

Table S3: Incident cases of osteoarthritis in 1990 and 2017 for both sexes and percentage change of age-standardised rates by location (Generated from data available from http://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	7393864 (6580476, 8313882)	167.4 (149.2, 188.4)	14933477 (13386312, 16739563)	181.2 (162.6, 202.4)	8.2 (7.1, 9.4)
High-income North America	762007 (685684, 844649)	239.2 (214.5, 265.9)	1617470 (1491772, 1754338)	306.6 (285.0, 331.0)	28.2 (21.6, 35.7)
Canada	57916 (51949, 64072)	183.0 (163.9, 203.1)	123778 (110673, 137633)	220.0 (198.0, 244.9)	20.2 (16.6, 24.1)
Greenland	89 (79, 100)	192.6 (172.0, 215.6)	169 (150, 192)	223.7 (200.9, 250.4)	16.1 (12.6, 19.8)
USA	703985 (632965, 781241)	245.5 (220.0, 273.2)	1493494 (1382355, 1615991)	316.9 (295.0, 341.1)	29.1 (21.9, 37.1)
Australasia	46674 (41311, 52660)	205.0 (181.6, 231.0)	94892 (84321, 106393)	236.0 (210.0, 263.6)	15.1 (11.8, 18.3)
Australia	38901 (34387, 43927)	204.5 (180.7, 230.4)	79523 (70662, 89220)	235.3 (209.4, 263.0)	15.1 (11.2, 18.9)
New Zealand	7772 (6925, 8711)	208.0 (185.2, 233.1)	15368 (13614, 17187)	239.9 (213.3, 267.4)	15.3 (11.8, 18.9)
High-income Asia-Pacific	490742 (433247, 551571)	229.9 (203.5, 258.3)	730959 (648213, 824137)	233.4 (206.6, 262.8)	1.5 (0.3, 2.6)
Brunei	305 (269, 346)	210.4 (185.7, 237.8)	978 (854, 1118)	232.3 (204.6, 264)	10.4 (6.6, 14.8)
Japan	406856 (359147, 457356)	235.4 (208.7, 264.7)	531220 (470466, 598847)	242.1 (214.9, 272.1)	2.8 (2.0, 3.6)
Singapore	6191 (5448, 7048)	216.5 (191.2, 245)	17548 (15496, 19908)	238.2 (211.5, 269.5)	10.1 (5.9, 14.4)
South Korea	77389 (67914, 88058)	207.3 (182.3, 234.2)	181213 (158956, 205235)	213.7 (188.6, 242.5)	3.1 (-0.9, 7.3)
Western Europe	956368 (848945, 1075868)	185.9 (165.5, 209.0)	1388491 (1236594, 1553730)	200.8 (179.5, 224.4)	8.0 (6.7, 9.2)
Andorra	109 (97, 122)	177.2 (157.5, 198.8)	243 (215, 275)	187.5 (166.6, 210.8)	5.8 (2.3, 9.7)
Austria	19056 (16873, 21504)	184.7 (163.7, 208.0)	27983 (24916, 31410)	197.6 (176.0, 221.6)	7.0 (3.3, 10.5)
Belgium	24671 (21818, 27833)	181.2 (160.6, 202.9)	34560 (30421, 38956)	195.7 (173.0, 219.7)	8 (4.1, 11.8)
Cyprus	1510 (1341, 1706)	183.4 (163.0, 206.9)	3461 (3078, 3880)	198.9 (177.1, 222.6)	8.4 (4.4, 11.9)
Denmark	12967 (11486, 14616)	186.8 (165.1, 210.5)	18243 (16073, 20458)	203.2 (180.2, 228.4)	8.8 (4.9, 12.9)
Finland	12555 (11098, 14120)	189.2 (167.5, 213.5)	18595 (16391, 20947)	207.9 (185.0, 234.5)	9.9 (6.2, 13.7)
France	130719 (115794, 146957)	179.8 (159.4, 202.2)	198606 (176393, 223023)	196.5 (174.9, 220.6)	9.3 (5.7, 13.1)
Germany	213464 (189415, 240045)	187.8 (166.7, 211.6)	287851 (255431, 322150)	205 (181.9, 229.7)	9.2 (5.1, 13.1)
Greece	26798	189.7	35519	205.6	8.4

	(23500, 30292)	(168.1, 214.3)	(31542, 39759)	(182.2, 231.8)	(4.7, 12.2)
Iceland	514 (459, 575)	194.5 (173.2, 218.1)	986 (874, 1108)	213.6 (190.1, 238.5)	9.8 (6.0, 13.7)
Ireland	6994 (6206, 7872)	184.8 (163.9, 207.9)	13382 (11904, 15086)	202.3 (180.1, 228.4)	9.5 (5.6, 13.1)
