinated in 23 countries, Coronavirus (COVID-19) Vaccinations - Statistics and Research - Our World in Data. Columns are: 1- Austria, 2-Belgium, 2-Cyprus, 4-Denmark, 5-Estonia, 6-Finland, 7-France, 8-Germany, 9-Greece, 10- Hungary, 11-Ireland, 12-Israel, 13-Italy, 14-Luxemburg, 15-Malta, 16-Netherlands, 17-Norway, 18-Portugal, 19-Slovenia, 20-Spain, 21-Sweden, 22-Switzerland, 23-UK.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Period | N | Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 1-7 Jan | 14 | 1 | 6 | 1 |  | 59 | 19 |  | 0 | 24 | 2 |  |  | 898 | 6 | 19 |  |  | 4 | 31 | 53 |  | 9 |  |  |
| 8-14 Jan | 17 | 2 | 6 | 12 | 45 | 119 | 41 |  | 7 | 38 | 23 |  |  | 910 | 64 | 9 |  |  | 35 | 39 | 74 | 44 | 24 |  | 270 |
| 15-21 Jan | 18 | 3 | 81 | 68 | 48 | 74 | 65 |  | 44 | 60 | 43 |  |  | 348 | 99 | 24 |  | 33 | 46 | 39 | 83 | 101 | 56 |  | 207 |
| 22-28 Jan | 21 | 4 | 119 | 97 | 53 | 54 | 40 |  | 88 | 57 | 51 | 144 | 7 | 481 | 49 | 58 | 374 | 39 | 55 | 74 | 39 | 80 | 90 |  | 316 |
| 29 Jan-4 Feb | 22 | 5 | 44 | 78 | 54 | 5 | 33 | 231 | 84 | 40 | 83 | 37 | 32 | 535 | 7 | 48 | 128 | 80 | 54 | 38 | 11 | 36 | 83 |  | 369 |
| 5-11 Feb | 22 | 6 | 17 | 33 | 43 | 13 | 41 | 40 | 47 | 36 | 63 | 77 | 62 | 411 | 6 | 43 | 92 | 111 | 66 | 45 | 4 | 13 | 53 |  | 383 |
| 12-18 Feb | 22 | 7 | 21 | 32 | 57 | 26 | 75 | 50 | 53 | 47 | 74 | 47 | 116 | 435 | 26 | 39 | 123 | 101 | 123 | 27 | 20 | 21 | 44 |  | 445 |
| 24 Feb-2 Mar | 23 | 8 | 45 | 25 | 85 | 118 | 79 | 93 | 48 | 60 | 57 | 73 | 155 | 518 | 63 | 89 | 170 | 97 | 108 | 67 | 98 | 55 | 57 | 550 | 429 |
| 3-9 Mar | 23 | 9 | 81 | 61 | 122 | 152 | 124 | 132 | 44 | 77 | 105 | 148 | 160 | 512 | 100 | 75 | 224 | 122 | 92 | 124 | 124 | 121 | 83 | 60 | 334 |
| 10-16 Mar | 23 | 10 | 144 | 89 | 204 | 203 | 139 | 184 | 80 | 114 | 116 | 287 | 118 | 305 | 134 | 66 | 169 | 130 | 101 | 164 | 139 | 154 | 122 | 64 | 338 |
| 17-23 Mar | 23 | 11 | 172 | 130 | 125 | 161 | 202 | 200 | 166 | 150 | 158 | 377 | 125 | 203 | 157 | 116 | 367 | 120 | 124 | 125 | 108 | 160 | 161 | 94 | 305 |
| 24-30 Mar | 23 | 12 | 256 | 163 | 149 | 59 | 278 | 218 | 186 | 147 | 103 | 302 | 181 | 138 | 126 | 216 | 442 | 84 | 80 | 98 | 109 | 82 | 147 | 88 | 395 |
| 31 Mar-6 Apr | 23 | 13 | 194 | 215 | 235 | 87 | 200 | 223 | 188 | 146 | 116 | 317 | 197 | 77 | 136 | 173 | 474 | 85 | 153 | 88 | 102 | 62 | 122 | 106 | 480 |
| 7-13 Apr | 23 | 14 | 189 | 211 | 100 | 151 | 196 | 240 | 248 | 191 | 54 | 330 | 148 | 47 | 204 | 194 | 671 | 159 | 242 | 266 | 267 | 208 | 161 | 148 | 317 |
| 14-20 Apr | 23 | 15 | 157 | 214 | 101 | 135 | 250 | 182 | 192 | 207 | 212 | 561 | 233 | 56 | 201 | 248 | 491 | 250 | 172 | 150 | 191 | 235 | 269 | 95 | 97 |
| 21-27 Apr | 23 | 16 | 280 | 409 | 182 | 321 | 240 | 355 | 270 | 384 | 246 | 500 | 330 | 47 | 260 | 295 | 377 | 355 | 337 | 258 | 271 | 393 | 324 | 209 | 94 |
| 28 Apr-4 May | 23 | 17 | 296 | 354 | 290 | 233 | 206 | 434 | 235 | 374 | 294 | 340 | 338 | 34 | 282 | 255 | 470 | 356 | 336 | 393 | 178 | 349 | 346 | 260 | 120 |
| 5-11 May | 23 | 18 | 313 | 326 | 490 | 281 | 208 | 302 | 238 | 435 | 214 | 466 | 354 | 32 | 300 | 213 | 467 | 316 | 276 | 234 | 126 | 350 | 372 | 179 | 141 |
| 12-18 May | 23 | 19 | 367 | 423 | 574 | 240 | 257 | 453 | 288 | 456 | 268 | 232 | 330 | 21 | 367 | 413 | 595 | 316 | 193 | 329 | 279 | 333 | 333 | 361 | 127 |
| 19-25 May | 23 | 20 | 343 | 280 | 535 | 265 | 213 | 291 | 503 | 415 | 309 | 323 | 659 | 15 | 368 | 406 | 577 | 384 | 162 | 358 | 410 | 338 | 265 | 326 | 177 |
| 26 May-1 Jun | 23 | 21 | 391 | 388 | 494 | 355 | 256 | 326 | 261 | 326 | 411 | 420 | 54 | 9 | 343 | 366 | 408 | 281 | 53 | 317 | 301 | 302 | 275 | 359 | 202 |
| 2-8 Jun | 23 | 22 | 342 | 478 | 237 | 561 | 196 | 251 | 347 | 206 | 314 | 89 | 687 | 23 | 547 | 291 | 228 | 457 | 296 | 350 | 265 | 412 | 256 | 406 | 168 |
| 9-15 Jun | 23 | 23 | 285 | 527 | 314 | 573 | 150 | 391 | 279 | 271 | 240 | 67 | 238 | 17 | 422 | 280 | 323 | 512 | 368 | 389 | 173 | 368 | 153 | 381 | 202 |
| 16-22 Jun | 23 | 24 | 198 | 445 | 102 | 365 | 95 | 343 | 181 | 255 | 214 | 58 | 267 | 31 | 273 | 530 | 119 | 312 | 319 | 250 | 73 | 298 | 164 | 255 | 176 |
| 23-29 Jun | 23 | 25 | 215 | 448 | 98 | 327 | 101 | 293 | 170 | 268 | 233 | 32 | 232 | 99 | 288 | 475 | 120 | 476 | 633 | 340 | 51 | 347 | 286 | 185 | 168 |
| 30 Jun-5 Jul | 23 | 26 | 201 | 210 | 138 | 363 | 115 | 220 | 172 | 210 | 267 | 39 | 554 | 112 | 182 | 341 | 183 | 540 | 512 | 473 | 84 | 339 | 519 | 112 | 101 |
| 6-12 Jul | 23 | 27 | 85 | 115 | 184 | 322 | 95 | 165 | 85 | 117 | 163 | 26 | 127 | 29 | 90 | 238 | 202 | 411 | 128 | 420 | 50 | 201 | 306 | 24 | 50 |
| 13-19 Jul | 23 | 28 | 109 | 126 | 243 | 332 | 105 | 146 | 250 | 114 | 178 | 26 | 413 | 13 | 91 | 198 | 238 | 70 | 242 | 313 | 106 | 271 | 337 | 69 | 49 |
| 20-26 Jul | 23 | 29 | 84 | 94 | 153 | 247 | 143 | 115 | 299 | 81 | 128 | 23 | 247 | 16 | 125 | 67 | 152 | 53 | 324 | 246 | 103 | 242 | 227 | 65 | 35 |
| 27 Jul-2 Aug | 23 | 30 | 49 | 95 | 94 | 157 | 124 | 113 | 329 | 67 | 86 | 24 | 204 | 24 | 156 | 42 | 130 | 44 | 328 | 160 | 95 | 250 | 160 | 58 | 32 |
| 3-9 Aug | 23 | 31 | 59 | 128 | 142 | 129 | 197 | 116 | 306 | 65 | 82 | 26 | 215 | 26 | 187 | 53 | 92 | 31 | 208 | 209 | 86 | 269 | 87 | 61 | 33 |
| 10-16 Aug | 23 | 32 | 40 | 77 | 115 | 81 | 183 | 163 | 223 | 72 | 45 | 29 | 182 | 42 | 163 | 43 | 69 | 26 | 103 | 422 | 72 | 276 | 74 | 69 | 41 |
| 17-23 Aug | 23 | 33 | 47 | 48 | 81 | 67 | 125 | 173 | 160 | 82 | 63 | 23 | 186 | 60 | 128 | 53 | 56 | 25 | 61 | 471 | 84 | 204 | 215 | 80 | 52 |
| 24-30 Aug | 23 | 34 | 51 | 45 | 70 | 52 | 123 | 123 | 142 | 84 | 101 | 57 | 143 | 69 | 136 | 42 | 45 | 23 | 81 | 344 | 86 | 145 | 88 | 102 | 50 |
| 31 Aug-6 Sep | 23 | 35 | 52 | 42 | 117 | 35 | 71 | 64 | 82 | 72 | 127 | 65 | 77 | 64 | 138 | 65 | 40 | 19 | 111 | 162 | 73 | 102 | 76 | 110 | 135 |
| 7-13 Sep | 23 | 36 | 56 | 32 | 67 | 24 | 56 | 54 | 68 | 62 | 114 | 24 | 43 | 28 | 97 | 60 | 35 | 18 | 112 | 76 | 113 | 85 | 71 | 143 | 25 |
