

Table S4: DALYs of rheumatoid arthritis in 1990 and 2017 for both sexes and percentage change of age-standardised rates by location(Generated data available from: ghdx.healthdata.org/gbd-results-tool/)

	1990		2017		Percentage change in age-standardised rates between 1990 and 2017
	Counts (95% UI)	Rate (95% UI)	Counts (95% UI)	Rate (95% UI)	
Global	1972652 (1540064, 2429271)	44.9 (35.2, 55.1)	3492036 (2658460, 4414818)	43.3 (33, 54.5)	-3.6 (-9.7, 0.3)
High-income North America	168053 (124449, 213593)	50.9 (37.4, 64.9)	301847 (225327, 384825)	57.6 (42.5, 73.6)	13.3 (8.1, 18.1)
Canada	9504 (7596, 11726)	29.2 (23.2, 36.1)	21227 (16206, 27151)	36.7 (27.6, 47.4)	25.8 (13.9, 37.4)
Greenland	14 (10, 18)	30.7 (22.4, 40)	30 (23, 39)	43.4 (32.5, 55.3)	41.1 (28.8, 56.9)
USA	158532 (116837, 202453)	53.2 (39, 68.2)	280585 (208753, 357397)	60 (44.3, 76.7)	12.8 (7.5, 17.6)
Australasia	11582 (9075, 14300)	49.1 (38.3, 60.9)	17932 (13401, 22908)	43.2 (31.8, 55.7)	-12 (-19.9, -4)
Australia	9525 (7426, 11812)	48.4 (37.7, 60.2)	14963 (11121, 19246)	42.8 (31.5, 55.3)	-11.5 (-20, -2.4)
New Zealand	2056 (1614, 2530)	52.5 (41.1, 64.6)	2969 (2256, 3814)	45.1 (33.7, 58.6)	-14 (-21.9, -5.8)
High-income Asia-Pacific	87384 (69367, 105852)	42.3 (33.6, 51.3)	101012 (76168, 127922)	30.4 (22.3, 39.1)	-28.2 (-34.4, -22.9)
Brunei	49 (36, 63)	33.6 (25.3, 42.6)	118 (85, 155)	30.4 (22.2, 39.4)	-9.4 (-20.3, 2.8)
Japan	74131 (59274, 90018)	43.8 (34.8, 53.5)	76403 (58017, 96082)	30.8 (22.8, 39.5)	-29.7 (-35.5, -25.1)
Singapore	715 (505, 953)	24.7 (17.7, 32.6)	1879 (1300, 2531)	26.8 (18.6, 35.9)	8.5 (-4.8, 20)
South Korea	12489 (9510, 15875)	35.1 (27.3, 43.6)	22611 (16185, 29739)	28.6 (20.3, 37.7)	-18.5 (-28.4, -8.4)
Western Europe	285967 (217454, 359803)	53.9 (40.6, 68.6)	356870 (259769, 463315)	51.5 (36.9, 67.2)	-4.5 (-10, 0)
Andorra	36 (26, 46)	58.4 (43, 74.9)	65 (48, 85)	54 (39, 70.2)	-7.6 (-16.9, 1.5)
Austria	5792 (4417, 7359)	54.4 (40.7, 70.2)	6435 (4575, 8413)	46.8 (32.9, 61.9)	-13.9 (-22.4, -5.9)
Belgium	7154 (5242, 9164)	51.5 (37.4, 66.6)	8232 (5941, 10796)	47.2 (33.6, 63)	-8.2 (-16.6, -0.1)
Cyprus	552 (415, 697)	65.2 (49, 82.6)	965 (696, 1243)	55.8 (40, 72.7)	-14.4 (-24.7, -4.6)
Denmark	3994 (3064, 5108)	54.4 (40.8, 70.1)	5257 (3927, 6752)	56 (41.1, 72.9)	2.9 (-5.8, 11.7)
Finland	6192 (5016, 7577)	89.9 (72.2, 110.4)	5922 (4505, 7476)	61.8 (46.1, 79.1)	-31.2 (-38.6, -23.6)
France	35457 (26178, 45263)	47 (34.4, 60.8)	46171 (33124, 60341)	45.2 (32.1, 59.9)	-3.7 (-12.4, 5.7)
Germany	63816 (47217, 83303)	56 (41.1, 73.3)	78573 (55928, 102871)	57 (39.6, 75.4)	1.8 (-7.2, 10.7)
Greece	5852	42.6	7061	41.7	-2.2

	(4159 , 7755)	(30.2 , 57)	(4932 , 9354)	(29 , 56.5)	(-11.5 , 8.1)
Iceland	137 (100 , 178)	50 (36.2 , 65.3)	224 (158 , 298)	49.7 (34.7 , 66.7)	-0.6 (-9.7 , 8.3)