Israel	8668 (7676, 9732)	187.5 (165.7, 211.3)	20211 (17893, 22800)	202.5 (179.7, 228.8)	8.0 (4.4, 11.2)
Italy	145201 (127659, 165049)	182.0 (160.9, 205.9)	199432 (176748, 224098)	189.8 (168.5, 213.6)	4.3 (0.7, 8.1)
Luxembourg	964 (854, 1093)	186.8 (165.4, 211.1)	1751 (1549, 1973)	201.8 (178.9, 227.2)	8.0 (4.2, 11.7)
Malta	842 (749, 949)	193.9 (172.9, 218.4)	1506 (1332, 1703)	213.3 (189.7, 241.1)	10.0 (6.4, 13.9)
Netherlands	34619 (30801, 38905)	187.2 (166.2, 210.3)	54875 (48327, 61912)	201.1 (178.6, 226.1)	7.4 (3.6, 11.1)
Norway	10044 (8943, 11311)	182.5 (162.5, 205.1)	15434 (13747, 17310)	198.4 (176.9, 222.6)	8.7 (7.5, 10.0)
Portugal	24443 (21623, 27625)	187.9 (166.9, 212.0)	37437 (33469, 41822)	208.7 (186.5, 233.4)	11.1 (6.6, 16.4)
Spain	89698 (79397, 100704)	178.5 (158.7, 199.2)	146469 (131111, 163006)	193.9 (173.3, 216.5)	8.6 (5.0, 12.3)
Sweden	20332 (17883, 23012)	166.3 (146.3, 188.5)	28334 (25022, 32134)	182.4 (160.5, 205.5)	9.7 (6.8, 12.8)
Switzerland	16546 (14699, 18535)	178.6 (158.6, 200.5)	25785 (22829, 29054)	188.3 (167.1, 213.0)	5.4 (1.7, 8.9)
United Kingdom	154734 (137319, 173664)	201.2 (179.3, 225.9)	216391 (192925, 242241)	218.2 (195.2, 244.2)	8.5 (7.9, 9.0)
Southern Latin America	99278 (88006, 111712)	208.6 (185.0, 234.5)	179244 (159755, 201064)	233.2 (207.5, 261.7)	11.8 (9.1, 15.1)
Argentina	68235 (60401, 77147)	207.2 (183.6, 234.3)	114577 (101977, 128531)	230.6 (205.0, 259.4)	11.3 (7.5, 15.5)
Chile	23507 (20916, 26571)	212.3 (188.4, 240.0)	54108 (47996, 60811)	237.5 (211.4, 267.1)	11.9 (8.4, 15.8)
Uruguay	7532 (6678, 8503)	208.6 (185.9, 234.3)	10551 (9384, 11804)	238.4 (212.2, 267.1)	14.3 (10.5, 18.6)
Eastern Europe	452557 (400135, 508989)	162.0 (143.7, 182.2)	552620 (488453, 622578)	176.0 (156.7, 197.3)	8.7 (7.7, 9.9)
Belarus	20462 (17954, 23114)	159.6 (141.5, 180.4)	24923 (21955, 28178)	171.9 (152.4, 193.9)	7.7 (3.9, 11.5)
Estonia	3165 (2793, 3578)	158.7 (140.5, 179.4)	3537 (3147, 3982)	173.5 (154.4, 195.2)	9.3 (5.6, 13.1)
Latvia	5765 (5103, 6525)	164.0 (145.6, 185.1)	5432 (4808, 6100)	174 (154.5, 195.4)	6.1 (2.4, 9.6)
Lithuania	7156 (6326, 8088)	159.1 (141.1, 179.7)	7806 (6886, 8838)	171.2 (152.1, 192.9)	7.6 (3.8, 11.7)
Moldova	7465 (6580, 8445)	158.9 (140.4, 179.2)	9277 (8176, 10456)	172.3 (153.0, 193.5)	8.5 (4.5, 12.8)
Russia	295354 (261255, 331534)	161.7 (143.9, 181.7)	383696 (339107, 431761)	178.1 (158.3, 199.3)	10.1 (9.4, 11.0)
Ukraine	113189 (99635, 127816)	163.5 (144.5, 184.0)	117949 (104294, 133092)	171.3 (151.7, 193.7)	4.8 (0.9, 8.4)
Central Europe	224182 (198622, 252226)	150.2 (133.7, 169.3)	289999 (257100, 325835)	160.9 (143.5, 180.2)	7.1 (5.4, 8.6)

Albania	3321 (2942, 3732)	137.2 (121.5, 154.0)	5798 (5096, 6554)	150.8 (133.8, 169.7)	9.9 (6.1, 14.2)
Bosnia and Herzegovina	6592 (5786, 7477)	139.7 (124.0, 157.3)	8413 (7409, 9527)	155.4 (138.1, 174.5)	11.2 (7.4, 15.2)
Bulgaria	19390 (17079, 22002)	157.1 (139.4, 177.4)	18797 (16579, 21176)	158.1 (139.6, 178.0)	0.6 (-2.7, 4.5)
