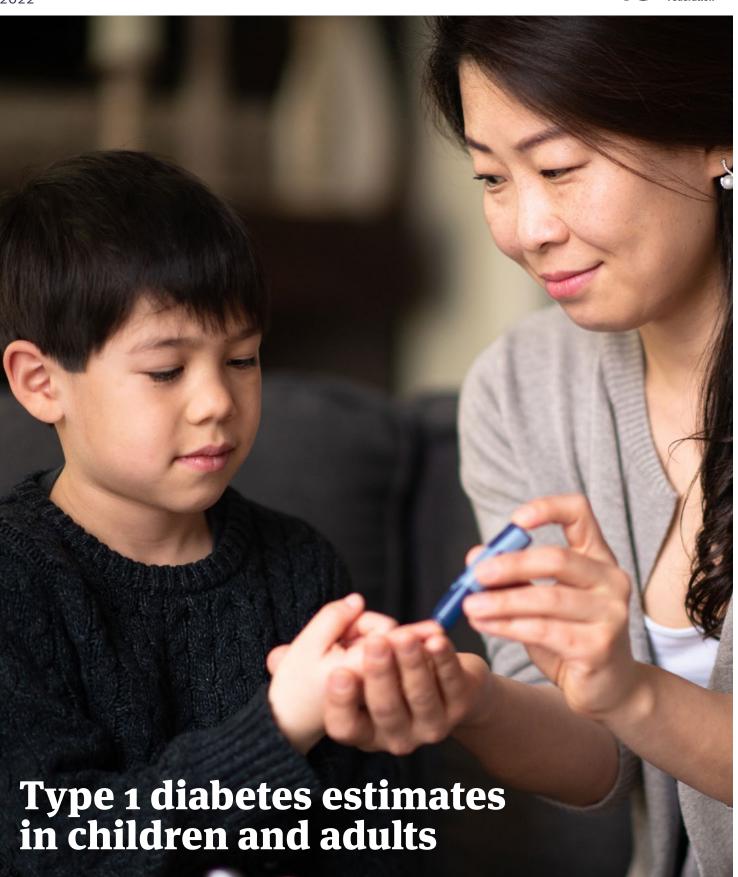
IDFATLAS REPORTS





2022





Acknowledgements

Type 1 diabetes numbers in children and adults

Authors:

Graham D Ogle 1, Fei Wang 1, Gabriel A Gregory 1 and Jayanthi Maniam 1

¹ T₁D Index consortium

Editorial Team:

Dianna J Magliano (Atlas Co-chair), Edward J Boyko (Atlas Co-chair), Irini Genitsaridi, Lorenzo Piemonte, Phil Riley, Paraskevi Salpea

Corporate sponsors









04

Introduction

05

Methodology

Findings

References

10

Appendix Table 1





Key messages

- In 2022, there were 8.75 million people living with type 1 diabetes globally
- 1.52 million of these people were under 20 years old
- The T₁D Index initiative will update detailed figures for all countries as time goes on

In the most recent editions of the Atlas, the number of people living with type 1 diabetes (T1D) across the globe has only been estimated for children and adolescents less than 20 years of age. This has been due to insufficient data available for adult populations. Furthermore, the prevalence estimate for those less than 20 years of age did not take into account potential changes in incidence and mortality over time.

The development of the Type 1 Diabetes Index (T1D Index) has now permitted more current and accurate estimates to be calculated for all ages across all countries. The T₁D Index is a joint initiative between JDRF, Life for a Child, IDF, and the International Society for Pediatric and Adolescent Diabetes (ISPAD). Global as well as per country estimates of the numbers of people with type 1 diabetes in 2021 were published recently.1



The T₁D Index utilises a Markov Model and machine learning techniques to estimate the number of people with T₁D globally and by individual country. It combines data on T1D incidence and mortality among those with T1D and those without T1D to estimate prevalence, incidence and life expectancy for those with T1D in all countries.