| 14-20 Sep | 23 | 37 | 63 | 27 | 45 | 19 | 57 | 42 | 56 | 63 | 100 | 20 | 35 | 28 | 81 | 46 | 35 | 39 | 169 | 46 | 18 | 54 | 56 | 169 | 21 |
| 21-27 Sep | 23 | 38 | 60 | 30 | 27 | 15 | 54 | 40 | 38 | 53 | 52 | 20 | 26 | 28 | 97 | 36 | 26 | 41 | 123 | 38 | 22 | 30 | 74 | 124 | 23 |
| 28 Sep-4 Oct | 23 | 39 | 46 | 25 | 26 | 11 | 42 | 34 | 34 | 40 | 40 | 19 | 22 | 53 | 81 | 29 | 29 | 37 | 57 | 29 | 19 | 25 | 28 | 80 | 32 |
| 5-11 Oct | 23 | 40 | 37 | 22 | 28 | 11 | 37 | 33 | 30 | 34 | 37 | 13 | 14 | 48 | 63 | 30 | 70 | 24 | 22 | 15 | 30 | 19 | 21 | 59 | 33 |
| 12-18 Oct | 23 | 41 | 31 | 20 | 30 | 10 | 45 | 39 | 29 | 30 | 44 | 15 | 14 | 23 | 73 | 61 | 36 | 19 | 13 | 18 | 22 | 16 | 24 | 54 | 35 |
| 19-25 Oct | 23 | 42 | 38 | 17 | 24 | 12 | 81 | 44 | 25 | 27 | 49 | 15 | 23 | 15 | 39 | 60 | 46 | 20 | 11 | 13 | 21 | 19 | 21 | 43 | 43 |

Appendix 2. Z scores x100 of weekly mortalities for 6 age classes in 23 countries (columns, numbered as in appendix 1), data from euromomo.eu, accessed 28X2021 for 42 weeks, rows.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0-14 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 1 | -39 | -140 | -141 | 81 | -128 | 23 | -163 | 22 | -35 | -129 | 78 | -181 | 87 | 48 | -106 | -81 | -76 | -132 | -29 | 65 | -163 | 119 | 104 |
| 2 | -77 | -171 | 98 | -32 | -128 | -73 | -117 | -75 | -147 | 54 | 185 | -74 | -59 | 221 | -106 | -82 | -76 | 143 | 97 | 15 | 9 | 181 | 37 |
| 3 | -39 | -83 | -141 | -95 | -128 | 23 | -198 | -64 | -34 | -128 | 107 | -99 | -101 | 48 | 56 | -82 | -2 | -91 | -147 | 97 | 143 | -101 | 291 |
| 4 | -77 | 64 | -141 | 26 | -23 | -22 | -117 | 115 | 65 | 21 | 83 | 62 | -16 | -28 | -106 | -82 | -3 | -91 | -30 | -1 | -113 | -20 | 188 |
| 5 | 65 | -57 | -141 | 108 | 39 | -73 | -307 | -108 | -13 | 86 | 88 | 41 | -14 | 49 | -106 | -135 | -38 | 17 | 39 | 160 | 144 | 120 | 20 |
| 6 | -2 | -57 | 97 | -62 | -21 | 65 | -117 | -212 | 139 | 147 | 148 | 42 | 26 | -157 | -106 | 106 | -78 | -53 | -30 | 130 | 46 | -19 | 84 |
| 7 | -77 | -83 | -141 | -94 | -20 | -72 | -175 | -86 | -55 | 87 | 91 | 42 | -94 | -27 | -105 | 128 | -125 | -91 | 39 | 34 | 11 | -100 | 229 |
| 8 | 32 | -171 | -141 | -62 | -18 | 66 | -163 | -53 | -99 | -11 | 92 | -25 | -92 | -27 | 57 | 106 | -78 | -225 | 39 | 17 | 113 | 18 | 63 |
| 9 | 65 | -83 | 97 | 184 | 196 | -72 | -29 | 184 | 66 | -220 | 90 | -2 | -45 | 113 | 57 | -32 | -208 | 17 | -146 | 67 | 11 | 183 | 169 |
| 10 | -39 | -140 | -141 | 82 | 54 | -132 | -40 | -119 | 8 | -126 | 92 | -72 | -88 | -27 | 57 | -163 | 149 | -17 | 39 | 51 | -26 | -57 | 13 |
| 11 | -39 | -6 | 8 | -62 | -9 | -72 | -198 | 1 | 67 | 89 | 89 | 239 | -137 | -156 | -105 | 38 | 152 | -176 | 39 | 100 | -26 | 121 | 107 |
| 12 | 32 | -83 | -141 | 27 | -122 | -21 | 87 | -96 | -222 | -46 | 111 | 43 | 84 | -26 | -105 | 15 | -36 | -17 | 39 | 132 | -26 | 121 | 35 |
| 13 | -2 | -57 | 95 | -31 | -121 | -21 | -73 | 44 | 9 | 58 | 91 | 21 | -134 | -156 | 57 | 83 | -128 | -53 | 39 | 84 | -25 | 89 | 273 |
| 14 | -77 | -170 | 95 | 109 | 73 | 25 | -163 | -152 | 67 | -45 | 90 | 21 | -196 | -26 | 57 | -135 | -128 | -53 | -30 | 69 | 83 | 55 | -53 |
| 15 | -162 | -140 | 7 | 28 | 6 | 25 | -51 | -52 | -53 | 151 | 89 | 126 | 169 | 50 | -105 | 15 | 8 | -176 | 39 | -104 | 13 | 89 | 151 |
| 16 | -38 | -6 | -143 | 55 | -115 | -234 | -73 | -74 | -11 | -83 | 113 | 44 | -194 | 114 | 57 | 14 | 11 | 112 | -30 | 3 | 14 | -98 | -45 |
| 17 | 65 | 107 | -143 | 109 | -113 | -71 | 55 | -19 | -97 | -44 | 113 | 65 | -23 | -26 | -104 | -33 | 14 | -225 | -30 | 37 | 117 | -194 | 207 |
| 18 | 65 | 129 | 93 | -30 | -111 | -131 | -84 | 23 | -143 | 60 | 85 | 44 | 106 | -26 | -104 | -9 | -24 | -53 | -30 | 102 | 50 | 215 | 14 |
| 19 | -2 | -6 | -143 | 56 | 22 | -20 | -222 | 2 | 123 | -81 | 85 | 203 | 27 | -155 | -104 | 14 | -22 | 17 | 38 | 195 | 15 | 56 | 80 |
| 20 | -117 | 63 | -143 | 83 | -106 | -130 | -319 | 105 | -31 | 92 | 89 | 107 | 29 | -155 | 58 | -84 | 22 | 17 | -30 | 134 | 118 | 215 | 210 |
| 21 | -117 | 63 | 5 | -61 | -104 | 26 | -175 | 13 | -31 | 61 | 88 | 66 | -65 | 51 | 58 | -221 | -63 | -225 | -146 | 103 | -22 | 123 | 155 |
| 22 | -38 | 17 | -143 | -161 | -102 | 67 | -30 | 125 | -30 | 93 | 95 | -94 | -14 | 115 | -104 | 59 | -61 | -17 | -146 | -12 | 150 | -15 | 266 |
| 23 | -117 | -6 | 5 | 28 | 114 | 106 | -107 | -84 | 30 | 93 | 88 | -45 | 33 | -25 | -104 | -59 | 69 | -131 | 38 | 71 | 52 | 22 | 269 |
| 24 | -38 | -6 | 92 | -30 | 37 | -19 | 146 | 34 | 11 | 29 | 88 | 87 | -183 | -154 | -104 | -84 | 33 | 111 | -46 | 5 | 17 | -141 | 11 |
| 25 | -2 | 63 | -144 | -60 | 186 | -69 | -107 | 126 | 31 | -79 | 91 | 166 | -12 | -25 | -104 | -84 | 143 | -131 | -30 | 270 | 53 | 58 | -67 |
| 26 | -38 | 107 | 4 | 135 | 120 | -19 | 74 | 24 | -30 | 155 | 86 | -21 | 116 | 52 | 154 | 103 | 111 | -91 | -146 | 72 | -105 | 23 | 92 |
| 27 | 97 | 149 | 164 | 135 | 189 | 26 | -130 | -40 | -29 | -40 | 91 | 2 | 33 | -154 | 59 | -59 | 77 | -91 | 38 | 212 | 182 | 23 | 101 |
| 28 | 128 | -56 | 91 | -29 | 123 | 68 | -52 | -8 | -9 | -78 | 92 | 88 | 32 | 52 | 59 | -110 | -105 | -91 | -30 | 152 | -20 | 23 | 326 |
| 29 | -161 | 41 | 4 | 84 | -94 | -69 | 53 | -40 | 143 | 294 | 94 | 46 | -294 | 52 | 59 | -84 | 41 | -91 | -30 | 57 | 54 | 92 | -5 |
| 30 | -76 | -6 | 3 | 161 | -94 | -18 | 33 | -18 | -29 | 156 | 85 | -20 | 112 | 116 | -103 | 12 | 0 | 197 | -146 | 271 | 88 | 23 | 86 |
| 31 | -116 | -56 | -144 | 136 | -94 | -18 | 94 | 136 | -50 | -77 | 97 | 46 | -65 | 52 | 59 | -11 | 43 | -91 | -30 | 90 | 19 | -191 | 41 |
| 32 | 128 | -110 | 3 | 29 | 41 | -18 | 94 | 3 | 89 | 32 | -66 | 47 | -67 | 116 | 96 | 35 | -46 | -283 | 38 | 122 | 19 | -57 | 150 |
| 33 | 0 | 17 | 3 | 29 | -96 | -128 | -53 | 34 | 13 | 7 | 95 | -67 | -188 | 173 | -85 | -318 | -45 | -53 | -30 | 272 | 154 | -80 | 141 |
| 34 | -1 | -110 | 3 | 57 | -97 | -128 | -210 | 3 | -28 | 33 | -93 | 47 | -22 | -20 | 90 | 79 | -46 | 49 | -30 | 243 | 185 | -4 | 132 |
| 35 | 97 | -83 | 2 | 1 | 36 | 27 | -42 | 55 | -71 | -36 | -114 | 112 | 62 | 45 | -85 | 34 | 1 | -91 | 94 | 199 | 90 | -55 | -101 |