Croatia	9683 (8498, 10966)	149.4 (131.9, 167.8)	11106 (9849, 12523)	158.8 (141.3, 178.4)	6.3 (2.9, 9.9)
Czech Republic	19938 (17647, 22577)	152.1 (134.8, 171.8)	27134 (24104, 30601)	159.3 (142.2, 179.2)	4.7 (1.4, 8.3)
Hungary	22573 (19947, 25542)	160.3 (142.4, 180.3)	25786 (22701, 29083)	163.7 (145.0, 184.4)	2.1 (-1.4, 5.5)
Macedonia	3168 (2800, 3563)	153.5 (136.2, 172.9)	5193 (4575, 5845)	164.1 (145.1, 184.0)	6.9 (3.5, 10.3)
Montenegro	1011 (892, 1141)	152.5 (135.4, 171.6)	1428 (1264, 1612)	157.3 (140.1, 176.5)	3.2 (0.1, 6.4)
Poland	65657 (57938, 74298)	147.3 (130.5, 166.6)	95433 (84264, 106937)	161.1 (143.1, 180.5)	9.4 (5.6, 13.1)
Romania	41208 (36184, 46661)	145.2 (129.2, 163.7)	49814 (44184, 56246)	160.9 (142.7, 181.5)	10.8 (7.3, 14.2)
Serbia	18766 (16444, 21358)	156.1 (138.7, 175.8)	22236 (19592, 25175)	166.1 (147.9, 186.9)	6.4 (2.6, 9.9)
Slovakia	9196 (8103, 10360)	156.0 (138.4, 175.6)	13324 (11799, 15081)	161.4 (143.3, 181.9)	3.5 (0.5, 6.7)
Slovenia	3679 (3234, 4172)	149.2 (132.1, 168.8)	5537 (4876, 6225)	162.1 (143.8, 182.4)	8.6 (5.5, 12.2)
Central Asia	64947 (57408, 72882)	126.9 (112.8, 141.7)	117287 (104054, 132431)	137.0 (122.0, 154.0)	8.0 (6.4, 9.6)
Armenia	3836 (3382, 4336)	126.9 (113.3, 142.4)	5494 (4862, 6225)	138.1 (123.2, 155.3)	8.9 (5.1, 12.6)
Azerbaijan	6965 (6122, 7874)	125.1 (111.2, 140.1)	15378 (13555, 17500)	140.2 (124.4, 157.9)	12.0 (8.7, 15.6)
Georgia	8184 (7202, 9206)	129.8 (115.1, 145.3)	7348 (6501, 8303)	138.7 (123.2, 156.1)	6.8 (3.3, 10.2)
Kazakhstan	18752 (16614, 21083)	131.9 (117.1, 147.7)	26203 (23198, 29521)	140.2 (124.9, 157.1)	6.3 (2.7, 9.4)
Kyrgyzstan	3937 (3482, 4430)	124.0 (110.2, 139.3)	6806 (6026, 7709)	130.9 (116.2, 147.4)	5.6 (2.1, 8.9)
Mongolia	1435 (1277, 1617)	121.6 (107.8, 136.3)	3744 (3300, 4254)	130.3 (115.9, 146.3)	7.1 (3.8, 10.5)
Tajikistan	3583 (3176, 4030)	118.1 (105.0, 132.4)	8121 (7178, 9203)	126.3 (111.9, 141.5)	6.9 (3.3, 10.1)
Turkmenistan	2683 (2375, 3037)	123.6 (109.5, 139.9)	6364 (5629, 7183)	139.8 (123.9, 156.5)	13.1 (9.3, 17.0)
Uzbekistan	15572 (13783, 17507)	124.5 (110.5, 140.3)	37829 (33475, 42909)	137.1 (121.4, 154.2)	10.1 (6.6, 13.6)
Central Latin America	131620 (117678, 147240)	132.4 (118.2, 148.1)	367285 (328804, 410093)	148.4 (133.0, 165.5)	12.1 (11.0, 13.1)
Colombia	25715 (22939, 28853)	121.7 (108.7, 136.6)	74905 (66707, 84025)	138.7 (123.4, 155.3)	13.9 (10.4, 17.7)
Costa Rica	2579 (2302, 2891)	130.1 (116.1, 145.6)	7448 (6638, 8365)	145.7 (130.0, 163.4)	12.0 (8.4, 15.3)
El Salvador	4180	128.3	8360	147.8	15.2

	(3708, 4704)	(113.8, 143.5)	(7469, 9334)	(131.9, 165.0)	(11.6, 18.8)
Guatemala	5314 (4727, 5989)	119.6 (106.4, 134.5)	16410 (14638, 18396)	139.4 (124.1, 156.5)	16.6 (13.1, 20.6)
Honduras	2953 (2641, 3316)	121.5 (108.1, 136.2)	9437 (8439, 10618)	142.3 (126.7, 159.6)	17.1 (13.7, 20.7)
Mexico	71170 (63598, 79724)	139.6 (124.8, 156.1)	191882 (171773, 215358)	154.3 (138.3, 172.2)	10.5 (9.7, 11.3)