Contemporary childhood and adolescent T₁D incidence data were sourced from the publications cited in all previous editions of the Atlas as well as other papers identified on a recent literature search. Incidence data for children and adolescents less than 20 years of age were available for 97 countries. Incidence data was extrapolated for countries without in-country data, using the previously described Atlas methodology.2

Adult incidence data were derived from a recent systematic review³ and used to estimate incidence as a function of age, assuming a similar pattern of age of onset across countries. Estimates for countries in Sub-Saharan Africa were produced separately due to the later peak age of onset in that area.

Changes in incidence over time were then estimated for the period between 1985 and 2015, using the most representative data for each country, either from local data or extrapolated from regional or global averages. Incidence was assumed to be constant prior to 1985, unless there were earlier historical data, and to be increasing from 2015 into the future at the same rate as occurred in the final year of available data.

Age-standardised mortality over time was modelled using random forest regression of published T1D mortality data from 37 countries4 and other sources. The model previously used in the Atlas, which used Infant Mortality Rate alone, was extended to include other data, including healthcare resources as reflected by, for example, doctors per capita and some other known country metrics, as well as estimates of the mortality rate associated with the varying levels of T1D care across countries. 4-6 T1D levels of care and also diagnosis rates were estimated from a survey of expert clinicians in diabetes care.

Findings

In 2022, there were 8.75 million (95.0% uncertainty interval 8.4–9.1) individuals worldwide with T1D. One fifth (1.9 million) of these individuals live in low-income and lower-middle-income countries.

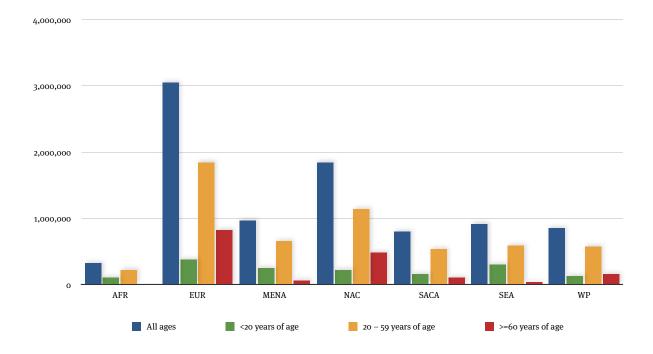
Of the total population with T1D in 2022, 1.52 million (17.0%) were younger than 20 years, 5.56 million (64.0%) were aged between 20 and 59 years, and 1.67 million (19.9%) were aged 60 years or older. This 2022 estimate of 1.52 million aged less than 20 years is higher than the 2021 Atlas estimate of 1.21 million due to the new methodology that includes estimates for increases in incidence over time for countries that do not have recent incidence data, as well as a more minor effect of population growth.

Figure 1 shows the number of people with T1D in each of these age groups by world region. The IDF Europe Region has the highest number of cases, followed by the IDF North America and Caribbean Regions

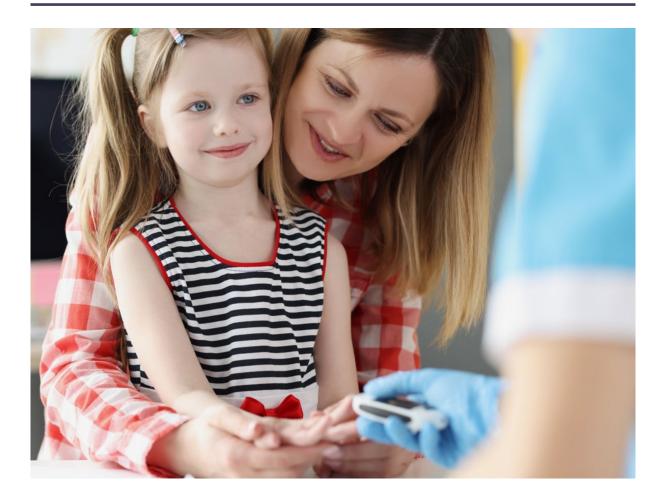
In 2022, there were 530,000 new cases of T1D diagnosed at all ages, with 201,000 of these less than 20 years of age.

In 2022, there were 530,000 new cases of T₁D diagnosed at all ages, with 201,000 of these less than 20 years of age.