Ireland	3074 (2421 , 3792)	76.2 (59.7 , 94.5)	4171 (3075 , 5334)	63.5 (46.3 , 81.7)	-16.7 (-25.3 , -7.6)
Israel	2082 (1472 , 2760)	43.3 (30.6 , 57.7)	4723 (3297 , 6277)	47.3 (32.9 , 63.3)	9.2 (0.3 , 18.7)
Italy	31008 (23207 , 39105)	38.6 (28.6 , 49.3)	40068 (29617 , 51485)	37.8 (27.4 , 49.6)	-2.1 (-11.6 , 7.9)
Luxembourg	255 (187 , 328)	49.6 (36 , 64.2)	407 (291 , 538)	48.9 (35.1 , 64.4)	-1.4 (-9.8 , 7.7)
Malta	206 (149 , 267)	48.5 (35 , 62.8)	345 (246 , 454)	49.7 (34.9 , 66.5)	2.4 (-6.3 , 11.9)
Netherlands	13443 (10576 , 16629)	69.5 (54 , 86.7)	14772 (10825 , 18956)	53.9 (38.7 , 70.1)	-22.4 (-30.6 , -14.4)
Norway	4436 (3607 , 5377)	71.8 (57.5 , 87.5)	4060 (3016 , 5198)	51.2 (37.5 , 66.1)	-28.8 (-35.4 , -23.3)
Portugal	6825 (5108 , 8763)	52.9 (39.2 , 68.5)	9269 (6696 , 12124)	52.8 (37.8 , 69.7)	-0.1 (-9.3 , 8.8)
Spain	21949 (16031 , 28898)	43.2 (31.2 , 56.7)	29603 (21664 , 38460)	39.8 (28.7 , 52.2)	-7.8 (-23.4 , 1.2)
Sweden	9724 (7353 , 12318)	75.4 (55.8 , 96.8)	9417 (6936 , 12033)	59.1 (42.4 , 77.4)	-21.5 (-26.7 , -16)
Switzerland	5293 (3969 , 6793)	54.8 (40.8 , 70.7)	6684 (4848 , 8651)	48.9 (34.7 , 64)	-10.8 (-19.2 , -2.3)
United Kingdom	58413 (47114 , 70408)	70.2 (55.5 , 85.8)	74075 (54622 , 93887)	73 (52.8 , 93.6)	4 (-4.7 , 11.1)
Eastern Europe	96752 (74598 , 120764)	34.9 (26.9 , 43.6)	105205 (79075 , 134521)	33.9 (25.4 , 43.5)	-2.8 (-6.6 , 0.7)
Belarus	3090 (2192 , 4173)	24.5 (17.3 , 33)	3966 (2776 , 5333)	28 (19.5 , 37.9)	14.4 (3.8 , 25.8)
Estonia	1310 (1062 , 1573)	65.1 (52.8 , 78.1)	922 (696 , 1167)	42.5 (31.9 , 53.6)	-34.6 (-42.2 , -26.7)
Latvia	1803 (1419 , 2218)	50.3 (39.7 , 62.4)	1254 (954 , 1583)	38.2 (29 , 48.5)	-24.1 (-32.8 , -15)
Lithuania	2347 (1906 , 2848)	52.1 (42.4 , 63.2)	1808 (1367 , 2280)	38 (28.6 , 47.9)	-27.1 (-35.7 , -18.7)
Moldova	1245 (891 , 1625)	26.8 (19.2 , 35.1)	1474 (1062 , 1944)	28.3 (20.3 , 37.2)	5.4 (-4.7 , 15.2)
Russia	70201 (54897 , 87099)	38.7 (30.1 , 48.1)	74599 (56370 , 94778)	35.1 (26.5 , 44.8)	-9.2 (-13.9 , -5.6)
Ukraine	16755 (11904 , 22129)	24.6 (17.5 , 32.6)	21183 (15523 , 27223)	31.1 (22.7 , 40.2)	26.2 (15 , 39.3)
Central Europe	54389 (41049 , 68317)	36.8 (27.8 , 46.2)	62355 (45539 , 80198)	34.5 (25 , 44.6)	-6.2 (-11.9 , -1.1)
Albania	609 (417 , 828)	23.7 (16.4 , 32.1)	1159 (817 , 1524)	30.8 (21.7 , 40.8)	29.9 (18.2 , 44.8)
Bosnia and Herzegovina	1371 (989 , 1811)	30.7 (22.6 , 39.8)	1878 (1339 , 2457)	35.5 (25.3 , 46.7)	15.6 (4.1 , 27.3)
Bulgaria	3203 (2241 , 4332)	27.1 (19 , 36.7)	3482 (2416 , 4660)	29.9 (20.7 , 40.7)	10.2 (0.5 , 20.2)
Croatia	1800 (1283 , 2406)	28.7 (20.6 , 38.6)	2825 (2132 , 3659)	39 (28.9 , 51.1)	35.8 (23 , 49.8)

Czech Republic	4075 (2895, 5362)	31.6 (22.4, 41.6)	5576 (3921, 7369)	33.3 (23.3, 44.3)	5.5 (-4.6, 16.7)