Nicaragua	2512 (2246, 2818)	134.9 (120.3, 150.4)	7919 (7066, 8897)	156.8 (139.8, 175.5)	16.3 (12.7, 19.6)
Panama	1894 (1685, 2126)	113.5 (101.1, 127.5)	5254 (4691, 5891)	130.3 (116.3, 145.6)	14.8 (10.6, 19.2)
Venezuela	15304 (13669, 17208)	131.5 (117.1, 147.7)	45670 (40839, 51133)	148.2 (132.7, 166.0)	12.7 (9.4, 16.2)
Andean Latin America	35669 (31715, 40221)	149.3 (132.9, 167.5)	94531 (84556, 105717)	167.4 (149.8, 186.8)	12.1 (9.4, 14.4)
Bolivia	5545 (4930, 6255)	144.8 (128.8, 162.9)	15750 (14046, 17677)	166.1 (147.8, 186.8)	14.7 (11.0, 18.1)
Ecuador	9904 (8807, 11158)	159.4 (141.7, 178.3)	26995 (24161, 30294)	174.6 (156.2, 195.7)	9.5 (4.5, 13.9)
Peru	20219 (17925, 22864)	146.1 (129.7, 164.8)	51786 (46187, 57961)	164.2 (146.4, 183.6)	12.4 (9.0, 16.1)
Caribbean	38446 (34229, 43183)	139.1 (123.8, 156.4)	77158 (68582, 86470)	151.0 (134.7, 169.3)	8.6 (7.0, 10.0)
Antigua and Barbuda	74 (66, 83)	149.8 (132.8, 169.4)	181 (161, 204)	166.4 (148.3, 186.5)	11.1 (7.8, 15.1)
The Bahamas	265 (236, 301)	146.3 (129.4, 165.1)	654 (579, 737)	153.1 (136.4, 170.9)	4.7 (1.3, 8.1)
Barbados	388 (348, 435)	154.5 (137.5, 173.9)	723 (637, 815)	164.4 (145.6, 184.2)	6.4 (3.1, 10.3)
Belize	147 (131, 166)	147.3 (131.1, 166.1)	517 (459, 583)	167.1 (148.8, 187.7)	13.5 (10, 17.4)
Bermuda	108 (96, 122)	161.8 (143.9, 181.5)	192 (169, 216)	175.2 (155.8, 196.1)	8.3 (4.8, 11.9)
Cuba	14775 (13182, 16664)	141.7 (126.4, 159.9)	26705 (23641, 30044)	153.6 (136.5, 172.1)	8.3 (4.7, 11.7)
Dominica	89 (79, 100)	142.2 (125.7, 160.4)	134 (119, 151)	156.2 (139.0, 175.9)	9.8 (6.3, 13.6)
Dominican Republic	5871 (5215, 6609)	135.3 (120, 152.5)	14562 (12945, 16373)	148.9 (132.7, 166.9)	10.1 (6.4, 13.6)
Grenada	89 (79, 100)	138.8 (123.4, 156.2)	205 (183, 229)	156.1 (138.5, 174.5)	12.5 (8.7, 16.5)
Guyana	645 (573, 727)	140.9 (124.8, 158.8)	1089 (962, 1225)	155.3 (138.0, 174.1)	10.3 (6.5, 14.1)
Haiti	4672 (4129, 5275)	120.8 (107.3, 135.8)	10751 (9531, 12155)	130.2 (115.9, 147)	7.8 (3.8, 11.4)
Jamaica	2406 (2136, 2695)	141.9 (125.8, 159.3)	4598 (4093, 5167)	157.6 (140.0, 177.3)	11.1 (7.4, 14.9)
Puerto Rico	5413 (4823, 6092)	149 (132.6, 167.7)	9186 (8143, 10323)	166.1 (147.8, 187)	11.5 (7.8, 15.5)
Saint Lucia	133 (119, 149)	148.5 (132.1, 166.7)	358 (317, 405)	165.6 (146.8, 186.2)	11.5 (8.0, 15.4)
Saint Vincent and the Grenadines	112 (100, 126)	157.6 (140.2, 177.1)	253 (226, 283)	185.8 (166.7, 207.9)	17.9 (13.9, 21.9)

Suriname	396 (351, 448)	138.1 (122.4, 155.7)	992 (875, 1115)	157.6 (139.7, 176.9)	14.1 (10.6, 17.7)
Trinidad and Tobago	1388 (1235, 1562)	150.7 (134.0, 169.3)	3014 (2667, 3400)	166.4 (148.4, 186.7)	10.4 (6.5, 14.1)
Virgin Islands	158 (141, 180)	154.0 (136.7, 173.3)	269 (237, 305)	164 (145.8, 184.2)	6.5 (3.5, 10.0)
Tropical Latin America	152267 (135493, 171818)	141.6 (126.1, 158.7)	393272 (351161, 440732)	160.3 (143.1, 179.5)	13.2 (11.9, 14.4)
Brazil	148806 (132410, 167876)	141.7 (126.2, 158.8)	384383 (343247, 430840)	160.5 (143.3, 179.8)	13.3 (11.9, 14.5)