Figure 1 – Number of individuals with diabetes in each IDF Region, by age (2022)







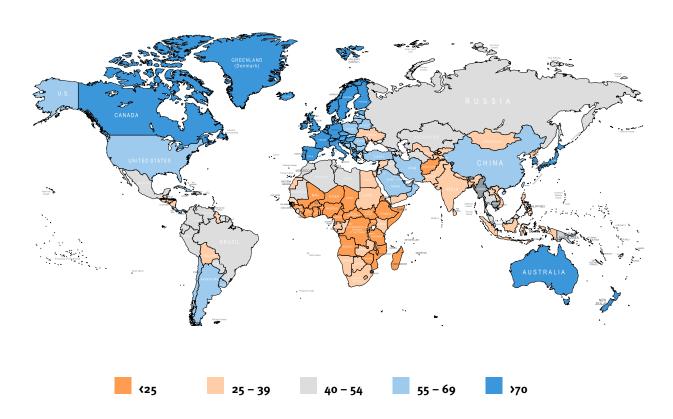
Appendix Table 1 shows the number of individuals with T₁D in each country. The ten countries with the highest number of prevalent cases at all ages were the United States of America (USA) (highest), India, Brazil, China, Germany, the United Kingdom (UK), Russia, Canada, Saudi Arabia, and Spain. The order was slightly different for the total number of prevalent cases of children and adolescents less than 20 years of age, with India (highest) then the USA, Brazil, China, Russia, Saudi Arabia, Algeria, the UK, Germany, Morocco, Canada, Ukraine and Turkey. The differences in rankings between the number of prevalent cases for all ages and those under 20 years reflect younger populations in countries such as India, Algeria, Morocco and Turkey, and also a higher mortality in non-high-income countries, which reduces the numbers of older adults with T1D.

There were an estimated 182,000 deaths due to T1D in 2022, among which, 42,000 of these deaths were in the South-East Asia (SEA) Region, 38,000 in Africa (AFR), 34,000 in Europe (EUR), 20,000 in each of North America and Caribbean (NAC) and Middle East and North Africa (MENA), 14,000 in Western Pacific (WP), and 13,000 in South and Central America (SACA).

Due to steady improvements in medical care and technology, there are now millions of adults living with T₁D who were diagnosed when they were children.

T1D has traditionally been thought of as a condition that primarily has its onset in, and predominantly affects, children and youth. Research and programmes, concerning earlier diagnosis, improved treatments and diabetes education, peer-support initiatives, and global advocacy are largely focused on this younger age group. However, due to steady improvements in medical care and technology, there are now millions of adults living with T1D who were diagnosed when they were children. Furthermore, adult onset of T1D is not uncommon. Indeed, the Index work found that, globally, in 2022, the mean age of a person with T1D is 40 years. In 2022, 329,000 (62%) of all new T1D cases occurred in people aged 20 years or older.





Map 1 – Total estimated life expectancy of a 10-year old child diagnosed with T1D in 2022.

Map 1 shows the estimated total average life expectancy for a 10-year old child diagnosed with T1D in 2022. Life expectancy ranges from up to 19 years (therefore nine years from diagnosis) in some Sub-Saharan African countries to over 75 years (therefore 65 years from diagnosis) in some high-income countries.

Of particular importance, the T1D Index estimated that approximately 35,000 of T1D deaths in 2022 were in non-diagnosed individuals less than 25 years of age, dying within 12 months of symptomatic onset. These young people develop symptoms of T1D passing too much urine, drinking excessive amounts of water, losing weight etc., and then develop diabetic ketoacidosis, which can be misdiagnosed as pneumonia, gastroenteritis, malaria, typhoid, appendicitis or another condition.7 Without a rapid diagnosis and appropriate treatment, the person will die quickly of diabetic ketoacidosis.

Awareness and education campaigns about the signs and symptoms of T1D have been successful at reducing the rate of diabetic ketoacidosis at the time of diagnosis in some high-income countries.8 The success of these initiatives suggests that similar campaigns, re-designed to not only reduce diabetic ketoacidosis rates but also to increase accurate diagnosis of T1D at clinical onset, may help to reduce deaths from non-diagnosis in lessresourced countries. In Mali, an awareness campaign involving distribution of posters to healthcare facilities was associated with a sharp increase in observed incidence.9 The TID Index consortium aims to foster similar initiatives.