Hungary	6353 (4998, 7897)	44.7 (35, 55.8)	5465 (3994, 7091)	34.5 (25, 45.2)	-22.8 (-31.9, -14.1)
Macedonia	516 (354, 703)	25.2 (17.4, 34.3)	902 (615, 1215)	29.6 (20.2, 39.9)	17.3 (7.5, 27.7)
Montenegro	187 (134, 246)	28.6 (20.4, 37.6)	274 (191, 362)	31 (21.6, 40.9)	8.5 (-1, 19)
Poland	23812 (18912, 28835)	53.1 (42.1, 64.7)	23485 (17602, 29693)	39 (28.9, 49.6)	-26.5 (-34.4, -18.5)
Romania	6771 (4616, 9154)	24.6 (16.8, 33.3)	9032 (6300, 12000)	29.6 (20.5, 39.5)	20.3 (9.5, 32.8)
Serbia	3168 (2304, 4205)	27.6 (20.1, 36.3)	4263 (3110, 5557)	31.6 (22.7, 41.5)	14.5 (3.8, 26.4)
Slovakia	1561 (1091, 2101)	26.6 (18.5, 35.7)	2546 (1803, 3398)	31.7 (22.1, 42.4)	19 (7.8, 30.7)
Slovenia	963 (721, 1222)	39.3 (29.5, 50.1)	1468 (1098, 1870)	41.4 (30.3, 53)	5.3 (-3.8, 14.6)
Central Asia	19871 (15312, 25087)	36.7 (28.3, 46.2)	29748 (22044, 38260)	35.6 (26.4, 45.4)	-3 (-9.1, 3.5)
Armenia	790 (563, 1052)	25.9 (18.4, 34.3)	1262 (922, 1664)	32.2 (23.5, 42.6)	24.3 (11.6, 39.6)
Azerbaijan	1461 (1026, 1949)	25 (17.7, 33.1)	3052 (2098, 4124)	29.1 (20.2, 38.9)	16.4 (5.5, 28.5)
Georgia	1624 (1124, 2189)	26.4 (18.3, 35.8)	1525 (1079, 2031)	29.7 (20.8, 39.4)	12.3 (2.4, 24.2)
Kazakhstan	3807 (2691, 5107)	26.4 (18.7, 35.3)	5354 (3669, 7220)	29.6 (20.5, 39.8)	12.2 (2, 22.9)
Kyrgyzstan	1486 (1149, 1866)	45.5 (35.6, 57.1)	2635 (2066, 3265)	55.1 (43.6, 67.8)	21.1 (6.5, 35.7)
Mongolia	482 (375, 605)	36 (27.8, 45.4)	932 (671, 1232)	33.9 (24.5, 44.3)	-5.9 (-16.2, 3.9)
Tajikistan	1164 (881, 1494)	34.2 (25.8, 44)	2375 (1790, 3020)	35.3 (26.9, 44.3)	3.2 (-6.3, 13.5)
Turkmenistan	618 (442, 817)	25.7 (18.4, 33.8)	1324 (920, 1791)	30.2 (21.2, 40.2)	17.5 (6.6, 30)
Uzbekistan	8441 (6695, 10290)	60 (47.8, 72.8)	11288 (8647, 14173)	41.1 (31.8, 51.2)	-31.4 (-40.2, -21.7)
Central Latin America	57051 (45960, 69382)	56.9 (46.6, 68.6)	124065 (97205, 154064)	51 (40.1, 63.2)	-10.4 (-15.4, -6.1)
Colombia	9287 (7259, 11735)	41.8 (32.9, 52.2)	21238 (15636, 27443)	39.7 (29.2, 51.2)	-5.1 (-14.9, 4.9)
Costa Rica	811 (609, 1034)	38.9 (29.7, 49)	2349 (1760, 2969)	46.9 (35.1, 59.3)	20.6 (10.4, 31.5)
El Salvador	1226 (917, 1577)	34.1 (25.6, 43.9)	2185 (1548, 2855)	37.6 (26.6, 48.9)	10 (-1.9, 21.4)
Guatemala	1460 (1058, 1914)	30.6 (22.6, 39.8)	5554 (4124, 7078)	44.8 (33.7, 56.5)	46.5 (33.1, 65.2)
Honduras	1644 (1286, 2037)	62.9 (49.1, 76.8)	4369 (3365, 5554)	65.2 (49.9, 82.8)	3.5 (-11.5, 19.4)
Mexico	33812 (27810, 40299)	67.5 (56.3, 79.7)	68401 (54715, 83358)	57.1 (45.9, 69.2)	-15.4 (-20, -11.1)
Nicaragua	1020	47.1	2192	42	-10.8

	(792, 1287)	(36.7, 59.6)	(1587, 2852)	(30.5, 54.5)	(-22.5, 0.3)
Panama	640 (483, 820)	36.8 (28, 46.9)	1348 (960, 1762)	33.8 (24, 44.1)	-8.1 (-19.2, 2.6)