| 36 | -37 | -31 | 2 | 1 | 34 | -17 | -141 | 24 | 179 | 66 | 94 | 54 | 99 | 117 | -84 | -60 | -35 | -53 | -30 | 59 | -75 | 132 | 119 |
| 37 | -268 | -83 | 2 | 30 | 175 | -77 | 42 | -35 | 33 | -54 | 86 | -12 | -30 | 45 | 90 | -12 | 0 | -18 | -12 | 244 | 91 | 66 | 125 |
| 38 | 74 | -19 | -145 | 84 | -104 | -48 | -64 | 64 | 162 | 135 | 101 | 51 | 53 | 44 | -83 | -111 | -35 | -53 | -11 | 108 | 155 | 147 | 218 |
| 39 | -21 | -69 | 2 | 30 | 102 | -46 | -32 | -52 | 53 | 4 | 100 | 79 | 9 | -21 | 79 | 239 | 40 | -87 | -9 | 248 | 92 | 120 | 231 |
| 40 | -94 | -63 | 160 | 129 | 2 | -10 | -11 | 62 | 53 | 44 | 98 | 80 | 6 | 226 | 66 | 0 | -62 | -53 | -145 | 199 | -48 | 0 | 214 |
| 41 | -19 | 85 | -146 | 8 | 93 | -33 | -130 | -81 | -189 | 53 | -191 | 190 | 157 | 47 | -92 | -93 | -39 | 16 | 39 | 150 | 69 | 18 | 231 |
| 42 | 15 | 38 | -146 | 1 | 89 | -23 | -246 | -50 | -48 | 295 | -226 | -39 | -112 | 45 | -101 | -53 | -34 | -3 | -145 | 101 | 91 | -2 | 4 |
| 15-44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 21 | -147 | -5 | -57 | 188 | -49 | 120 | -11 | -17 | 212 | 111 | -18 | 157 | 29 | -162 | -5 | -160 | 71 | 56 | 95 | -93 | -123 | 568 |
| 2 | -9 | 17 | 91 | -38 | 44 | 29 | 5 | 103 | 24 | -42 | 1 | -46 | 199 | 200 | -41 | -89 | -103 | 319 | 27 | 169 | -28 | 107 | 448 |
| 3 | 91 | 7 | -127 | 19 | 76 | 41 | 101 | 84 | 38 | 68 | -77 | -271 | 80 | 96 | -161 | 30 | -107 | 246 | -35 | 247 | 79 | 125 | 532 |
| 4 | 47 | 114 | 90 | -3 | 14 | -33 | -61 | 96 | 191 | -27 | 171 | -23 | 220 | 205 | -41 | -77 | -125 | 245 | 216 | 43 | 47 | -20 | 485 |
| 5 | 46 | 63 | 43 | 32 | 191 | -20 | -168 | 216 | 25 | 205 | 18 | 51 | 238 | -38 | -40 | 18 | -100 | 171 | 56 | 37 | 30 | 225 | 321 |
| 6 | 154 | 31 | 42 | 84 | 137 | -60 | -209 | -22 | -57 | 69 | 120 | 15 | 36 | -37 | -161 | 6 | -131 | 35 | 27 | 112 | 103 | 125 | 135 |
| 7 | 151 | 86 | -65 | -155 | -129 | -21 | 57 | -52 | 51 | 183 | 48 | -20 | -34 | 101 | -40 | 29 | -275 | -101 | 26 | 99 | -102 | -22 | 308 |
| 8 | -6 | -58 | -247 | 23 | 48 | -146 | -188 | 58 | 128 | 113 | -2 | 9 | 342 | 38 | 145 | -89 | -212 | -63 | 25 | 78 | 9 | 156 | -14 |
| 9 | 90 | -12 | 36 | -39 | 16 | 16 | -53 | 203 | -47 | 52 | -113 | -79 | 211 | -38 | 146 | -65 | -247 | 106 | -39 | 173 | -57 | -27 | -41 |
| 10 | -30 | 56 | 34 | 15 | 16 | -50 | -99 | 101 | -63 | 478 | -111 | -48 | 168 | 100 | 32 | -6 | -233 | -77 | -75 | 160 | 4 | -176 | 110 |
| 11 | -65 | 121 | 120 | 85 | 48 | -152 | -33 | 118 | 33 | 363 | -41 | 187 | 221 | -41 | 32 | -30 | -171 | -117 | 52 | 160 | -63 | 61 | -203 |
| 12 | -150 | 0 | -23 | 117 | 15 | -54 | 83 | 7 | 3 | 675 | 145 | -183 | 216 | -43 | 32 | -90 | -172 | -77 | 20 | -67 | -49 | 93 | 128 |
| 13 | -30 | 155 | 24 | -117 | 79 | 88 | 32 | 149 | 214 | 665 | 3 | -163 | 27 | -46 | -168 | 28 | -205 | -51 | -14 | 194 | 151 | 160 | 4 |
| 14 | -82 | -1 | -31 | -40 | 278 | -30 | 52 | 176 | 187 | 441 | -26 | -96 | 125 | 149 | 203 | 96 | -171 | 1 | -121 | -57 | 27 | -28 | 174 |
| 15 | 63 | -49 | 64 | -4 | -58 | -60 | 33 | 155 | 133 | 448 | -40 | 43 | 157 | -52 | 33 | 5 | -75 | -51 | 186 | 80 | -57 | -14 | 182 |
| 16 | -126 | 179 | 13 | 105 | 78 | -62 | 97 | 306 | -52 | 270 | -71 | 9 | 149 | 21 | 154 | 5 | -202 | -161 | 158 | 21 | -10 | 38 | -72 |
| 17 | 123 | 201 | -43 | -113 | -24 | -124 | -98 | 161 | 181 | 309 | -62 | 354 | 199 | 17 | -43 | -19 | -114 | -333 | 71 | -41 | 5 | 33 | -25 |
| 18 | -348 | 125 | -104 | 25 | 167 | -39 | 52 | 431 | 125 | 359 | -59 | -19 | 93 | 76 | -43 | 73 | -143 | 68 | 69 | 126 | 3 | 205 | -29 |
| 19 | 99 | -39 | 48 | 78 | 222 | -55 | -151 | 195 | 11 | -152 | -124 | -139 | 43 | -67 | 34 | 61 | 7 | 43 | 66 | 73 | 2 | -36 | -32 |
| 20 | -23 | -65 | -3 | -187 | 105 | -86 | -111 | 218 | 64 | -15 | -66 | 74 | 154 | 67 | -43 | 50 | -33 | -8 | 150 | 71 | -119 | -21 | 20 |
| 21 | 18 | 43 | -114 | 18 | 103 | -32 | 65 | 58 | 47 | 90 | -22 | 52 | 88 | -75 | -43 | -79 | -161 | 58 | 62 | -102 | -84 | 48 | -89 |
| 22 | -46 | 88 | 37 | -102 | 246 | -90 | 34 | 200 | -12 | 11 | -53 | -83 | 80 | -204 | -43 | 83 | -4 | -19 | 198 | 60 | -50 | -110 | -9 |
| 23 | 39 | 98 | -63 | -82 | 217 | -9 | -84 | 209 | -15 | 79 | -68 | -215 | 130 | 52 | -173 | 83 | -148 | 97 | 28 | 58 | 16 | 21 | -251 |
| 24 | 64 | 6 | 192 | -235 | 130 | -51 | 72 | 324 | 94 | 132 | -80 | 311 | 124 | 101 | -172 | 72 | -197 | 22 | -4 | 71 | 140 | -77 | 49 |
| 25 | 131 | 51 | -17 | -188 | 158 | 14 | 47 | 283 | -5 | -2 | -97 | -48 | 61 | -89 | 33 | 26 | -172 | 61 | 55 | 119 | 0 | 101 | 224 |
| 26 | -11 | 118 | 111 | -164 | 213 | 25 | -44 | 137 | 62 | -42 | -34 | 239 | 95 | -21 | -43 | -79 | 21 | -138 | 53 | 153 | -32 | 28 | 112 |
| 27 | 3 | 117 | 109 | -141 | 212 | -170 | 41 | 62 | -8 | 109 | -132 | -24 | 146 | -24 | -43 | 71 | -259 | 100 | 238 | 221 | 229 | -47 | 187 |
| 28 | 86 | 181 | -20 | -205 | 97 | -111 | 173 | 326 | 139 | 60 | -68 | -6 | -90 | -27 | -171 | 26 | -33 | 113 | -225 | 206 | -166 | -125 | 277 |
| 29 | 114 | 105 | -69 | 4 | 156 | -43 | 223 | 122 | 4 | 47 | -16 | -137 | 69 | 81 | -171 | 115 | 36 | 26 | 22 | 151 | 99 | -31 | 362 |
| 30 | 4 | 137 | -19 | -32 | 127 | -5 | 9 | 96 | 72 | 46 | -57 | -20 | -28 | 79 | -43 | 48 | 71 | 162 | 107 | 212 | 71 | -208 | 428 |
| 31 | -37 | -21 | 109 | -10 | 156 | -31 | 48 | 65 | 556 | -61 | -142 | 58 | -27 | -220 | 95 | 3 | -91 | 91 | -72 | 220 | -216 | 59 | 273 |
| 32 | -6 | 93 | 111 | -46 | 98 | -157 | 180 | 244 | 216 | 173 | -52 | -38 | 198 | 25 | 32 | 3 | -144 | 140 | -143 | 117 | -53 | 172 | 324 |
| 33 | -3 | -132 | -186 | 36 | 68 | -86 | 314 | 254 | 61 | -95 | -137 | 54 | 18 | -103 | 96 | -104 | -182 | 17 | -7 | 105 | -102 | -153 | 268 |
| 34 | 44 | 127 | 261 | -122 | 4 | -114 | 124 | 20 | -50 | -110 | -94 | 66 | 155 | -28 | 96 | 125 | -35 | -22 | -5 | 56 | 2 | 23 | 181 |
| 35 | 34 | 38 | 158 | -24 | 102 | -100 | 80 | 172 | 131 | -34 | -71 | -67 | -12 | 26 | 33 | -116 | -53 | 119 | 27 | 151 | 69 | 49 | 286 |
| 36 | 81 | 84 | 39 | -60 | 163 | -62 | 80 | 176 | 172 | -33 | -138 | 277 | 132 | -23 | 38 | 36 | -46 | 95 | 115 | 132 | 135 | 59 | 440 |