Finally, the Index highlights the gaps particularly in mortality and prevalence information, but also in incidence information, particularly T1D incidence in adults. The difficulty of distinguishing T1D from type 2 diabetes in adults is also an area that requires further work.

Full data are available at the T1D Index website: www.t1dindex.org.



- 1 Gregory GA, Robinson TIGR, Linklater SE, Wang F, Colagiuri S, de Beaufort C et al. Global incidence, prevalence, and mortality of type 1 diabetes in 2021 with projection to 2040: a modelling study. Lancet Diabetes Endocrinol 2022; doi.org/10.1016/ S2213-8587(22)00218-2.
- 2 Ogle GD, James S, Dabelea D, Pihoker C, Svensson J, Maniam J et al. Global estimates of incidence of type 1 diabetes in children and adolescents: results from the International Diabetes Federation Atlas, 10th edition. Diabetes Res Clin Pract 2022; 183: 109083.
- 3 Harding JL, Wander PL, Zhang X, Li X, Karuranga S, Chen H et al. The incidence of adult-onset type 1 diabetes: a systematic review from 32 countries and regions. Diabetes Care 2022; 45: 994–100
- 4 Chan JCN, Lim L-L, Wareham NJ, Shaw JE, Orchard TJ, Zhang P et al. *The Lancet Commission on diabetes: using data to transform diabetes care and patient lives*. Lancet 2021; 396: 2019–82.
- 5 Ogle GD, von Oettingen JE, Middlehurst AC, Hanas R, Orchard T. Levels of type 1 diabetes care in children and adolescents for countries at varying resource levels. Pediatric Diabetes. 2019;20:95-98.
- **6** Gregory GA, Guo J, Klatman EL, Ahmadov GA, Besançon S, Ramaiya K et al. *Costs and outcomes of 'intermediate' versus 'minimal' care for youth-onset type 1 diabetes in six countries*. Pediatr Diabetes 2020;21:628-636.
- 7 Ogle GD, Middlehurst AC, Silink M. The IDF Life for a Child Program Index of diabetes care for children and youth. Pediatr Diabetes 2016: 17: 374–384.
- 8 Cherubini V, Marino M, Carle F, Zagaroli L, Bowers R, Gesuita R. Effectiveness of ketoacidosis prevention campaigns at diagnosis of type 1 diabetes: A systematic review and meta-analysis. Pediatr Diabetes 2021;175:108838.
- 9 Sandy JL, Besançon S, Sidibé AT, Minkailou M. Togo A, Ogle GD. Rapid increases in observed incidence and prevalence of Type 1 diabetes in children and youth in Mali, 2007–2016. Pediatric Diabetes 2021;2021:1-7. DOI: 10.1111/pedi.13191.



Table 1 – Number of individuals with diabetes in each country, by age (2022)

Country	Age <20 years	Age 20 - 59 years	Age >=60 years	Total
Afghanistan	5,487	4,370	120	9,964
Albania	723	2,790	898	4,406
Algeria	46,642	103,731	13,423	163,767
Angola	3,946	8,074	207	12,237
Antigua and Barbuda	26	87	13	126
Argentina	17,144	56,599	11,836	85,529
Armenia	774	2,334	542	3,649
Aruba	1	4	1	5
Australia	14,306	78,926	32,743	126,008
Austria	3,447	19,869	9,144	32,475
Azerbaijan	2,200	6,139	838	9,183
Bahamas	191	600	89	88o
Bahrain	331	1,817	132	2,281
Bangladesh	5,719	18,558	617	24,878
Barbados	108	401	116	624
Belarus	2,888	10,147	3,256	16,303
Belgium	4,575	25,778	12,291	42,637
Belize	39	108	9	157
Benin	1,101	2,488	86	3,675
Bhutan	151	308	16	475
Bolivia	1,056	1,591	131	2,779
Bosnia and Herzegovina	869	3,998	1,359	6,224
Botswana	148	755	43	946
Brazil	112,240	402,894	73,330	588,800
Brunei Darussalam	19	70	9	98
Bulgaria	3,176	14,278	6,114	23,556
Burkina Faso	349	777	19	1,146
Burundi	715	1,378	42	2,135
Cambodia	874	1,327	66	2,267
Cameroon	2,542	5,493	160	8,188
Canada	32,211	177,426	75,724	285,324
Cape Verde	43	238	9	291
Central African Republic	82	125	4	211
Chad	254	422	14	690
Channel Islands	95	667	201	962
Chile	6,295	24,157	6,396	36,874
China	66,040	318,949	63,452	448,480
Colombia	3,561	12,263	2,215	18,043
Comoros	112	198	6	316
Costa Rica	389	1,541	362	2,289
Cote d'Ivoire	2,500	5,147	164	7,804
Croatia	2,008	8,313	3,893	14,217
Cuba	1,155	6,122	2,070	9,348
Curaçao	2	5	2	9