Venezuela	7152 (5542, 8965)	59.4 (46.8, 73.3)	16430 (12399, 20936)	54.8 (41.4, 69.6)	-7.8 (-17.8, 2.2)
Andean Latin America	13290 (10123, 16841)	53.5 (41, 66.8)	28123 (20233, 36630)	49.7 (36, 64.5)	-7 (-14.6, -0.4)
Bolivia	2542 (1852, 3219)	66.1 (48.5, 83.1)	5287 (3889, 6773)	56.4 (42.1, 71.7)	-14.6 (-26.7, -1.4)
Ecuador	3808 (2880, 4825)	58.8 (44.9, 74.1)	9517 (6969, 12258)	61.7 (45.3, 79.3)	5 (-4.2, 14.6)
Peru	6940 (5144, 8937)	47.7 (35.8, 61.1)	13319 (9430, 17743)	42.1 (29.9, 55.8)	-11.7 (-20.9, -2.7)
Caribbean	14670 (10775, 18851)	50.9 (37.5, 65.1)	26314 (18897, 34224)	52.3 (37.6, 67.9)	2.8 (-4.2, 9)
Antigua and Barbuda	27 (19, 35)	51 (36.8, 67)	57 (40, 75)	54.6 (38.8, 71.9)	7 (-1.3, 16.2)
The Bahamas	107 (76, 140)	57 (41.7, 73.9)	222 (157, 297)	54.9 (39.2, 73)	-3.8 (-11.4, 5.3)
Barbados	183 (135, 233)	66.9 (49.3, 85.9)	272 (198, 350)	63.1 (45.7, 82.2)	-5.5 (-14.6, 2.8)
Belize	58 (43, 75)	51.9 (38, 66.8)	177 (128, 232)	56.2 (40.6, 73.5)	8.3 (-1.4, 18.8)
Bermuda	37 (27, 49)	56.6 (40.4, 74.6)	60 (42, 79)	56.8 (39.3, 75)	0.3 (-8.8, 9.3)
Cuba	5175 (3757, 6761)	48.2 (35.3, 63.1)	8377 (5986, 11005)	50.8 (36.1, 66.8)	5.4 (-5.7, 15.8)
Dominica	36 (27, 46)	53.3 (39.6, 68.5)	47 (34, 60)	54.9 (39.4, 71.6)	2.9 (-5.9, 11.5)
Dominican Republic	2168 (1558, 2828)	46.9 (34.1, 60.5)	4585 (3127, 6167)	46.4 (31.8, 62.3)	-1.1 (-10.8, 9.2)
Grenada	31 (22, 41)	44.5 (31.9, 58.4)	62 (44, 82)	46.4 (32.6, 62.1)	4.3 (-5.2, 13.5)
Guyana	192 (132, 255)	36.6 (25.1, 48.8)	318 (223, 420)	46 (32.3, 60.7)	25.6 (14.9, 36.6)
Haiti	2589 (1793, 3443)	64.6 (46, 84.9)	4907 (3568, 6346)	58.8 (43.3, 75.5)	-9 (-22.9, 5.9)
Jamaica	799 (566, 1053)	43 (30.6, 57.1)	1416 (1005, 1868)	48.3 (34.3, 63.7)	12.4 (3.8, 22.1)
Puerto Rico	1873 (1337, 2475)	51 (36.4, 67.5)	3219 (2313, 4206)	58 (41.6, 76.4)	13.6 (4.9, 22.5)
Saint Lucia	57 (43, 74)	59.2 (44, 76)	121 (86, 159)	58.4 (41.5, 76.3)	-1.4 (-10.9, 7.9)
Saint Vincent and the Grenadines	35 (25, 46)	43.8 (31.1, 57.9)	67 (47, 91)	51.1 (35.6, 68.9)	16.6 (8.1, 26.4)
Suriname	122 (85, 163)	40.5 (28.3, 53.7)	284 (196, 383)	46.9 (32.6, 63.2)	15.8 (6.5, 25.9)
Trinidad and Tobago	629 (468, 808)	67.6 (50.5, 86.6)	1091 (789, 1435)	62.5 (45.1, 82.1)	-7.5 (-16.3, 1.7)
Virgin Islands	49 (34, 65)	50.1 (35.6, 66.4)	86 (60, 116)	54.8 (38.1, 74.4)	9.4 (0.4, 19)
Tropical Latin America	44691 (32552, 57711)	39.5 (29, 51.1)	103214 (74615, 134983)	43 (31.2, 56.3)	8.9 (5, 12.6)

Brazil	43842 (31978, 56500)	39.7 (29.2, 51.2)	100034 (72089, 130732)	42.8 (30.9, 55.9)	7.6 (3.7, 11.3)
Paraguay	849 (598, 1134)	31 (21.8, 41.2)	3180 (2338, 4103)	54.4 (40.1, 70.4)	75.7 (46.5, 104.1)
Southern Latin America	23777 (18216, 29940)	50.7 (39.1, 63.6)	36371 (27270, 46577)	47.2 (35.2, 60.6)	-6.8 (-13.3, -0.6)