| 37 | 43 | 162 | -111 | -116 | 42 | -83 | 149 | 315 | 55 | -42 | -94 | 64 | 120 | 31 | 33 | 36 | -88 | 121 | 30 | 26 | -83 | -55 | 558 |
| 38 | 1 | 141 | 0 | -112 | 76 | -43 | 99 | 287 | 57 | 144 | 60 | 67 | 33 | 33 | -50 | -10 | -83 | 84 | 62 | 144 | 63 | 45 | 188 |
| 39 | 26 | 53 | 3 | 16 | 109 | -74 | 199 | 182 | -143 | 67 | -98 | 80 | -59 | 37 | 36 | 120 | 86 | 84 | 94 | 53 | -42 | 25 | 436 |
| 40 | 108 | 116 | 54 | -9 | 277 | -5 | -35 | 64 | 21 | 219 | -105 | -31 | 197 | 17 | -79 | 39 | -150 | 59 | -35 | 128 | -90 | 45 | 379 |
| 41 | -48 | 55 | 102 | 176 | 122 | -154 | -80 | 130 | -137 | -150 | -60 | 7 | 22 | 3 | -119 | -140 | -175 | -82 | 53 | 250 | 46 | 98 | 295 |
| 42 | -5 | 94 | -162 | 146 | 263 | -62 | -498 | 110 | -58 | -104 | -558 | -84 | 177 | 14 | -163 | 15 | -117 | 64 | -12 | 241 | 69 | 177 | -336 |
| 45-64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | -39 | 24 | 29 | 170 | 110 | -56 | 298 | 598 | 154 | 430 | 329 | 111 | 278 | 74 | -71 | 143 | -152 | 714 | 237 | 586 | 104 | 153 | 917 |
| 2 | 94 | 37 | -97 | -3 | -23 | 70 | 50 | 630 | 97 | 137 | 364 | 113 | 341 | 52 | -102 | 96 | -31 | 940 | 212 | 696 | -55 | 231 | 1153 |
| 3 | -13 | 46 | -166 | -52 | 102 | 176 | 166 | 493 | 44 | 261 | 409 | 145 | 333 | -11 | -102 | 127 | 118 | 903 | 233 | 851 | 102 | 140 | 1096 |
| 4 | 19 | 87 | -78 | 19 | -69 | -200 | 234 | 324 | -111 | 173 | 135 | 288 | 343 | 70 | 41 | 74 | 41 | 609 | 210 | 940 | -11 | 169 | 895 |
| 5 | 52 | -38 | 78 | -58 | -26 | -18 | 191 | 408 | 8 | 298 | 291 | 253 | 139 | 10 | -70 | -47 | -78 | 530 | 233 | 730 | -27 | -3 | 707 |
| 6 | 122 | -168 | -78 | 77 | 90 | -40 | 307 | 369 | -68 | 52 | 314 | 186 | 218 | -56 | -39 | 54 | -59 | 307 | 15 | 402 | 65 | 151 | 644 |
| 7 | 11 | -6 | 5 | 127 | 144 | 127 | 212 | 335 | -154 | -14 | 380 | 22 | 338 | 31 | 20 | 341 | 43 | 357 | 16 | 459 | -115 | -70 | 479 |
| 8 | 55 | 16 | 7 | -127 | 40 | 39 | 157 | 54 | -54 | 374 | 6 | 142 | 310 | -55 | 23 | 76 | -37 | 108 | 125 | 336 | 18 | -100 | 244 |
| 9 | -54 | -210 | -52 | -126 | 134 | -30 | 134 | 61 | 107 | 573 | 171 | 119 | 330 | -9 | 181 | 162 | -217 | 95 | 163 | 138 | -83 | 0 | 121 |
| 10 | 61 | -48 | -71 | 10 | 398 | 31 | 165 | 180 | 203 | 1014 | -8 | -51 | 91 | 136 | 86 | 172 | -22 | -141 | 95 | 62 | 148 | 77 | 38 |
| 11 | 140 | 38 | -23 | 92 | -7 | 61 | 196 | -49 | -50 | 1268 | -1 | 56 | 305 | 100 | -23 | 147 | -75 | 104 | 147 | -27 | 132 | -77 | 30 |
| 12 | 38 | -50 | 3 | -66 | 119 | -51 | 219 | 166 | 169 | 1436 | 24 | -7 | 406 | 82 | 13 | 66 | 3 | -15 | 2 | 208 | 130 | -29 | -152 |
| 13 | 120 | 407 | 73 | 27 | 242 | 39 | 278 | 249 | 116 | 1536 | 162 | -124 | 368 | -127 | 49 | 136 | -76 | -29 | 70 | 65 | 98 | -159 | -161 |
| 14 | 68 | 317 | 101 | -108 | 175 | -112 | 275 | 253 | 207 | 1387 | 2 | -25 | 309 | 23 | -7 | 312 | -90 | 66 | -228 | 43 | 33 | 96 | -119 |
| 15 | 122 | 230 | 248 | -50 | 346 | -90 | 380 | 441 | 301 | 983 | 184 | 17 | 319 | -97 | 92 | 300 | 85 | -112 | 104 | 30 | 163 | 50 | -93 |
| 16 | 187 | 117 | 117 | -102 | 83 | 124 | 504 | 525 | 321 | 817 | 66 | 18 | 226 | 52 | 5 | 375 | -84 | -55 | 146 | 122 | 184 | 128 | -137 |
| 17 | 124 | 169 | 38 | 95 | 238 | -26 | 401 | 642 | 200 | 542 | -24 | -84 | 370 | 9 | 11 | 315 | -62 | -27 | 62 | 226 | 181 | 97 | -124 |
| 18 | 4 | 411 | -1 | -8 | 40 | -4 | 389 | 614 | 166 | 514 | 86 | 13 | 118 | -38 | -133 | 161 | -68 | -14 | -14 | 114 | 278 | -98 | -96 |
| 19 | 84 | 94 | 30 | -13 | 211 | 250 | 195 | 235 | 212 | 109 | -34 | 174 | 79 | -117 | -48 | 562 | 43 | 19 | 71 | -38 | 163 | 112 | -16 |
| 20 | -216 | 70 | -88 | 6 | 163 | 85 | 293 | 334 | 61 | 70 | -43 | -65 | 136 | 109 | 28 | 220 | -26 | -219 | 88 | 1 | 283 | -83 | -116 |
| 21 | 31 | -32 | -29 | -14 | 194 | -100 | 190 | 174 | 144 | -13 | -42 | -194 | 178 | 44 | -38 | 215 | -135 | 169 | 145 | -60 | 107 | 23 | 33 |
| 22 | 146 | 187 | -49 | 43 | 29 | 5 | 75 | 273 | 22 | 177 | -146 | -74 | 30 | -54 | -73 | 293 | -67 | 130 | -25 | 128 | 106 | 6 | -42 |
| 23 | -47 | 27 | -43 | 77 | 118 | -92 | 174 | 284 | 42 | 118 | -77 | 50 | -111 | 24 | 109 | 156 | -56 | -144 | -78 | -6 | 3 | 12 | 3 |
| 24 | -46 | 139 | 107 | -54 | -26 | 2 | -22 | 455 | -63 | -14 | -166 | 13 | 47 | -50 | 288 | 194 | -55 | 120 | 77 | -83 | -70 | -46 | -12 |
| 25 | 40 | -83 | 42 | 42 | 334 | 101 | -88 | 161 | 151 | 67 | -57 | 46 | 138 | 52 | -62 | 164 | -27 | 44 | 184 | 79 | 77 | -6 | 23 |
| 26 | 70 | 136 | 21 | -58 | 6 | 102 | 37 | 219 | 410 | 34 | 0 | -54 | 119 | 30 | 149 | 285 | 26 | 73 | 70 | 32 | 223 | -40 | 31 |
| 27 | -13 | 94 | 25 | -187 | 107 | 188 | -92 | 151 | 83 | 92 | -86 | 4 | -67 | -72 | 119 | 197 | -19 | -75 | -9 | 19 | 78 | 7 | 171 |
| 28 | -80 | 38 | -76 | -9 | 133 | 222 | 12 | 262 | -5 | 3 | -59 | -214 | -37 | 32 | 54 | 198 | -29 | 163 | 166 | 32 | 19 | -75 | 80 |
| 29 | 84 | 118 | 29 | 84 | 18 | 95 | 93 | 255 | 33 | -113 | -101 | -88 | 7 | -159 | -57 | 6 | 22 | -101 | 9 | 165 | 179 | -141 | 449 |
| 30 | -116 | -106 | 274 | 159 | 1 | -1 | 33 | 123 | 126 | 69 | -141 | -23 | 104 | 9 | 296 | 102 | -87 | 33 | 24 | 105 | 127 | -193 | 331 |
| 31 | -35 | -61 | 274 | 30 | 180 | 94 | 5 | 182 | 720 | -137 | -207 | 57 | 92 | -159 | 399 | 196 | -146 | 60 | -59 | 335 | 17 | -111 | 215 |
| 32 | 7 | 108 | 274 | -1 | 9 | 5 | 228 | 105 | 193 | 77 | -92 | 100 | 80 | -43 | 209 | 171 | 13 | 143 | -102 | 240 | -56 | 164 | 252 |
| 33 | 305 | -120 | 76 | -49 | 34 | 117 | 251 | 110 | 70 | 115 | -123 | 20 | -45 | -71 | 49 | 234 | 27 | -4 | -44 | 412 | 37 | 134 | 250 |
| 34 | -110 | 81 | -25 | -75 | 100 | 224 | 224 | 155 | 196 | -65 | -190 | 231 | -23 | -45 | 11 | 236 | -157 | -13 | -2 | 66 | 37 | 39 | 203 |
| 35 | 38 | 223 | 23 | -100 | 150 | 86 | 91 | 216 | 214 | -81 | -80 | 300 | 82 | -67 | 109 | 252 | -8 | -5 | 92 | 229 | -88 | 129 | 352 |
| 36 | -36 | 45 | -32 | -27 | 62 | 42 | 381 | 220 | 83 | 27 | -217 | 147 | 151 | 156 | -56 | 235 | -67 | -50 | 51 | 148 | 107 | 21 | 411 |
| 37 | 43 | 14 | 14 | 2 | 84 | -114 | -155 | 209 | 196 | -25 | -115 | 223 | 232 | -23 | -60 | 157 | 57 | -218 | 73 | 156 | 18 | -27 | 250 |