Paraguay	3462 (3089, 3915)	138.1 (123.2, 155.4)	8889 (7882, 9971)	152.9 (135.4, 170.7)	10.7 (7.4, 14.2)
East Asia	1401578 (1237966, 1603249)	131.5 (116.0, 149.8)	2863025 (2518387, 3258629)	136.2 (120.5, 153.9)	3.6 (1.1, 6.1)
China	1339786 (1182401, 1532449)	132.7 (117.0, 151.1)	2745949 (2412717, 3127137)	137.4 (121.5, 155.4)	3.5 (1.0, 6.1)
North Korea	20161 (17735, 23034)	103.1 (91.6, 116.9)	34929 (30570, 39768)	105.7 (93.1, 119.9)	2.5 (-1.1, 6.3)
Taiwan (Province of China)	18280 (16208, 20753)	99.5 (88.2, 112.7)	36024 (31940, 40262)	99.5 (88.7, 111.1)	0.0 (-5.5, 5.0)
Southeast Asia	472110 (416247, 539610)	148.8 (131.2, 168.9)	1161936 (1019535, 1324298)	167.5 (147.7, 190)	12.6 (11.3, 14.1)
Cambodia	8242 (7234, 9414)	146.0 (128.6, 166.2)	21086 (18409, 24086)	156.3 (137.2, 177.7)	7.1 (3.1, 11.7)
Indonesia	189371 (166392, 216657)	149.1 (131.5, 169.7)	447403 (392580, 510122)	168.4 (148.9, 191.3)	13 (11.6, 14.4)
Laos	3668 (3212, 4202)	145.9 (128.5, 166.7)	8661 (7565, 9876)	161.8 (142.5, 183.4)	10.9 (6.7, 15.1)
Malaysia	19427 (16967, 22289)	162.6 (143.0, 185.7)	56317 (49534, 64175)	189.9 (167.5, 216.3)	16.8 (12.1, 21.9)
Maldives	184 (160, 212)	156.6 (138.3, 178.5)	764 (661, 881)	186.8 (164.1, 213.8)	19.3 (14.9, 24.2)
Mauritius	1439 (1266, 1644)	164.1 (144.7, 187.6)	3313 (2901, 3771)	191.4 (169.0, 217.5)	16.6 (12.2, 21.2)
Myanmar	40183 (35240, 45853)	146.2 (128.3, 166.1)	85937 (75241, 98828)	163.5 (143.9, 186.7)	11.8 (7.7, 16.1)
Philippines	54478 (47688, 62587)	141.3 (124.6, 161.3)	135640 (118652, 155273)	154.4 (136.2, 175.4)	9.2 (4.8, 14.6)
Sri Lanka	20267 (17779, 23164)	150.6 (132.7, 171.4)	42593 (37342, 48432)	166.2 (146.4, 188.4)	10.4 (5.6, 15.6)
Seychelles	99 (88, 113)	178.0 (157.7, 203.2)	258 (226, 295)	208.0 (183.4, 236.2)	16.8 (12.7, 21.0)
Thailand	67134 (58910, 76905)	148.2 (130.9, 168.8)	180598 (158366, 206755)	176.9 (155.9, 201)	19.4 (15.1, 25.1)
Timor-Leste	620 (540, 713)	142.1 (125.5, 160.7)	1295 (1142, 1479)	150.0 (132.0, 171.1)	5.5 (1.6, 9.7)
Vietnam	66373 (58539, 75534)	154.1 (135.4, 176.2)	176543 (153624, 203105)	165.4 (145.2, 188.8)	7.3 (3.2, 11.6)
Oceania	6061 (5349, 6907)	155.3 (137.7, 176.2)	14792 (13017, 16916)	164.2 (145.2, 186.3)	5.7 (2.6, 8.5)
American Samoa	70 (62, 79)	226.1 (201.3, 255.4)	134 (117, 153)	249.3 (220.8, 282.6)	10.3 (6.1, 14.3)
Federated States	100	174.3	176	196.8	12.9

of Micronesia	(88, 114)	(153.6, 198.8)	(154, 203)	(173.8, 224.0)	(8.4, 17.2)
Fiji	867 (762, 991)	169.9 (150.9, 191.7)	1690 (1489, 1927)	189.3 (167.3, 214.4)	11.4 (7.1, 15.2)
Guam	182 (161, 207)	173.8 (154.4, 197.1)	371 (324, 423)	195.9 (172.3, 221.4)	12.7 (8.6, 17.4)
Kiribati	84 (74, 96)	177.8 (158.0, 201.9)	177 (155, 201)	199.1 (176.5, 224.4)	12.0 (8.3, 15.9)
Marshall Islands	39 (35, 45)	183.5 (162.3, 207.9)	90 (79, 104)	199.6 (176.5, 225.7)	8.8 (4.7, 12.5)
Northern Mariana Islands	59 (51, 69)	176.0 (155.3, 198.6)	121 (105, 140)	186.3 (165.9, 210.7)	5.9 (2.0, 10.2)