Argentina	16207 (12512, 20396)	50.4 (39.1, 63.1)	22414 (16789, 28777)	44.8 (33.5, 57.6)	-11 (-19, -3)
Chile	5945 (4445, 7520)	53.5 (40.5, 67.4)	11854 (8837, 15247)	53.1 (39.4, 68)	-0.8 (-9.5, 7.8)
Uruguay	1624 (1222, 2069)	44.4 (33.3, 56.6)	2101 (1529, 2714)	45.8 (33, 59.4)	3.1 (-6.7, 12.9)
East Asia	351359 (276036, 435248)	33.8 (26.7, 41.5)	709970 (533129, 900231)	35.1 (26.4, 44.3)	3.9 (-10.2, 11.8)
China	334291 (262379, 414605)	33.9 (26.8, 41.7)	678767 (509013, 860809)	35.3 (26.6, 44.7)	4.2 (-10.3, 12.5)
North Korea	5615 (4172, 7305)	31 (23.1, 39.9)	10145 (7646, 12968)	32.1 (24.4, 41)	3.7 (-13.4, 28.4)
Taiwan (Province of China)	5599 (4375, 7056)	31.7 (25, 39.6)	9621 (7158, 12366)	26.8 (19.9, 34.5)	-15.6 (-24.7, -4.9)
Southeast Asia	64319 (51023, 78909)	21.1 (16.9, 25.6)	114176 (85908, 145679)	17.9 (13.6, 22.6)	-15.4 (-23.6, -6.9)
Cambodia	1186 (875, 1543)	20.8 (15.5, 27.3)	2461 (1848, 3122)	19.2 (14.7, 24.1)	-7.9 (-25.2, 10.4)
Indonesia	19095 (14524, 24293)	15.3 (11.6, 19.3)	38909 (28939, 50134)	16.3 (12.2, 20.8)	6.8 (-1.3, 14)
Laos	510 (379, 658)	19.9 (15.1, 25.6)	956 (713, 1218)	18.8 (14.2, 23.9)	-5.4 (-20.6, 9.4)
Malaysia	1690 (1210, 2196)	13.8 (9.9, 17.9)	4513 (3145, 6040)	15.5 (10.9, 20.7)	12.7 (-1.8, 27.2)
Maldives	20 (14, 26)	15.9 (11.3, 21.3)	59 (41, 80)	15 (10.5, 20.1)	-5.5 (-29.3, 15.7)
Mauritius	129 (91, 172)	14.3 (10.2, 19)	330 (244, 425)	20.3 (15, 26.1)	42.2 (26.4, 60.5)
Myanmar	5981 (4451, 7755)	21.8 (16.5, 28.3)	9935 (7472, 12556)	20.4 (15.5, 25.6)	-6.3 (-23.5, 11)
Philippines	11960 (9856, 14358)	36.7 (30.7, 43)	17564 (12986, 22752)	22.5 (17.1, 28.6)	-38.7 (-48.3, -28)
Sri Lanka	1809 (1315, 2403)	13.5 (9.9, 17.8)	3528 (2477, 4777)	14.2 (10, 19.2)	5.2 (-6.9, 18)
Seychelles	9 (7, 12)	15 (10.8, 20.1)	20 (14, 27)	17.5 (12.2, 23.4)	16.2 (5.2, 28)
Thailand	13406 (9768, 16353)	31.8 (22.6, 38.5)	18363 (13555, 23714)	19.3 (14.2, 24.9)	-39.4 (-51.4, -12.8)
Timor-Leste	72 (54, 94)	17.3 (13.2, 22.2)	159 (118, 204)	17.6 (13.1, 22.5)	1.6 (-14.6, 18.5)
Vietnam	8366 (6228, 10881)	18 (13.4, 23.3)	17229 (12549, 22531)	17.6 (13.1, 22.8)	-2 (-13.7, 11.3)
Oceania	983 (724, 1285)	23.8 (17.7, 30.8)	2305 (1703, 3038)	25.7 (19.1, 33.7)	7.8 (-1.9, 18.6)
American Samoa	8 (6, 11)	25.3 (17.9, 33.1)	15 (10, 20)	29.2 (20.9, 38.7)	15.7 (4.3, 28.9)
Federated States of	15	24.5	22	26.3	7.3

Micronesia	(11, 19)	(18.2, 31.5)	(16, 29)	(19.5, 33.7)	(-5.1, 21)
Fiji	98 (69, 131)	18.5 (13.1, 24.8)	176 (122, 236)	20.5 (14.3, 27.4)	10.8 (-0.6, 23.2)
Guam	21 (15, 29)	19.8 (13.8, 26.9)	44 (31, 58)	24.1 (17.2, 31.6)	21.9 (10.1, 36.2)
Kiribati	10 (7, 14)	20.3 (14.8, 26.9)	20 (14, 27)	23 (16.4, 30.1)	13.1 (1.5, 27)
Marshall Islands	6 (4, 8)	25.9 (18.7, 34.3)	12 (9, 16)	28.3 (20.5, 37.2)	9.4 (-2.8, 23.1)
Northern Mariana Islands	7 (5, 9)	20.9 (15.1, 27.4)	13 (9, 17)	22.4 (16, 29.7)	7.2 (-3.2, 18.8)