| 38 | 84 | 9 | 9 | 82 | 146 | -73 | 32 | 211 | 118 | 34 | -55 | 229 | -4 | -52 | -62 | 265 | 140 | 14 | 166 | -28 | 66 | 50 | 424 |
| 39 | 119 | 32 | -47 | 133 | 56 | 61 | 218 | 83 | 43 | -13 | -32 | 162 | -15 | -54 | -49 | 167 | -142 | -46 | 129 | 83 | 49 | 6 | 108 |
| 40 | -69 | 173 | 45 | 158 | 111 | -16 | 219 | 198 | 32 | -51 | -150 | 161 | 42 | 67 | 182 | 194 | -5 | 24 | 145 | -14 | 87 | -64 | 360 |
| 41 | -35 | 291 | -34 | 83 | 344 | 111 | 241 | 208 | 132 | -109 | -146 | 110 | 124 | -30 | 28 | 346 | -54 | -15 | 130 | -45 | -20 | 157 | 220 |
| 42 | -38 | 186 | -298 | 67 | 166 | -59 | -541 | 155 | -45 | -235 | -707 | 138 | -145 | 26 | -85 | 114 | -74 | -141 | 90 | 297 | 19 | 27 | -239 |
| 65-74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 206 | 79 | 17 | 105 | 171 | -224 | 242 | 731 | -43 | 281 | 21 | 413 | 390 | 132 | 143 | 327 | -100 | 891 | 200 | 426 | 123 | 282 | 1036 |
| 2 | 307 | -49 | -224 | 234 | 247 | 158 | 364 | 784 | -17 | 456 | 267 | 272 | 489 | -143 | 38 | 204 | 49 | 1018 | 148 | 762 | 217 | 198 | 1231 |
| 3 | 321 | 110 | -151 | 182 | 236 | -34 | 349 | 752 | 93 | 321 | 422 | 468 | 362 | -41 | 118 | 148 | 106 | 1235 | 275 | 1039 | 305 | 56 | 1168 |
| 4 | 113 | 95 | 142 | 264 | 96 | 175 | 374 | 663 | 37 | 170 | 167 | 207 | 466 | -88 | 55 | 283 | 93 | 1345 | 168 | 984 | 8 | 137 | 989 |
| 5 | 97 | 8 | 11 | 157 | 107 | 75 | 366 | 516 | 12 | 160 | 208 | 361 | 426 | 75 | -11 | 235 | -30 | 992 | 188 | 940 | -41 | 97 | 663 |
| 6 | 24 | -49 | -101 | 63 | 159 | -223 | 285 | 442 | -40 | 278 | 148 | 339 | 248 | 57 | 30 | 235 | -119 | 673 | -70 | 754 | -65 | -83 | 501 |
| 7 | 86 | 42 | -171 | -51 | 5 | 127 | 524 | 411 | 26 | 317 | 144 | 213 | 493 | 125 | 186 | 237 | -118 | 313 | 0 | 500 | 55 | -112 | 432 |
| 8 | -41 | 23 | 45 | -356 | 296 | -5 | 180 | 244 | 48 | 475 | 46 | 124 | 263 | -130 | 48 | -42 | -85 | 280 | 88 | 478 | -82 | 34 | 63 |
| 9 | 74 | -27 | -15 | -122 | 273 | 4 | 235 | 200 | 117 | 687 | 3 | 122 | 391 | 26 | 128 | 40 | -123 | 236 | 29 | 279 | 133 | -80 | -15 |
| 10 | 183 | -30 | 52 | 105 | 270 | -28 | 383 | 286 | 71 | 1015 | -140 | 103 | 509 | 101 | 88 | 118 | 35 | 147 | 54 | 247 | -72 | 94 | -15 |
| 11 | 158 | 12 | -9 | -41 | 318 | 51 | 514 | 305 | 218 | 1340 | -143 | 28 | 573 | 297 | 261 | 95 | -39 | 11 | -37 | 69 | -47 | 39 | -198 |
| 12 | 236 | 80 | -166 | -86 | 317 | 42 | 366 | 313 | 161 | 1741 | -27 | 147 | 544 | -31 | 168 | 55 | 203 | -152 | 87 | 177 | 19 | -162 | -245 |
| 13 | 133 | 199 | 33 | -89 | 387 | 2 | 561 | 317 | 248 | 1814 | -115 | 162 | 611 | 101 | -95 | 205 | -99 | -93 | 246 | 23 | -88 | 30 | -244 |
| 14 | 139 | 319 | -48 | -78 | 283 | 113 | 555 | 547 | 272 | 1556 | -43 | 253 | 765 | 59 | -122 | 184 | -80 | 65 | 83 | 108 | 38 | -34 | -242 |
| 15 | 166 | 222 | -8 | -100 | 314 | -207 | 521 | 647 | 276 | 1050 | -146 | 25 | 531 | 67 | 1 | 357 | -40 | 12 | 29 | 194 | -39 | -19 | -150 |
| 16 | 299 | 335 | 15 | 19 | 366 | -58 | 832 | 752 | 184 | 735 | -162 | 7 | 621 | -94 | -123 | 196 | -127 | -76 | 283 | 111 | 75 | 38 | -122 |
| 17 | 236 | 146 | -33 | -52 | 143 | -183 | 672 | 734 | 201 | 476 | 35 | -74 | 464 | 107 | -97 | 339 | 86 | 30 | 84 | 75 | 67 | -27 | -213 |
| 18 | 156 | 205 | 258 | 179 | 173 | 111 | 679 | 800 | 364 | 382 | -16 | -73 | 372 | 88 | -179 | 173 | -160 | 9 | 270 | 264 | 85 | -59 | -86 |
| 19 | 152 | 273 | 153 | -80 | 110 | 9 | 269 | 746 | 69 | 375 | -175 | -85 | 270 | -111 | 3 | 114 | -162 | -21 | 44 | 169 | 70 | -29 | -224 |
| 20 | 85 | 212 | -178 | 53 | 152 | 7 | 178 | 678 | 198 | 205 | -78 | 23 | 298 | 176 | 28 | 246 | -50 | -149 | 153 | -16 | 4 | 63 | -134 |
| 21 | -49 | 85 | -90 | -147 | 49 | -203 | 27 | 468 | 2 | 207 | 8 | -53 | 325 | -69 | 6 | 16 | -6 | 59 | 168 | 76 | -149 | 51 | -230 |
| 22 | 261 | -56 | 83 | -254 | 92 | -133 | 100 | 620 | -10 | 241 | -124 | -38 | 133 | -3 | -66 | 239 | -43 | -206 | 100 | -58 | -71 | 60 | -68 |
| 23 | 231 | -42 | 173 | -101 | 133 | -52 | 110 | 455 | -13 | 227 | -34 | -23 | 248 | 138 | -144 | 50 | 72 | -50 | 174 | 76 | 183 | -58 | -159 |
| 24 | 153 | 80 | -204 | -186 | 39 | -204 | 76 | 733 | -31 | 152 | -246 | -88 | 183 | -91 | 35 | -20 | -99 | 100 | 166 | 99 | -84 | 74 | -124 |
| 25 | 278 | -38 | -73 | -87 | 245 | 35 | -218 | 340 | 194 | 319 | -255 | -74 | 294 | -25 | -197 | -25 | 11 | -129 | 32 | -65 | -27 | -3 | -87 |
| 26 | 164 | -3 | -132 | -16 | 202 | -20 | -256 | 400 | 225 | 200 | -133 | 18 | -52 | 64 | 148 | -1 | 73 | 11 | 0 | 16 | 124 | -40 | 85 |
| 27 | -52 | -48 | -194 | -243 | 306 | -12 | 126 | 517 | 57 | 192 | -119 | -49 | 20 | 145 | 63 | 29 | 162 | -20 | 43 | -25 | -230 | -29 | -13 |
| 28 | 83 | 89 | 265 | -78 | -53 | 110 | -119 | 633 | 22 | 253 | -151 | -74 | 149 | 220 | 193 | 46 | -58 | -122 | -22 | 73 | 36 | 125 | 99 |
| 29 | 123 | 81 | 66 | 5 | -39 | -256 | 251 | 562 | -66 | 39 | -137 | -36 | 96 | -86 | 21 | 62 | -40 | -15 | -79 | 266 | -233 | 80 | 320 |
| 30 | 14 | -72 | 281 | -147 | -39 | -209 | -30 | 480 | 74 | 302 | -284 | 193 | 296 | -157 | -101 | 159 | 20 | -19 | 199 | 184 | -53 | 46 | 143 |
| 31 | 59 | -13 | 281 | 14 | 147 | -94 | -22 | 436 | 460 | 36 | -244 | 15 | 141 | 33 | -23 | 42 | 7 | 54 | -9 | 311 | -196 | -144 | 90 |
| 32 | 168 | 65 | 134 | -112 | 145 | -162 | 209 | 478 | 98 | 73 | -144 | 206 | 168 | 1 | 95 | 24 | 29 | 77 | 19 | 423 | 34 | 55 | 232 |
| 33 | 137 | 12 | -30 | -124 | 107 | -200 | 217 | 443 | 152 | 31 | -170 | 116 | 282 | 82 | 4 | 111 | -113 | 45 | -208 | 357 | -149 | 56 | 177 |
| 34 | 153 | -144 | 42 | 69 | 92 | -154 | 273 | 379 | 155 | 28 | -237 | 274 | 147 | -102 | 220 | 56 | 191 | -8 | 29 | 194 | -133 | -42 | 185 |
| 35 | 158 | -63 | 193 | 63 | 101 | -35 | 200 | 344 | 4 | 19 | -180 | 581 | 306 | -11 | -43 | -87 | 105 | 111 | 75 | 147 | -68 | 198 | 380 |
| 36 | 231 | 144 | 140 | -68 | 109 | -238 | 231 | 664 | 0 | 107 | -217 | 94 | 57 | 146 | -17 | 255 | 20 | -191 | -80 | 213 | -16 | 86 | 396 |