Papua New Guinea	3520 (3094, 4019)	145.8 (129.2, 166.1)	9581 (8390, 11037)	154.1 (136.1, 175)	5.7 (1.0, 9.5)
Samoa	197 (173, 224)	201.2 (177.8, 228.6)	344 (304, 392)	216.7 (193.3, 245.1)	7.8 (3.8, 11.9)
Solomon Islands	286 (253, 326)	159.6 (141.9, 181.1)	760 (665, 869)	177.5 (156.9, 201.1)	11.2 (6.9, 15.5)
Tonga	127 (112, 145)	201.6 (178.7, 228.5)	196 (173, 223)	223.0 (197.5, 252.9)	10.6 (6.6, 15.2)
Vanuatu	130 (114, 147)	152.6 (135.4, 172.1)	337 (299, 382)	168.8 (150.1, 190.8)	10.6 (6.9, 14.9)
North Africa and Middle East	427925 (377899, 486724)	206.2 (182.8, 233.1)	1196655 (1056007, 1356537)	231.0 (204.7, 260.7)	12.0 (10.7, 13.3)
Afghanistan	14643 (12842, 16772)	191.7 (169.4, 217.4)	29349 (25121, 34232)	192.8 (169.9, 219.5)	0.6 (-3.4, 4.3)
Algeria	26491 (23286, 30119)	185.9 (163.3, 210.7)	83413 (73092, 95375)	218.7 (192.8, 248.0)	17.6 (13.7, 22.1)
Bahrain	648 (570, 740)	212.8 (188.0, 241.1)	4181 (3630, 4837)	238.2 (211.9, 269.4)	11.9 (7.5, 16.1)
Egypt	79114 (69843, 91133)	219.2 (193.7, 249.0)	191639 (168481, 218720)	249.8 (221.0, 281.9)	14.0 (9.5, 17.8)
Iran	72686 (63875, 82525)	223.3 (197.6, 253.4)	204731 (180924, 232594)	243.7 (215.9, 275.4)	9.1 (8.1, 10.2)
Iraq	20970 (18580, 23846)	225.9 (199.6, 255.9)	67564 (59162, 77244)	230.3 (202.5, 260.5)	2.0 (-2.0, 5.9)
Jordan	4031 (3534, 4619)	218.6 (192.8, 248.5)	20122 (17578, 23061)	248.5 (220.0, 281.1)	13.7 (9.4, 18.3)
Kuwait	2517 (2190, 2894)	228.6 (202.3, 258.6)	11239 (9734, 12984)	260.7 (230.5, 295.5)	14.0 (9.4, 18.1)
Lebanon	5073 (4475, 5775)	192.3 (169.8, 217.1)	14923 (13186, 17010)	218.4 (193.3, 247.6)	13.6 (9.4, 17.7)
Libya	5176 (4568, 5894)	224.2 (198.7, 253.3)	15654 (13613, 17986)	249.0 (220.1, 281.2)	11.1 (7.1, 14.9)
Morocco	30562 (26950, 34730)	187.0 (164.5, 212.5)	76670 (67559, 87577)	214.6 (189.4, 243.5)	14.8 (10.4, 18.7)
Palestine	2068 (1826, 2345)	211.0 (186.2, 239.2)	7090 (6198, 8070)	225.3 (199.0, 254.7)	6.8 (3.0, 10.9)
Oman	1861 (1633, 2133)	186.0 (164.1, 210.6)	8158 (7100, 9401)	237.2 (209.5, 267.6)	27.5 (22.6, 33.1)
Qatar	752 (643, 868)	251.3 (222.5, 283.4)	6290 (5398, 7285)	258.0 (228.0, 292.4)	2.7 (-1.9, 6.8)
Saudi Arabia	17995 (15767, 20580)	210.7 (185.6, 238.4)	76037 (65930, 87891)	250.2 (220.8, 283.7)	18.8 (14.6, 23.5)

Sudan	20341 (17979, 23106)	184.2 (162.6, 207.9)	48314 (42345, 55359)	209.1 (184.5, 238.6)	13.5 (9.1, 17.5)
Syria	13362 (11747, 15218)	208.3 (184.6, 236.1)	37060 (32610, 42226)	232.5 (206.1, 263.4)	11.6 (7.4, 16.1)
Tunisia	11052 (9760, 12579)	192.0 (170.2, 218.8)	27702 (24258, 31561)	210.6 (185.1, 238.7)	9.6 (5.9, 13.4)
Turkey	85406 (75155, 97342)	205.4 (181.3, 232.8)	209743 (184804, 238342)	228.3 (202.1, 258.9)	11.1 (7.4, 15.3)
United Arab Emirates	2290 (1953, 2688)	206.6 (182.4, 234.5)	25429 (21636, 29858)	231.0 (204.5, 260.2)	11.8 (7.4, 15.9)
Yemen	10610 (9324, 12149)	168.6 (148.8, 191.6)	30231 (26508, 34497)	183.2 (161.5, 207.8)	8.7 (4.5, 12.9)
South Asia	1297429 (1149318, 1469248)	173.7 (154.4, 195.5)	3021724 (2682869, 3399809)	192.8 (171.8, 216.6)	11.0 (9.6, 12.6)