Papua New Guinea	644 (465, 859)	25.1 (18.3, 33.1)	1644 (1195, 2196)	26.4 (19.5, 35.1)	5.1 (-7.4, 19.8)
Samoa	24 (17, 32)	22.5 (15.9, 29.4)	40 (29, 53)	26 (18.7, 34.2)	15.4 (3.8, 28.7)
Solomon Islands	47 (34, 62)	24 (17.7, 31.5)	112 (83, 150)	26.2 (19.5, 34.6)	9.2 (-3.9, 23.7)
Tonga	15 (11, 20)	23.2 (16.5, 30.4)	23 (16, 30)	25.9 (18.6, 34.3)	11.7 (0.5, 24.4)
Vanuatu	22 (16, 29)	24.2 (17.6, 31.5)	56 (41, 75)	27.4 (19.6, 36.3)	12.9 (-3, 32.9)
North Africa and Middle East	76547 (54819, 99746)	34.6 (24.9, 45)	186728 (129598, 249177)	36.7 (25.5, 48.5)	6 (-1, 11.6)
Afghanistan	2536 (1782, 3448)	32.9 (23.3, 44.6)	6345 (4450, 8402)	38.4 (27.3, 50.5)	16.5 (2.9, 31.5)
Algeria	4255 (3003, 5676)	26.4 (18.6, 35.4)	11232 (7577, 15212)	29.8 (20.2, 40.2)	12.8 (1.6, 24.4)
Bahrain	110 (76, 149)	35 (24.9, 46.2)	585 (411, 777)	42.4 (30.3, 55.1)	21.2 (10.9, 32.3)
Egypt	11838 (8174, 16203)	31.4 (21.6, 42.3)	29055 (19938, 39307)	38.2 (26.3, 51.5)	21.9 (11.8, 32.7)
Iran	11863 (8369, 15692)	33.2 (23.5, 43.9)	32862 (22816, 43932)	40.5 (28.5, 53.8)	21.9 (17.2, 26.6)
Iraq	3599 (2510, 4739)	35.1 (24.6, 45.9)	11277 (7704, 15065)	37.2 (25.4, 49.8)	6 (-3.7, 16.3)
Jordan	697 (490, 924)	33.1 (23.3, 43.8)	3036 (2055, 4132)	37.6 (25.7, 50.8)	13.6 (2.8, 24.7)
Kuwait	414 (278, 563)	33.9 (23.1, 45.8)	1740 (1175, 2367)	43.1 (29.6, 58.4)	26.9 (16.1, 37.2)
Lebanon	975 (657, 1321)	34.9 (23.7, 47.1)	3131 (2169, 4199)	44.4 (30.8, 59.4)	27.3 (16.1, 40.8)
Libya	824 (566, 1107)	32 (21.9, 42.8)	2362 (1606, 3182)	39.3 (26.7, 52.8)	22.8 (12.6, 34.5)
Morocco	5344 (3784, 7074)	29.9 (21.1, 39.4)	12686 (8787, 17005)	36.4 (25.3, 48.5)	21.8 (11.3, 33.4)
Palestine	389 (280, 512)	34.3 (24.7, 45.1)	1211 (838, 1604)	37.2 (26.2, 49.6)	8.3 (-1.4, 19.3)
Oman	298 (205, 403)	27.3 (19, 36.5)	1115 (748, 1525)	33 (22.4, 44.4)	20.9 (10.5, 31.9)
Qatar	90 (61, 125)	30.7 (21.2, 41.3)	705 (479, 961)	32.3 (22.6, 43.5)	5.1 (-3.4, 14.8)
Saudi Arabia	2812 (1933, 3767)	29.7 (20.5, 39.5)	10391 (6992, 14272)	35.7 (24.2, 47.9)	20 (9.4, 31.1)

Sudan	3487 (2436, 4620)	28.1 (19.7, 37.7)	8458 (5815, 11635)	33.5 (23, 45.7)	19.2 (7.2, 32)
Syria	2203 (1520, 2952)	30.4 (21, 40.4)	5492 (3690, 7396)	35.8 (24.3, 48.2)	17.8 (6.8, 29.6)
Tunisia	1822 (1267, 2457)	29.2 (20.4, 39.3)	4440 (3042, 5965)	35 (24.1, 47)	19.8 (9.7, 31.5)
Turkey	20691 (15342, 26367)	49.3 (36.5, 62.5)	32076 (22838, 42121)	36.1 (25.8, 47.4)	-26.6 (-38.9, -14.4)
United Arab Emirates	310 (209, 426)	27.9 (19.3, 37.3)	2664 (1745, 3691)	30.6 (20.9, 40.7)	9.6 (0, 20.2)
Yemen	1941 (1380, 2602)	27.1 (19, 36.2)	5693 (4022, 7522)	31.3 (22.2, 41.7)	15.5 (1.3, 29.1)
South Asia	480092 (376643, 593883)	73.8 (59, 90.5)	979798 (757468, 1201710)	69.7 (54.3, 84.9)	-5.6 (-16.9, 1.7)