| 37 | 144 | -57 | 66 | -48 | -46 | -249 | 79 | 482 | 13 | 199 | -268 | 280 | 71 | -21 | -67 | 50 | 106 | -95 | -53 | -1 | 60 | 142 | 219 |
| 38 | 132 | -105 | -170 | 33 | 147 | -136 | -15 | 477 | 45 | 156 | -279 | -9 | 80 | 83 | -136 | -106 | -51 | 82 | 115 | 12 | -18 | 112 | 108 |
| 39 | 178 | -11 | 2 | 114 | 354 | -127 | -67 | 456 | -67 | 3 | -212 | 165 | 214 | 102 | 163 | 121 | -6 | -21 | 213 | 70 | -139 | 179 | 252 |
| 40 | 268 | 67 | -60 | 54 | 152 | -201 | -70 | 397 | -49 | 64 | -261 | 130 | 113 | 268 | -43 | 143 | 111 | 100 | 97 | 179 | -75 | 118 | 147 |
| 41 | 138 | 191 | -165 | 50 | 99 | -7 | 189 | 470 | -43 | 322 | -200 | 149 | 189 | -109 | -2 | 48 | -6 | 191 | -76 | 217 | 65 | -15 | 110 |
| 42 | 85 | 41 | -279 | -29 | 192 | -177 | -647 | 425 | 114 | -472 | -420 | 137 | 13 | -32 | 53 | 8 | -14 | -82 | -230 | 141 | -28 | -1 | -533 |
| 75-84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 511 | 389 | 234 | 231 | 157 | -40 | 582 | 837 | 42 | 371 | 383 | 312 | 673 | -62 | 132 | 763 | 90 | 1046 | 474 | 845 | 536 | 749 | 967 |
| 2 | 362 | 323 | 155 | 194 | 299 | -103 | 629 | 771 | 20 | 408 | 786 | 352 | 734 | 69 | 112 | 549 | 48 | 1563 | 491 | 1295 | 342 | 556 | 1217 |
| 3 | 311 | 344 | 212 | 339 | 249 | 115 | 824 | 661 | 48 | 274 | 871 | 431 | 670 | 86 | 393 | 504 | 37 | 1847 | 364 | 1822 | 361 | 428 | 1295 |
| 4 | 382 | 326 | 110 | 113 | 26 | 13 | 782 | 395 | 49 | 157 | 856 | 420 | 574 | 69 | 139 | 393 | 73 | 1714 | 206 | 1670 | 189 | 426 | 916 |
| 5 | 334 | 249 | 17 | 168 | 1 | -15 | 891 | 188 | 6 | 129 | 535 | 307 | 466 | 34 | 106 | 490 | -139 | 1225 | 367 | 1347 | -75 | 62 | 608 |
| 6 | 256 | 20 | -25 | 27 | 132 | -42 | 758 | 109 | 4 | 221 | 449 | 272 | 334 | 174 | 187 | 369 | 54 | 916 | 257 | 919 | -56 | 147 | 326 |
| 7 | 134 | 214 | 68 | -73 | 102 | 80 | 688 | 38 | 84 | 277 | 186 | 176 | 447 | 108 | 236 | 270 | -108 | 484 | 65 | 537 | -9 | 34 | 211 |
| 8 | 88 | -8 | -67 | -124 | 150 | -102 | 664 | -168 | 125 | 383 | 117 | 69 | 288 | 2 | 129 | 275 | -281 | 278 | 126 | 478 | -75 | -18 | -150 |
| 9 | 56 | 101 | -170 | -218 | 265 | -25 | 638 | -265 | 148 | 473 | 29 | 27 | 509 | -15 | 291 | 172 | -147 | 189 | 118 | 200 | -68 | -52 | -254 |
| 10 | 139 | 207 | -124 | -39 | 257 | -110 | 563 | -320 | 59 | 712 | -96 | 107 | 403 | 154 | 344 | 183 | -140 | 4 | 213 | 229 | 6 | -19 | -232 |
| 11 | 128 | 27 | -123 | -158 | 333 | -34 | 799 | -279 | 180 | 1084 | -64 | 92 | 594 | -9 | 128 | 82 | -34 | -49 | 80 | 78 | 67 | -124 | -393 |
| 12 | 117 | 211 | 40 | 8 | 370 | -187 | 740 | -326 | 154 | 1165 | 41 | 56 | 603 | -68 | 100 | 231 | -253 | -16 | 227 | 124 | -15 | 22 | -368 |
| 13 | 338 | 215 | 30 | -130 | 358 | -215 | 983 | -169 | 241 | 1131 | 6 | -8 | 723 | -2 | 89 | 433 | -69 | 137 | 174 | 215 | 77 | -79 | -330 |
| 14 | 306 | 297 | 78 | -159 | 258 | -28 | 879 | -161 | 222 | 918 | -13 | 108 | 672 | 82 | -61 | 303 | -19 | -76 | 260 | 166 | 40 | 21 | -320 |
| 15 | 314 | 289 | 141 | -28 | 226 | 15 | 881 | -62 | 234 | 579 | 31 | -59 | 570 | -104 | -13 | 311 | -55 | -35 | 199 | 36 | 110 | -41 | -293 |
| 16 | 208 | 383 | 18 | 59 | 192 | -20 | 957 | -47 | 109 | 547 | 70 | -165 | 668 | 91 | -5 | 266 | -167 | -213 | 135 | 232 | 212 | 57 | -251 |
| 17 | 122 | 346 | 98 | -173 | -51 | 72 | 876 | 173 | 184 | 380 | -43 | -56 | 496 | 193 | -85 | 298 | -131 | -106 | 5 | 9 | 101 | 104 | -323 |
| 18 | 177 | 313 | 46 | 39 | 176 | 74 | 688 | 53 | 185 | 181 | 12 | -76 | 262 | 101 | 226 | 323 | -123 | 9 | -49 | 334 | 132 | 142 | -223 |
| 19 | 152 | 223 | -172 | -53 | 215 | 15 | 438 | -7 | -11 | 155 | 58 | 65 | 298 | 64 | 121 | 166 | -140 | -141 | 151 | 104 | 182 | 72 | -158 |
| 20 | 2 | 172 | -82 | 42 | 29 | -153 | 394 | -214 | 79 | 11 | 24 | 70 | 333 | 47 | 129 | 378 | -115 | -97 | 81 | 87 | 40 | -20 | -163 |
| 21 | -36 | 237 | 126 | 185 | 147 | 2 | 406 | -341 | 84 | 2 | -4 | 81 | 192 | -60 | 137 | 48 | -176 | -28 | 26 | 59 | 139 | -138 | -129 |
| 22 | 28 | 60 | -119 | 108 | 136 | 129 | 412 | -118 | -21 | 57 | 57 | -11 | 190 | -34 | -146 | 219 | -32 | -45 | 144 | -23 | 84 | 44 | -40 |
| 23 | 39 | 58 | -96 | 53 | 114 | -79 | 331 | -127 | -13 | 42 | -18 | -101 | 129 | -77 | 3 | 259 | -39 | 10 | 79 | 102 | 22 | -143 | -162 |
| 24 | 111 | 68 | -24 | 74 | 228 | 80 | 265 | 158 | 36 | 79 | -37 | -5 | 168 | 120 | -84 | 300 | -169 | -51 | 86 | 71 | 171 | -32 | -171 |
| 25 | 22 | 36 | 75 | -56 | 507 | 115 | 36 | -185 | 227 | 313 | -71 | -8 | 367 | 18 | 58 | 106 | -124 | -136 | 27 | 68 | 185 | 9 | -121 |
| 26 | 15 | 261 | 80 | -2 | 60 | 34 | 196 | -207 | 326 | 117 | -26 | 195 | 184 | 41 | 166 | 100 | -34 | 21 | -25 | 180 | -165 | -71 | 31 |
| 27 | -4 | 2 | 187 | 35 | 270 | 205 | 256 | -234 | 110 | 76 | 4 | -9 | 122 | -46 | 109 | 213 | 75 | 82 | -177 | 169 | 76 | -165 | 42 |
| 28 | -78 | 160 | -22 | 277 | 244 | 285 | 117 | -98 | 147 | 126 | 6 | -131 | 192 | 145 | 3 | 218 | -4 | 120 | 74 | 299 | 150 | -138 | 29 |
| 29 | 118 | 141 | 179 | 92 | -15 | 52 | 525 | -116 | 57 | -109 | 162 | 379 | 184 | 105 | 50 | 136 | 107 | 107 | -104 | 703 | 279 | 33 | 361 |
| 30 | 150 | 172 | 107 | 133 | 130 | -10 | 394 | -39 | 254 | 164 | 27 | 201 | 361 | -46 | -63 | 285 | 206 | -16 | 93 | 583 | 203 | -168 | 119 |
| 31 | 14 | 294 | 296 | 328 | 208 | 121 | 413 | -266 | 600 | -43 | -38 | 282 | 151 | 20 | 312 | 410 | 80 | 154 | -135 | 719 | 42 | -16 | 60 |
| 32 | 176 | 108 | 183 | 263 | 78 | -75 | 654 | -184 | 332 | 99 | -133 | 593 | 223 | -25 | 116 | 130 | 116 | 179 | -79 | 724 | 278 | 126 | 88 |
| 33 | 134 | 252 | 94 | 131 | 75 | 60 | 609 | -132 | 189 | -10 | -84 | 579 | 341 | -49 | 115 | 194 | 104 | 116 | -83 | 616 | 225 | 30 | 152 |
| 34 | 92 | 164 | 337 | 165 | 162 | -54 | 380 | -176 | 195 | -61 | -119 | 440 | 117 | -6 | 214 | 328 | 33 | 180 | -49 | 535 | 225 | 92 | 148 |
| 35 | 8 | 248 | 137 | 110 | 138 | -76 | 729 | -194 | 139 | 132 | -80 | 366 | 149 | -27 | 231 | 261 | 12 | 90 | 85 | 372 | 72 | 93 | 209 |
| 36 | 269 | 147 | 89 | 299 | 163 | 321 | 672 | 75 | 100 | 121 | -129 | 394 | 215 | -92 | 227 | 329 | 235 | 145 | 255 | 271 | 198 | 50 | 346 |