Bangladesh	91771 (80176, 104830)	157.2 (138.3, 177.7)	244249 (215826, 277116)	176.4 (156.4, 199.9)	12.2 (8.5, 15.9)
Bhutan	564 (493, 650)	177.6 (156.7, 201.8)	1525 (1337, 1742)	198.2 (175.0, 224.1)	11.6 (7.7, 15.5)
India	1081535 (959466, 1220500)	177.0 (157.5, 199.1)	2461375 (2188504, 2773902)	195.7 (174.6, 220.3)	10.6 (9.0, 12.4)
Nepal	19234 (16847, 22065)	160.0 (141.2, 181.2)	46253 (40703, 52332)	190.0 (167.4, 214.1)	18.7 (14.8, 23.2)
Pakistan	104325 (90974, 118523)	160.6 (141.1, 182.0)	268322 (235198, 306510)	185.8 (164.6, 209.6)	15.7 (11.7, 20.2)
Southern sub-Saharan Africa	49362 (43897, 55690)	154.6 (137.3, 174.2)	107392 (95197, 121224)	169.1 (150.3, 189.6)	9.4 (8.1, 10.7)
Botswana	940 (826, 1068)	136.9 (120.8, 155.5)	2807 (2498, 3177)	162.4 (144.1, 182.4)	18.6 (14.5, 22.7)
Lesotho	1539 (1357, 1738)	139.3 (123.2, 157.2)	2103 (1861, 2383)	153.8 (136.3, 174.4)	10.4 (6.4, 14.3)
Namibia	998 (883, 1130)	125.0 (110.9, 141.6)	2274 (2009, 2567)	140.9 (124.4, 158.9)	12.8 (8.7, 16.9)
South Africa	38718 (34457, 43686)	161.3 (143.3, 181.7)	87349 (77405, 98440)	175.9 (156.1, 197.3)	9.1 (7.6, 10.7)
Swaziland	580 (511, 656)	155.3 (137.5, 174.5)	1144 (1012, 1289)	167.2 (148.1, 188.5)	7.6 (4.1, 11.3)
Zimbabwe	6587 (5818, 7467)	132.8 (117.2, 150.2)	11715 (10354, 13245)	138.9 (123.2, 156.4)	4.6 (1.2, 7.8)
Western sub-Saharan Africa	131904 (116711, 149329)	126.1 (111.5, 142.0)	314514 (277616, 357071)	137.5 (122.2, 155.0)	9.0 (6.9, 11.0)
Benin	2917 (2579, 3316)	127.2 (112.0, 144.0)	8876 (7823, 10066)	152.4 (134.5, 172.4)	19.8 (15.8, 24.3)
Burkina Faso	6064 (5349, 6923)	119.9 (106.1, 136.4)	14675 (12910, 16662)	135.1 (119.1, 152.9)	12.7 (8.8, 16.9)
Cameroon	7919 (6971, 9002)	144.5 (127.7, 163.7)	22721 (20050, 25767)	155.9 (137.8, 175.3)	7.9 (3.9, 12.1)
Cape Verde	267 (236, 303)	129.6 (114.5, 146.4)	676 (598, 767)	147.7 (130.9, 167.2)	14.0 (10.1, 17.9)
Chad	3716 (3282, 4195)	118.5 (104.5, 133.5)	8251 (7287, 9394)	124.1 (109.9, 140.8)	4.7 (0.9, 8.5)
Cote d'Ivoire	6804 (5956, 7750)	122.6 (108.2, 138.1)	18924 (16576, 21772)	138.0 (121.6, 156.8)	12.5 (8.7, 16.6)
The Gambia	576	128.9	1561	140.9	9.4

	(507, 657)	(114.2, 145.6)	(1375, 1778)	(124.3, 159.6)	(5.7, 13.4)
Ghana	9592 (8424, 10920)	121.5 (106.9, 137.5)	27531 (24220, 31420)	143.3 (126.7, 162.1)	18.0 (14.2, 21.9)
Guinea	4521 (3982, 5118)	122.1 (107.6, 138.1)	8159 (7213, 9248)	130.7 (115.6, 146.9)	7.0 (3.5, 10.5)
Guinea-Bissau	631 (555, 717)	129.4 (114.5, 146.6)	1365 (1204, 1570)	150.0 (132.7, 170.0)	15.9 (12.0, 19.9)
Liberia	1732 (1523, 1956)	139.0 (122.6, 157.2)	4000 (3527, 4533)	152.9 (135.5, 172.4)	10.0 (6.3, 13.8)
Mali	5750 (5050, 6549)	119.8 (105.6, 135.8)	13484 (11864, 15311)	135.8 (119.8, 153.7)	13.3 (9.6, 17.6)
Mauritania	1540 (1361, 1739)	134.9 (119.2, 152.0)	3622 (3201, 4101)	155.4 (137.1, 175.1)	15.2 (11.3, 19.1)
Niger	4375 (3848, 5005)	119.7 (105.6, 136.0)	11760 (10338, 13397)	127.9 (113.0, 145.2)	6.8 (2.9, 10.9)