Bangladesh	35729 (27628, 45438)	65.1 (51.5, 81.7)	76796 (57374, 98497)	58.1 (44, 73.7)	-10.8 (-25.2, 1.5)
Bhutan	192 (147, 243)	67 (52.4, 83.7)	429 (313, 561)	61.3 (45.3, 79.9)	-8.5 (-24, 7.1)
India	399216 (311570, 494206)	76.9 (60.7, 94.1)	802169 (614311, 982804)	71.2 (55.3, 86.9)	-7.3 (-18.5, 0.4)
Nepal	6714 (5096, 8583)	63.8 (49.2, 81.2)	15455 (11631, 19475)	67.4 (51.3, 84.5)	5.7 (-11.7, 22)
Pakistan	38241 (29298, 48557)	60.5 (46.6, 76.3)	84949 (61799, 110890)	67.7 (50, 88.8)	11.9 (-3.2, 28.3)
Southern sub-Saharan Africa	20829 (16667, 25152)	59.8 (47.9, 72.5)	26901 (20342, 34074)	42.6 (32.5, 53.5)	-28.9 (-34.9, -21.6)
Botswana	328 (240, 419)	45.4 (33.3, 56.9)	700 (508, 908)	41.4 (30.5, 53.4)	-8.7 (-23.9, 5.1)
Lesotho	581 (425, 731)	51 (37.3, 64.3)	720 (529, 911)	52.3 (38.4, 65.9)	2.5 (-13.4, 21.2)
Namibia	450 (323, 563)	53.9 (38.2, 66.9)	658 (483, 858)	40.4 (30, 52.2)	-25.1 (-36.3, -11)
South Africa	17640 (14185, 21316)	67.3 (53.9, 81.5)	21615 (16487, 27554)	44 (33.9, 55.7)	-34.5 (-40.6, -26.7)
Swaziland	222 (160, 281)	57.3 (42, 71.7)	357 (257, 454)	51.3 (37.2, 64.7)	-10.5 (-23.5, 4.6)
Zimbabwe	1608 (1192, 2098)	28.9 (21.9, 37)	2850 (2082, 3650)	31.5 (23.3, 40.2)	9.2 (-4.8, 25.4)
Western sub-Saharan Africa	23579 (17433, 30890)	20.9 (15.7, 26.9)	55004 (40010, 71924)	22.9 (17, 29.6)	9.8 (0.8, 18.3)
Benin	597 (432, 777)	22.8 (16.9, 29.7)	1540 (1112, 2012)	24.9 (18, 32)	8.9 (-4.7, 22.5)
Burkina Faso	1266 (921, 1703)	23.4 (17.5, 30.7)	2762 (2027, 3654)	24.4 (18.2, 32.1)	4.3 (-9.8, 21)
Cameroon	1397 (1010, 1826)	24.7 (18.3, 31.9)	3809 (2748, 5038)	25.2 (18.5, 32.7)	1.9 (-11, 16.8)
Cape Verde	46 (33, 61)	19.4 (13.8, 25.8)	100 (69, 132)	21.3 (14.9, 28)	9.6 (-3.8, 24)
Chad	771 (557, 1039)	21.9 (16.1, 29.3)	1675 (1225, 2223)	23 (17.3, 30.1)	5 (-8.2, 20.1)
Cote d'Ivoire	1292 (924, 1693)	21.8 (16.2, 27.9)	3311 (2379, 4328)	24 (17.7, 30.6)	9.8 (-3.9, 24.7)
The Gambia	108	21.5	294	24.3	12.9

	(78, 143)	(15.8, 28.4)	(215, 379)	(18, 31.2)	(-0.5, 28.8)
Ghana	1531 (1089, 2053)	17.7 (12.8, 23.2)	4349 (3096, 5848)	22.2 (16, 29.3)	25.1 (13.3, 39.8)
Guinea	932 (675, 1226)	23.7 (17.5, 30.9)	1653 (1200, 2146)	25 (18.4, 32.3)	5.4 (-8.7, 20.2)
Guinea-Bissau	135 (98, 182)	25.5 (19, 34)	255 (185, 334)	26.7 (19.7, 34.8)	4.6 (-9, 20.6)
Liberia	299 (221, 391)	22.7 (17.1, 29.5)	639 (459, 847)	23.8 (17.2, 30.8)	4.7 (-7.7, 17.4)
Mali	1196 (835, 1647)	23.6 (17.2, 31.7)	2522 (1842, 3330)	23.6 (17.3, 30.9)	0 (-15.1, 13.7)
Mauritania	293 (214, 383)	23.6 (17.4, 31)	595 (428, 783)	24.4 (17.7, 31.8)	3.3 (-10.4, 16.4)
Niger	941 (658, 1301)	22.7 (16.6, 30.5)	2310 (1690, 3084)	23.4 (17.4, 31)	3.3 (-9.3, 17.7)
Nigeria	10887 (8033, 14213)	19.5 (14.4, 25.5)	24938 (17602, 32941)	21.9 (15.7, 28.7)	12.1 (-1.4, 26.9)