Cyprus	401	2,611	1,028	4,040
Czech Republic	5,556	27,175	11,407	44,144
Democratic Republic of the Congo	5,811	12,283	423	18,534
Denmark	3,213	19,424	10,287	32,927
Djibouti	407	1,611	73	2,090
Dominican Republic	386	911	124	1,421
Ecuador	1,442	3,973	595	6,007
Egypt	14,029	23,991	1,121	39,133
El Salvador	557	1,143	113	1,813
Equatorial Guinea	127	485	12	623
Eritrea	1,985	4,355	132	6,468
Estonia	971	3,719	1,733	6,426
Eswatini	129	275	9	413
Ethiopia	4,227	15,310	478	19,998
Federated States of Micronesia	1	1	-	2
Fiji	37	77	7	121
Finland	6,230	38,903	24,557	69,685
France	24,884	112,754	64,467	202,160
French Guiana	219	503	63	784
French Polynesia	10	31	5	46
Gabon	196	757	36	988
Gambia	39	96	2	138
Georgia	1,239	2,775	468	4,483
Germany	40,390	252,997	138,120	431,313
Ghana	2,761	7,883	276	10,925
Greece	2,435	15,539	9,110	27,104
Grenada	53	155	22	231
Guadeloupe	155	473	179	807
Guam	1	3	1	5
Guatemala	1,960	4,378	362	6,702
Guinea	221	512	15	748
Guinea-Bissau	31	64	2	97
Guyana	10	18	2	30
Haiti	390	423	26	840
Honduras	997	2,052	119	3,166
Hong Kong	540	3,202	1,244	4,982
Hungary	4,594	23,033	9,485	37,087
Iceland	150	856	399	1,405
India	282,832	544,478	32,910	860,423
Indonesia	13,311	26,781	1,721	41,817
Iran	19,758	75,568	8,941	104,230
Iraq	12,373	26,080	1,414	39,875
Ireland	3,563	16,842	6,005	26,412
Israel	4,177	14,194	5,394	23,761
Italy	12,119	106,873	67,709	186,755
	12,119	100,8/3	0/,/09	100,/55