| 37 | 12 | 263 | 204 | 163 | 97 | 191 | 441 | 34 | 176 | 46 | -98 | 378 | 197 | -97 | 123 | 228 | 78 | -74 | 62 | 287 | 205 | -33 | 92 |
| 38 | 79 | 214 | -13 | 125 | 120 | 172 | 292 | -223 | 144 | -43 | -180 | 184 | 199 | 109 | -102 | 204 | 204 | 13 | 135 | 313 | 146 | 65 | 30 |
| 39 | 94 | 194 | 76 | 135 | 52 | 253 | 390 | -241 | 30 | -48 | -31 | 88 | 111 | 64 | 172 | 355 | 127 | 96 | 99 | 323 | 261 | -26 | 131 |
| 40 | 100 | 186 | -105 | -1 | 182 | 264 | 217 | -188 | 64 | -73 | -109 | 164 | 39 | -23 | 13 | 246 | 38 | 73 | -6 | 398 | 120 | -126 | 168 |
| 41 | 142 | 418 | -128 | 230 | 114 | 51 | 453 | -15 | 47 | -255 | -65 | 188 | 265 | 16 | 45 | 194 | -57 | 83 | 49 | 295 | 42 | 200 | -78 |
| 42 | 33 | 450 | -394 | 14 | 4 | -100 | -312 | -140 | 24 | -401 | -35 | 142 | 110 | 2 | 157 | 174 | -26 | 46 | -170 | 523 | 98 | 68 | -653 |
| 85+ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 174 | 230 | 81 | 182 | 79 | -13 | 713 | 1174 | 121 | 350 | 186 | 321 | 348 | -10 | 178 | 910 | -48 | 1234 | 307 | 549 | 457 | 656 | 967 |
| 2 | 191 | 153 | -71 | 247 | 105 | -175 | 656 | 1022 | 8 | 330 | 463 | 527 | 374 | 0 | 125 | 691 | 15 | 1763 | 385 | 955 | 490 | 477 | 1344 |
| 3 | 328 | 136 | 2 | 387 | 201 | -14 | 835 | 967 | 103 | 198 | 711 | 422 | 385 | -102 | 270 | 727 | -47 | 2045 | 256 | 1144 | 273 | 576 | 1338 |
| 4 | 237 | 69 | 36 | 188 | 191 | -84 | 630 | 678 | 113 | 183 | 757 | 486 | 431 | 106 | 132 | 547 | 124 | 1839 | 85 | 1034 | 228 | 214 | 1160 |
| 5 | 83 | -22 | 62 | 244 | 108 | -216 | 548 | 506 | 6 | 104 | 518 | 317 | 259 | -35 | 204 | 433 | -163 | 1244 | -69 | 659 | -76 | 47 | 642 |
| 6 | -70 | 66 | -155 | -11 | 149 | -161 | 466 | 325 | 2 | 74 | 363 | 150 | 84 | -165 | 142 | 321 | -102 | 822 | -198 | 324 | -43 | -13 | 372 |
| 7 | -44 | 34 | 45 | -93 | 43 | -147 | 437 | 240 | 11 | 122 | 201 | 68 | 212 | -93 | 186 | 268 | -193 | 454 | -148 | 72 | -63 | -95 | 237 |
| 8 | -74 | -100 | -39 | -104 | 302 | -27 | 250 | -71 | 74 | 207 | -101 | -144 | 78 | 27 | 302 | 13 | -91 | 162 | -42 | -131 | -169 | -99 | -132 |
| 9 | -281 | -289 | -35 | -186 | 296 | -144 | 124 | -188 | 51 | 103 | -91 | -147 | 106 | 34 | 10 | -123 | -286 | -56 | -124 | -208 | -437 | -115 | -292 |
| 10 | 37 | -125 | -124 | -198 | 199 | -179 | 68 | -73 | 31 | 348 | -110 | 161 | 107 | 117 | 45 | 108 | -147 | -178 | -152 | -295 | -99 | -160 | -260 |
| 11 | -82 | -172 | 10 | -443 | 328 | -116 | 129 | -114 | 83 | 553 | -156 | 151 | 174 | 89 | 29 | -125 | -182 | -156 | -32 | -258 | -382 | -205 | -328 |
| 12 | -146 | -186 | -55 | -167 | 109 | -195 | 98 | -43 | 73 | 587 | -201 | 64 | 380 | -48 | -5 | -136 | -266 | -195 | -233 | -243 | -209 | -83 | -381 |
| 13 | 20 | -153 | -101 | -281 | 113 | -129 | 285 | -83 | 165 | 545 | -89 | -125 | 326 | -98 | 85 | -141 | -308 | -157 | -165 | -216 | -278 | -124 | -405 |
| 14 | -156 | -196 | 115 | -178 | 244 | -142 | 302 | 48 | 87 | 467 | -164 | 87 | 240 | -59 | -18 | -62 | -87 | -337 | -183 | -209 | -151 | -140 | -372 |
| 15 | -92 | -141 | 109 | -83 | 122 | -8 | 356 | 78 | 135 | 305 | -91 | -14 | 233 | -64 | -72 | -147 | -291 | -307 | -160 | -234 | -207 | -91 | -312 |
| 16 | -81 | -101 | 92 | -51 | 110 | -65 | 384 | 153 | 70 | 189 | -131 | -77 | 211 | -39 | -69 | 22 | -35 | -233 | 13 | -207 | -204 | -172 | -291 |
| 17 | 15 | 5 | 139 | -54 | 33 | -108 | 298 | 187 | 72 | 194 | -60 | -30 | 34 | -29 | -7 | -34 | -62 | -349 | -138 | -192 | -229 | -55 | -251 |
| 18 | 110 | 82 | 144 | 104 | 138 | -33 | 226 | 235 | 169 | -13 | -19 | -43 | 27 | -83 | 36 | -103 | -254 | -124 | -135 | -170 | -63 | -192 | -222 |
| 19 | -110 | -113 | -167 | 56 | 106 | 94 | -5 | 193 | -111 | 14 | 4 | 38 | -28 | -193 | 96 | -28 | -253 | -257 | -50 | -202 | -34 | -50 | -183 |
| 20 | 1 | -92 | -114 | -41 | 91 | -36 | -93 | 30 | 1 | -24 | -202 | -15 | -76 | -48 | 8 | -122 | -51 | -269 | -48 | -207 | -185 | -143 | -214 |
| 21 | -55 | -80 | -11 | -107 | 103 | 33 | -81 | 42 | 33 | -93 | -76 | -51 | -78 | -159 | 108 | -1 | -54 | -166 | -63 | -257 | -156 | -63 | -113 |
| 22 | 41 | 61 | 27 | 65 | -30 | 19 | -126 | 332 | -137 | -50 | 8 | -109 | 41 | -99 | 0 | 109 | -161 | -230 | 171 | -192 | -146 | -75 | -95 |
| 23 | 9 | -98 | -103 | 116 | -80 | 34 | -158 | 110 | -43 | -80 | -97 | -110 | -20 | 55 | -34 | 33 | -175 | -88 | 52 | 11 | -158 | -238 | -239 |
| 24 | 113 | 4 | -78 | 63 | 28 | 75 | -10 | 567 | -119 | 35 | -152 | -174 | 47 | 76 | -9 | 33 | -112 | -78 | 61 | 147 | -165 | -32 | -209 |
| 25 | 197 | -194 | -69 | 61 | 206 | 85 | -305 | 215 | 348 | 345 | -90 | 228 | 182 | -48 | -4 | -158 | -133 | -150 | 6 | -143 | -157 | -107 | -236 |
| 26 | -58 | -102 | 299 | 291 | 138 | 22 | -214 | 156 | 396 | 66 | -3 | -100 | 152 | 84 | 187 | 61 | -178 | -64 | 159 | -21 | 14 | -31 | -58 |
| 27 | -37 | -92 | 101 | -1 | 289 | 170 | -95 | 180 | 202 | 3 | -152 | 174 | 55 | 39 | -119 | 85 | 59 | -58 | -36 | 33 | 133 | -35 | 96 |
| 28 | -39 | -69 | 269 | 170 | 128 | 223 | -110 | 324 | 223 | 107 | -5 | -28 | -13 | -7 | 106 | 169 | -65 | 118 | -199 | -12 | 173 | -45 | 89 |
| 29 | 68 | 175 | 285 | 54 | 111 | 152 | 186 | 382 | 78 | -207 | -2 | 269 | 90 | -40 | 34 | 100 | -43 | -3 | -76 | 322 | 15 | -12 | 334 |
| 30 | 21 | 23 | 115 | 123 | 54 | 199 | -56 | 216 | 232 | 107 | -69 | 148 | 283 | -92 | -3 | 161 | -128 | 28 | -69 | 392 | 218 | -17 | 91 |
| 31 | -94 | -52 | 257 | 268 | -45 | 82 | 23 | 269 | 704 | -82 | -113 | 389 | 171 | 68 | 135 | 181 | 59 | 105 | -26 | 454 | 176 | -81 | 158 |
| 32 | 113 | -45 | 334 | 167 | 146 | 127 | 320 | 443 | 299 | 62 | -45 | 367 | 389 | 33 | 336 | 173 | 17 | 91 | 132 | 548 | 119 | 70 | 163 |
| 33 | 20 | -135 | 233 | 170 | 18 | 171 | 236 | 340 | 166 | -63 | -161 | 559 | 251 | -156 | 120 | 192 | 126 | 284 | 10 | 527 | 97 | -29 | 122 |
| 34 | 72 | -103 | 149 | 82 | -37 | 240 | 74 | 218 | 234 | -32 | -132 | 383 | 73 | -58 | -62 | 68 | 20 | 173 | -175 | 339 | 108 | -36 | -4 |
| 35 | -43 | -57 | 96 | 159 | 150 | 259 | 110 | 231 | 57 | -64 | -147 | 435 | 113 | 106 | -77 | 79 | 24 | 137 | 116 | 147 | 186 | 16 | 96 |