Sao Tome and Principe	17 (12, 22)	21.4 (15.8, 27.9)	31 (22, 40)	23.5 (17.4, 30.4)	10.3 (-3.6, 26.2)
Senegal	944 (690, 1241)	22.6 (17, 29.4)	2134 (1574, 2766)	24.1 (17.9, 30.8)	6.6 (-5.8, 20.8)
Sierra Leone	532 (390, 698)	22.1 (16.2, 28.8)	1057 (761, 1391)	23.7 (17.1, 31)	7.4 (-6.7, 23.1)
Togo	394 (282, 519)	21.7 (16, 28.2)	1029 (757, 1347)	23 (17.1, 29.6)	5.6 (-6.9, 20.5)
Eastern sub-Saharan Africa	60633 (47982, 77090)	68.4 (55.4, 85.6)	94182 (74288, 117235)	51.6 (41, 63)	-24.5 (-34.6, -14.6)
Burundi	1877 (1449, 2496)	74.5 (59, 97.8)	2491 (1915, 3095)	51.6 (40.7, 64.2)	-30.8 (-41.9, -17.5)
Comoros	162 (126, 207)	69.3 (54.8, 87.9)	254 (194, 327)	52.4 (40.4, 67.2)	-24.4 (-37.4, -9.7)
Djibouti	123 (92, 158)	65.7 (50.1, 83.1)	339 (253, 437)	52.3 (39.4, 67.1)	-20.4 (-35.5, -3.3)
Eritrea	929 (704, 1210)	82.7 (65, 107.1)	1637 (1252, 2095)	63.9 (48.9, 81.4)	-22.8 (-38.7, -4.3)
Ethiopia	18935 (13327, 24934)	81 (60.3, 104.1)	23393 (18016, 29167)	50.1 (38.8, 62.4)	-38.1 (-51.2, -17.9)
Kenya	5569 (4343, 6946)	57.1 (45.1, 70.5)	11981 (9457, 14923)	49.4 (39.8, 60.8)	-13.4 (-19.8, -7.3)
Madagascar	3562 (2817, 4491)	58.3 (46.4, 73)	6013 (4628, 7600)	49.1 (38.6, 61.1)	-15.8 (-26.6, -3.8)
Malawi	3020 (2183, 4002)	64.1 (47.1, 83.5)	4412 (3428, 5516)	52.1 (40.9, 64.9)	-18.7 (-32, 1.2)
Mozambique	5202 (4020, 6821)	72 (57, 92.4)	7673 (5897, 9677)	59.8 (47.1, 74.3)	-17 (-30, -2.2)
Rwanda	2527 (1954, 3285)	74.7 (59.1, 95.4)	3324 (2559, 4267)	51.3 (39.8, 65.8)	-31.3 (-44.6, -14.5)
Somalia	2210 (1521, 3101)	71.9 (52.3, 97)	4571 (3425, 5985)	62.4 (47.2, 80.7)	-13.3 (-32.2, 13.6)
South Sudan	1958 (1357, 2704)	71 (50.9, 95.5)	2579 (1905, 3374)	58.5 (44.3, 75.7)	-17.6 (-35, 3)
Tanzania	7762 (5943, 10040)	61.3 (47.3, 78.5)	13797 (10613, 17458)	50.5 (38.8, 63.9)	-17.6 (-30.1, -4.7)

Uganda	4178 (3158 , 5418)	54.2 (41.3 , 70.4)	7578 (5744 , 9794)	46.7 (35.7 , 59.3)	-14 (-28.3 , 0.2)
Zambia	2591 (2056 , 3272)	75.8 (60.6 , 94.3)	4079 (3164 , 5091)	54.4 (43.6 , 67.4)	-28.2 (-39 , -17.3)
Central sub-Saharan Africa	16832 (12369 , 22211)	57.4 (42.7 , 74.3)	29915 (22826 , 38220)	45.9 (35.2 , 58.2)	-20.1 (-31.1 , -8.5)
Angola	3449 (2353 , 4930)	64.2 (46.4 , 88.1)	6848 (5081 , 8785)	48.7 (36.8 , 62.1)	-24.2 (-40.5 , -7.2)
Central African Republic	1009 (703 , 1472)	66.9 (47.4 , 96.3)	1370 (1007 , 1806)	50.4 (37.6 , 66.5)	-24.6 (-36.8 , -9.7)
Congo	886 (632 , 1161)	67.2 (49.1 , 87.1)	1514 (1125 , 1928)	48.9 (36.8 , 61.5)	-27.1 (-40.4 , -12.3)
DR Congo	10950 (8058 , 14140)	54.1 (39.9 , 69.8)	19298 (14460 , 24764)	44.4 (33.6 , 57.1)	-17.9 (-28.9 , -5.4)
Equatorial Guinea	167 (113 , 252)	68.8 (48.8 , 100.3)	326 (237 , 425)	51.1 (37.3 , 65.9)	-25.7 (-48.1 , -3.5)
Gabon	373 (271 , 476)	59.3 (42.9 , 75.3)	559 (411 , 729)	45.9 (33.8 , 59.1)	-22.6 (-34.9 , -8.6)