	Jamaica	428	1,452	217	2,098
Kazakhstan 1.243 3.472 512 5.731 Kenya 6.237 16.432 4.27 2.3096 Kiribati 6 7 - 13 Kuwait 5.907 6.6044 2.532 3.4544 Kyrgystan 480 950 47 1.477 Laos 412 661 25 1.038 Lebanon 660 3.760 687 4.895 Lebanon 660 3.760 687 4.895 Lebanon 660 3.770 687 4.895 Lebanon 640 3.760 687 4.895 Lebanon 75 4.24 1.6 2.1 640 Liberia 84 211 7 302 640 Libria 84 211 7 302 8.82 Lutembourg 22 1.667 537 4.47 Macco 51 3.09 85 445 Macco <th>Japan</th> <td>5,453</td> <td>43,285</td> <td>30,471</td> <td>79,226</td>	Japan	5,453	43,285	30,471	79,226
Kenya 6.337 16.432 4.77 23.096 Kiribati 6 7 - 13 Kuwait 5.907 26.044 2.592 34.544 Kyrgyzstan A80 950 47 1.477 Laos 412 601 25 1.038 Lavia 76 2.903 1.255 4.872 Lebanon 640 3.570 687 4.872 Lebanon 640 3.570 687 4.822 Lebanon 195 4.24 21 600 Libria 84 221 7 302 Lebanon 513 17.667 1.484 2.256 Libya 5.413 17.667 1.484 2.256 Libya 5.433 17.667 1.484 2.256 Libya 5.433 1.7667 1.484 2.245 Macao 51 309 85 4.465 Macao 51 309	Jordan	1,291	4,675	377	6,344
Kiribati 6 7 . 13 Kuwait 5,907 26,044 2,592 34,544 Kyrgyzstan 480 950 47 1,475 Latoia 412 601 25 1,038 Latvia 716 2,903 1,25 4,872 Lebanon 640 3,570 887 4,895 Lebaton 195 424 21 7 302 Librai 84 221 7 302 Libya 5,433 17,667 1,484 24,556 Lithuania 1,194 5,188 2,436 8,822 Licembourg 242 1,667 33 2,447 Macao 51 309 85 466 Maccolnia 489 2,137 569 3,194 Macadagascar 2,998 7,525 209 10,732 Malaiwi 2,238 4,196 97 8,534 Mallows 89 <th>Kazakhstan</th> <td>1,243</td> <td>3,472</td> <td>512</td> <td>5,231</td>	Kazakhstan	1,243	3,472	512	5,231
Kuwait 5,907 26,044 2,592 3,5544 Kyrgyzstan 480 950 47 1,477 Laos 412 601 25 1,038 Latvia 716 2,903 1,255 4,872 Lebanon 640 3,570 887 4,895 Lesotho 195 424 21 7 302 Liberia 84 221 7 302 2,455 Lithy 5,413 17,667 1,484 24,556 Lithy 5,188 2,436 8,822 Luxembourg 242 1,667 537 2,447 Macao 51 309 85 446 Macao 51 309 85 446 Mancedonia 489 2,137 569 3,194 Macao 7,082 7,582 209 10,732 Malasvi 2,338 4,196 97 6,534 Malasvi 2,339	Kenya	6,237	16,432	427	23,096
Kyrgyzstan 480 950 47 1.477 Laos 412 601 25 1.038 Latvia 716 2.903 1.255 4.872 Lebanon 640 3.570 687 4.889 Lebatho 195 4.24 21 6.00 Libra 84 211 7 302 Libra 8,43 17,667 1.484 24,556 Lithya 5,443 17,667 1.484 24,558 Lithya 5,443 17,667 1.484 24,558 Lithya 5,443 17,667 1.484 24,558 Lithya 1,467 5,188 2.436 8.822 Lucembourg 242 1,667 537 2.447 Maccol 51 309 85 4465 Maccolnia 489 2,137 569 3.732 Malaysia 1,490 4,901 687 7,082 Malaysia 1,490	Kiribati	6	7	-	13
Laos 412 601 25 1,038 Latvia 76 2,903 1,255 4,872 Lebanon 640 3,570 687 4,895 Lesotho 195 424 221 7 302 Libra 84 211 7 302 Libya 5,413 17,667 1,484 24,556 Lithuania 1,194 5,188 2,436 8,822 Luxembourg 242 1,667 537 2,447 Macao 51 309 85 446 Maccolonia 489 2,137 569 3,194 Madagascar 2,998 7,525 209 10,732 Malawi 2,238 4,156 97 6534 Malawi 2,238 4,156 97 6534 Maliwes 89 345 21 456 Mali 299 539 17 856 Maliwes 191 <th< th=""><th>Kuwait</th><td>5,907</td><td>26,044</td><td>2,592</td><td>34,544</td></th<>	Kuwait	5,907	26,044	2,592	34,544
Latvia 776 2,903 1,255 4,872 Lebanon 640 3,570 687 4,895 Lesotho 195 444 211 7 3025 Liboria 84 211 7 4025 Lithya 5,433 17,667 1,484 24,56 8,822 Lithuania 1,194 5,188 2,436 8,822 Luxembourg 242 1,667 537 2,447 Macao 51 309 85 445 Macadonia 489 2,137 569 3,194 Macadonia 489 2,137 569 3,194 Macadonia 489 2,137 569 3,194 Macadonia 4,99 2,138 4,196 97 6,534 Malawii 2,998 3,45 21 456 Maliwis 2,99 539 17 856 Maliwii 2,99 539 17 856	Kyrgyzstan	480	950	47	1,477