| 36 | -31 | 88 | 40 | 239 | 332 | 393 | 263 | 537 | 65 | 11 | -169 | 224 | 140 | 83 | 44 | 242 | -21 | 32 | 127 | 205 | 92 | 128 | 344 |
| 37 | -34 | -224 | 46 | 108 | 57 | 253 | -92 | 354 | 227 | 85 | -208 | 271 | 16 | -50 | 140 | 77 | 116 | 39 | 170 | -32 | 148 | 149 | 38 |
| 38 | -71 | -52 | 204 | 26 | 339 | 297 | -123 | 278 | 89 | -81 | -217 | 146 | -6 | -194 | 41 | 53 | 40 | 36 | 32 | -85 | 23 | -51 | 10 |
| 39 | 58 | -9 | -11 | 249 | 202 | 195 | -150 | 225 | 71 | 20 | -151 | 183 | -10 | 39 | 136 | 127 | 56 | -7 | -8 | 68 | 82 | -16 | 3 |
| 40 | -118 | 72 | -9 | 17 | 134 | 230 | -142 | 168 | 48 | -117 | -206 | 169 | -71 | -18 | 36 | 150 | 41 | 139 | -34 | 20 | -69 | -64 | 136 |
| 41 | 1 | 126 | -98 | 265 | 196 | 116 | -84 | 378 | 69 | -314 | -177 | 174 | 87 | -129 | 16 | 110 | -59 | 91 | 38 | 44 | -32 | -99 | 11 |
| 42 | -55 | 155 | -265 | 278 | 144 | -115 | -538 | 278 | 35 | -540 | -135 | 209 | 86 | -60 | 132 | 271 | -85 | -18 | -429 | 267 | 53 | -37 | -665 |

Appendix 3. Pearson correlation coefficient r x100 between weekly injection percentage and weekly mortality for 6 age classes (appendices 1 and 2) for 23 countries, 42 weeks.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Lag | 0-14 | 15-44 | 45-64 | 65-74 | 75-84 | 85+ |
| 0 | -34 | -7 | -7 | 19 | -9 | -3 |
| 0 | -7 | -6 | 8 | 12 | 2 | 14 |
| 0 | 21 | -10 | 26 | 33 | 15 | 13 |
| 0 | 20 | -1 | 25 | 6 | 1 | 8 |
| 0 | -4 | 9 | 21 | 12 | -2 | 6 |
| 0 | 21 | 8 | 39 | 29 | 2 | 21 |
| 0 | 54 | 27 | 18 | 16 | -5 | 14 |
| 0 | 26 | 15 | -6 | -10 | -25 | -31 |
| 0 | 7 | -13 | 22 | -1 | -16 | -9 |
| 0 | -9 | 44 | 19 | 22 | -2 | 7 |
| 0 | 6 | 21 | 51 | 49 | 37 | 39 |
| 0 | -21 | 31 | 17 | 23 | 10 | 17 |
| 0 | 40 | 6 | 20 | 7 | -3 | 15 |
| 0 | -11 | 33 | 8 | 1 | -1 | -3 |
| 0 | -3 | 40 | 60 | 52 | 32 | 29 |
| 0 | 4 | 38 | 47 | 30 | 35 | 18 |
| 0 | -33 | -34 | 22 | 13 | 12 | -1 |
| 0 | 14 | 11 | 40 | 26 | 27 | 33 |
| 0 | -52 | 27 | -11 | 34 | 4 | 12 |
| 0 | -30 | -6 | 13 | 6 | 22 | -16 |
| 0 | -6 | 17 | 30 | 14 | 17 | 11 |
| 0 | -6 | -8 | 3 | -25 | 32 | 11 |
| 0 | -21 | 16 | -11 | -26 | 23 | 28 |
| 0 | -38 | -34 | -7 | -10 | 8 | 23 |
| 0 | 18 | -33 | -18 | -12 | -31 | -38 |
| 0 | -4 | -50 | 24 | -12 | -26 | -14 |
| 0 | -8 | -3 | -7 | -30 | 29 | -3 |
| 0 | -14 | -24 | -5 | -35 | 22 | 9 |
| 0 | 3 | 1 | 2 | -14 | 34 | -9 |
| 0 | 23 | -3 | -12 | -29 | 43 | -13 |
| 0 | 19 | 4 | -3 | 0 | 36 | -5 |
| 0 | -53 | 9 | 13 | 9 | 25 | 14 |
| 0 | 12 | 7 | -5 | -6 | 13 | 25 |
| 0 | -8 | -18 | -7 | -10 | 5 | 24 |
| 0 | -19 | 53 | 6 | 36 | -2 | 7 |
| 0 | 23 | -1 | -13 | -16 | -17 | -17 |
| 0 | 3 | -20 | 6 | 19 | -17 | 18 |
| 0 | 11 | -18 | 0 | 17 | 18 | 3 |
| 0 | 7 | -8 | -14 | 31 | -16 | -3 |
| 0 | -5 | 6 | 14 | 12 | -11 | 8 |
| 0 | 15 | 6 | 23 | -11 | 10 | 0 |
| 0 | 6 | 16 | 9 | 19 | -9 | 1 |
| 1 | -6 | -23 | -4 | 1 | -5 | 8 |
| 1 | 3 | -32 | 8 | 17 | 2 | 6 |
| 1 | 49 | 14 | 39 | 15 | 14 | 17 |
| 1 | -1 | 10 | 18 | 9 | -1 | 10 |
| 1 | 17 | -5 | 25 | 13 | -6 | 7 |
| 1 | 56 | 32 | 14 | 21 | 0 | 18 |
| 1 | 23 | -6 | 17 | -4 | -24 | -25 |
| 1 | 29 | -25 | 3 | -28 | -30 | -15 |
| 1 | 7 | 7 | -12 | -11 | -11 | 10 |
| 1 | 37 | 18 | 37 | 9 | 1 | 13 |
| 1 | -20 | 53 | 48 | 53 | 31 | 40 |
| 1 | 27 | 7 | 22 | 14 | 6 | 26 |
| 1 | 0 | 48 | 15 | -1 | -8 | 6 |
| 1 | -18 | 17 | 3 | 4 | -2 | -9 |
| 1 | 8 | 46 | 50 | 27 | 35 | 25 |
| 1 | -2 | -2 | 51 | 38 | 29 | 19 |
| 1 | -11 | 8 | 21 | 6 | 28 | 8 |
| 1 | -42 | 16 | -4 | 50 | 0 | 18 |
| 1 | -26 | -4 | 13 | 12 | -2 | 5 |
| 1 | -9 | -5 | 26 | 23 | 13 | 12 |
| 1 | -13 | 5 | 36 | 22 | -12 | 23 |
| 1 | -7 | 18 | -27 | -18 | 34 | 17 |
| 1 | -35 | -53 | 18 | -6 | 6 | 21 |
| 1 | 5 | -25 | -23 | -13 | -28 | -32 |
| 1 | 17 | -25 | 20 | -5 | -7 | -27 |
| 1 | 1 | -30 | -21 | -26 | 14 | -14 |
| 1 | -36 | -14 | 35 | -15 | 46 | 42 |
| 1 | 16 | -14 | -6 | -27 | 25 | -12 |
| 1 | 29 | -5 | -5 | -40 | 29 | -14 |
| 1 | 38 | -9 | -10 | -13 | 29 | -2 |
| 1 | -27 | -1 | 9 | 8 | 36 | 16 |
| 1 | 6 | 16 | 4 | 9 | 26 | 31 |
| 1 | 8 | -17 | -7 | -23 | 11 | 26 |
| 1 | -14 | 17 | -16 | 4 | 2 | 13 |
| 1 | 38 | 35 | 7 | -8 | -12 | -12 |
| 1 | 10 | -20 | 2 | 0 | -18 | 19 |
| 1 | 11 | -20 | -4 | 12 | 15 | 0 |
| 1 | 2 | -18 | -36 | 9 | -12 | -6 |
| 1 | -22 | 9 | -18 | 26 | -8 | 2 |
| 1 | 11 | -2 | 26 | -3 | 17 | 13 |
| 1 | -9 | 23 | 4 | 17 | -4 | 1 |
| 2 | -14 | -74 | -3 | 13 | -1 | 1 |
| 2 | 36 | -5 | 20 | 4 | 3 | 11 |
| 2 | 24 | 30 | 38 | 25 | 11 | 14 |
| 2 | 1 | -12 | 19 | 19 | 0 | 10 |
| 2 | 37 | 25 | 2 | 16 | -2 | 4 |
| 2 | 21 | -5 | 22 | -1 | -17 | -23 |
| 2 | 15 | -32 | 8 | -18 | -28 | -18 |
| 2 | 4 | -22 | -18 | -20 | -26 | -10 |
| 2 | 49 | 8 | -1 | -18 | -16 | 8 |
| 2 | -1 | 29 | 22 | 21 | 3 | 12 |
| 2 | 33 | 29 | 47 | 40 | 23 | 39 |
| 2 | 5 | 56 | 16 | 7 | 0 | 14 |
| 2 | 12 | 28 | 12 | -1 | -9 | 6 |
| 2 | 7 | 24 | -4 | -4 | 1 | -4 |
| 2 | -12 | 18 | 42 | 28 | 22 | 26 |
| 2 | -2 | 33 | 51 | 29 | 38 | 11 |
| 2 | -30 | 16 | 6 | 29 | -2 | 6 |
| 2 | -2 | -18 | 20 | 13 | -6 | 2 |
| 2 | 4 | -16 | 11 | 16 | 4 | 27 |
| 2 | -3 | 5 | -6 | 15 | 2 | 29 |
| 2 | -23 | 41 | 10 | 20 | 6 | 32 |
| 2 | -23 | -49 | -23 | -16 | 13 | 1 |
| 2 | -21 | -17 | -22 | -20 | -22 | -38 |
| 2 | 22 | -28 | 8 | -13 | -3 | -11 |
| 2 | -8 | -37 | -10 | -1 | 4 | -5 |
| 2 | -35 | -14 | 11 | -34 | 25 | 12 |
| 2 | -13 | -7 | -7 | -23 | 6 | -8 |
| 2 | 36 | -10 | 5 | -55 | 3 | -12 |
| 2 | 35 | -10 | -6 | -14 | 27 | 3 |
| 2 | -17 | -20 | -1 | -1 | 36 | 10 |
| 2 | 10 | 15 | 3 | 7 | 39 | 19 |
| 2 | -7 | -5 | -8 | -7 | 21 | 24 |
| 2 | -6 | 17 | -25 | -9 | -1 | 18 |
| 2 | -8 | -2 | -17 | -39 | -3 | -9 |
| 2 | 22 | 26 | 7 | 8 | -17 | 2 |
| 2 | 12 | -6 | -16 | 19 | 20 | -3 |
| 2 | 5 | -19 | -40 | 1 | -16 | -10 |
| 2 | -37 | -14 | -33 | 17 | -16 | -12 |
| 2 | 18 | -8 | 21 | 10 | 22 | 7 |
| 2 | -25 | 12 | 12 | 29 | 10 | 14 |
| 3 | 30 | -25 | 22 | -3 | 3 | 7 |
| 3 | 14 | 13 | 20 | 15 | 1 | 12 |
| 3 | 26 | 25 | 40 | 30 | 6 | 8 |
| 3 | 24 | 24 | -9 | 21 | 7 | 12 |
| 3 | 20 | -12 | 15 | -5 | -20 | -26 |
| 3 | 11 | -28 | 13 | -10 | -23 | -18 |
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