Nigeria	65938 (58234, 74671)	127.1 (112.1, 143.5)	145228 (127879, 164952)	134.8 (119.0, 152.2)	6.0 (2.1, 9.6)
Sao Tome and Principe	90 (79, 102)	131.3 (115.7, 147.9)	183 (161, 208)	144.6 (127.1, 163.5)	10.1 (6.2, 14.6)
Senegal	4864 (4281, 5529)	128.1 (113.1, 145.2)	11783 (10428, 13410)	138.2 (121.8, 156.9)	7.9 (4.4, 11.3)
Sierra Leone	2687 (2374, 3042)	124.1 (109.7, 139.9)	5627 (4951, 6417)	134.5 (118.2, 152.0)	8.3 (5.0, 11.9)
Togo	1915 (1686, 2191)	119.7 (106.0, 136.1)	6084 (5340, 7018)	134.4 (118.8, 152.7)	12.3 (8.8, 15.7)
Eastern sub-Saharan Africa	115043 (101658, 130271)	125.3 (110.9, 141.4)	261138 (230917, 295952)	133.0 (117.6, 149.9)	6.1 (5.3, 7.2)
Burundi	3263 (2874, 3725)	123.4 (108.1, 139.7)	6683 (5898, 7614)	124.0 (109.9, 140.6)	0.5 (-2.9, 3.8)
Comoros	301 (265, 343)	125.7 (110.5, 142.5)	685 (605, 774)	130.2 (115.1, 147.3)	3.6 (0.0, 7.1)
Djibouti	264 (231, 303)	124.8 (109.8, 141.4)	1151 (1012, 1320)	148.3 (130.4, 167.7)	18.8 (15.0, 23.0)
Eritrea	1469 (1286, 1685)	116.9 (102.2, 132.3)	3717 (3255, 4238)	122.3 (108.1, 137.5)	4.7 (0.7, 8.9)
Ethiopia	30481 (26801, 34641)	123.3 (109.1, 138.9)	64268 (56761, 72960)	131.1 (115.7, 148.6)	6.3 (4.5, 8.0)
Kenya	12704 (11239, 14409)	126.9 (112.3, 143.3)	36463 (32167, 41335)	136.2 (120.5, 153.5)	7.3 (6.7, 8.1)
Madagascar	7237 (6354, 8226)	119.7 (105.7, 135.7)	16721 (14646, 19169)	122.3 (107.9, 139.2)	2.1 (-1.7, 5.6)
Malawi	6001 (5289, 6832)	125.2 (110.7, 142.1)	11514 (10179, 13060)	133.3 (117.4, 150.4)	6.5 (2.6, 10.0)
Mozambique	9399 (8293, 10675)	123.9 (109.5, 140.0)	18539 (16324, 21172)	133.2 (117.5, 151.4)	7.5 (3.9, 11.3)
Rwanda	4319 (3805, 4923)	124.0 (109.2, 141.1)	9385 (8270, 10720)	131.7 (116.1, 149.3)	6.2 (2.8, 10.0)
Somalia	4726 (4136, 5418)	130.7 (115.3, 147.8)	10756 (9449, 12254)	133.5 (118.2, 150.1)	2.2 (-1.3, 5.5)
South Sudan	4019 (3558, 4535)	137.8 (121.8, 155.3)	7337 (6463, 8355)	146.2 (129.2, 164.8)	6.1 (2.6, 9.5)
Tanzania	16734 (14777, 19104)	129.7 (114.4, 146.9)	40521 (35834, 46128)	139.4 (122.8, 157.2)	7.5 (3.8, 11.2)

Uganda	9543 (8431, 10862)	123.3 (108.7, 139.3)	22323 (19685, 25422)	131.5 (116.1, 148.8)	6.7 (3.1, 11.2)
Zambia	4525 (3982, 5178)	126.9 (112.1, 143.6)	10912 (9592, 12401)	131.9 (116.0, 149.0)	4.0 (0.5, 7.6)
Central sub-Saharan Africa	37695 (33088, 42868)	133.3 (117.7, 150.7)	89094 (78566, 101510)	135.9 (120.4, 153.2)	1.9 (-0.4, 4.4)
Angola	6818 (5987, 7775)	133.2 (117.8, 151.5)	21892 (19240, 25031)	154.4 (136.7, 174.8)	15.9 (12.2, 19.9)
Central African Republic	1858 (1626, 2130)	128.1 (113.2, 145.8)	3492 (3062, 4000)	127.4 (112.6, 144.4)	-0.6 (-4.0, 2.8)
Congo	1727 (1515, 1964)	135.6 (119.3, 153.2)	4755 (4177, 5412)	144.8 (128.0, 163.9)	6.8 (3.1, 10.4)
DR Congo	26085 (22787, 29677)	133.2 (117.1, 150.6)	55816 (49075, 63651)	128.4 (113.5, 145.1)	-3.6 (-6.7, -0.2)
Equatorial Guinea	333 (293, 378)	141.4 (124.7, 159.8)	1107 (976, 1255)	179.6 (158.8, 201.7)	27.0 (22.7, 32.0)
Gabon	874 (770, 989)	142.2 (125.6, 160.7)	2032 (1791, 2299)	162.6 (143.8, 182.8)	14.4 (10.9, 18.5)