Lebanon 640 3.5770 687 4,895 Lesotho 195 424 21 640 Libria 84 211 7 302 Libya 5,413 17,667 1,484 24,556 Lithuania 1,194 5,188 4,243 8,562 Lithuania 1,194 5,188 4,243 8,562 Luxembourg 242 1,667 537 2,447 Macco 51 309 85 445 Maccohal 489 2,137 569 3,194 Madaguscar 2,998 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malidwe 89 345 21 456 Malidwes 89 345 21 456 Malidwes 89 345 21 456 Malidwes 89 345 22 456 Malidwes 109 33	Laos	412	601	25	1,038
Lesotho 195 4,24 21 6,00 Libria 84 211 7 302 Libya 5,413 17,667 1,484 24,556 Lithuania 1,194 5,188 2,436 8,822 Luxembourg 1242 1,667 537 2,447 Macao 51 309 85 445 Macedonia 489 2,137 569 3,194 Madagascar 2,998 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malaysia 1,490 4,991 687 7,082 Malit 299 539 17 856 Malit 399 539 17 856 Malit 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 802 Mayotte 41 89	Latvia	716	2,903	1,255	4,872
Liberia 84 211 7 302 Libya 5,413 17,667 1,484 24,556 Lithuania 1,194 5,888 2,436 8,822 Luxembourg 242 1,667 537 2,447 Macao 51 309 85 446 Maccolnia 489 2,137 569 3,194 Madayasia 1,490 4,951 687 7,653 Mallawi 2,238 4,196 97 6,534 Malit 299 539 17 866 Malit 299 539 17 866 Maltia 191 1,471 835 2,499 Martinique 124 453 205 781 Maurituta 190 69,4 193 3 1,838 Maurituta 100 60,4 98 802 Mayotte 41 89 3 133 Mexico 10,971	Lebanon	640	3,570	687	4,895
Libya 5,413 17,667 1,484 24,556 Lithuania 1,194 5,188 2,436 8,822 Luxembourg 242 1,667 537 2,447 Macao 51 309 85 446 Macedonia 489 2,137 569 3,194 Macadonia 489 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malaysia 1,490 4,901 687 7,082 Maldives 89 346 21 456 Mali 299 539 17 856 Mali 299 539 17 856 Mali 211 4,569 Martinique 124 463 205 788 Mauritania 444 1,355 38 188 Mauritius 100 604 98 802 Mayotte 41 89 3 13 Mavitius 10,971 69,163 9,702 89,834 Moldova 1,467 4,763 9,702 6,909 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 0,13,46 Molcambique 3,662 6,492 179 0,13,46 Moromanique 3,662 6,492 179 0,13,46 Moromanique 3,662 6,492 179 0,13,46 Moromanique 3,662 6,492 179 0,13,46 Moroco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 0,13,46 Moromanique 3,662 6,492 179 0,13,48 Moromanique 3,662 6,492 179 0,13,	Lesotho	195	424	21	640
Lithuania 1.194 5.188 2.436 8.822 Luxembourg 242 1.667 537 2.447 Macao 51 309 85 445 Maccolnia 489 2.137 569 3.194 Madagascar 2.998 7.525 209 10.732 Malawi 2.238 4.196 97 6.534 Malis 2.998 345 21 456 Mali 2.99 339 17 856 Malti 2.99 539 17 856 Malta 191 1.471 835 2.499 Martinique 124 453 205 781 Mauritania 444 1.355 38 1.838 Mauritania 444 1.355 38 1.838 Mauritania 444 1.355 38 1.838 Mucritania 444 1.353 4.73 2.69 Mayotte 41 8	Liberia	84	211	7	302
Luxembourg 242 1,667 537 2,447 Macao 51 309 85 445 Macdonia 489 2,137 569 3,194 Madagascar 2,998 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malawi 2,238 4,196 97 6,534 Maliwis 89 345 22 456 Mali 299 539 17 856 Mali 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritius 100 604 98 3 1,838 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 4	Libya	5,413	17,667	1,484	24,556
Macao 51 309 85 4485 Macedonia 489 2,137 569 3,194 Madagascar 2,998 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malaysia 1,490 4,901 687 7,082 Malit 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 1,838 Mauritius 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Molodova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Monoteco 37,194 7,876 8,968 12,991 Mozambique 3,662	Lithuania	1,194	5,188	2,436	8,822
Macedonia 489 2,137 569 3,194 Madagascar 2,998 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malaysia 1,490 4,901 687 7,082 Maldives 89 3,35 21 456 Mali 299 539 17 856 Malia 191 1,471 835 2,499 Martinique 192 4,533 205 7,81 Mauritania 444 1,335 38 1,838 Mauritus 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 37,14 7,876 8,968 124,911 Mozambique 3,662	Luxembourg	242	1,667	537	2,447
Madagascar 2,998 7,525 209 10,732 Malawi 2,238 4,196 97 6,534 Malaysia 1,490 4,901 687 7,082 Mali 299 539 17 856 Mali 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 78 Mauritania 444 1,355 38 1,838 Mavitius 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,1	Macao	51	309	85	445
Malawi 2,238 4,196 97 6,534 Malaysia 1,490 4,991 687 7,082 Maldives 89 345 21 456 Mali 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 1,838 Mauritus 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myamibia 273 <t< th=""><th>Macedonia</th><td>489</td><td>2,137</td><td>569</td><td>3,194</td></t<>	Macedonia	489	2,137	569	3,194
Malaysia 1,490 4,901 687 7,082 Maldives 89 345 21 456 Mali 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 1,838 Mauritus 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morecco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myammar 2,569 4,162 262 6,984 Nepal 6,641 <	Madagascar	2,998	7,525	209	10,732
Maldives 89 345 21 456 Mali 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 1,838 Mauritus 100 664 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Nembia 273 980 40 1,293 Nepal 6,641 10,9	Malawi	2,238	4,196	97	6,534
Mali 299 539 17 856 Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 1,838 Mauritus 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Nembia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 New Caledonia 10	Malaysia	1,490	4,901	687	7,082
Malta 191 1,471 835 2,499 Martinique 124 453 205 781 Mauritania 444 1,355 38 1,838 Mauritius 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Nepal 6,641 10,988 454 18,094 Neterlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand	Maldives	89	345	21	456
Martinique 124 453 205 781 Mauritania 4444 1,355 38 1,838 Mauritius 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua	Mali	299	539	17	856
Mauritania 4444 1,355 38 1,838 Mauritius 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Mortecco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger	Malta	191	1,471	835	2,499
Mauritius 100 604 98 802 Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Mortecco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria	Martinique	124	453	205	781
Mayotte 41 89 3 133 Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Mauritania	444	1,355	38	1,838
Mexico 10,971 69,163 9,702 89,834 Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035	Mauritius	100	604	98	802
Moldova 1,467 4,775 511 6,750 Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Mayotte	41	89	3	133
Mongolia 222 457 20 699 Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Nemalia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Mexico	10,971	69,163	9,702	89,834
Montenegro 381 1,383 437 2,201 Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Moldova	1,467	4,775	511	6,750
Morocco 37,194 78,786 8,968 124,911 Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Mongolia	222	457	20	699
Mozambique 3,662 6,492 179 10,346 Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Montenegro	381	1,383	437	2,201
Myanmar 2,569 4,162 262 6,984 Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Morocco	37,194	78,786	8,968	124,911
Namibia 273 980 40 1,293 Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Mozambique	3,662	6,492	179	10,346
Nepal 6,641 10,988 454 18,094 Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Myanmar	2,569	4,162	262	6,984
Netherlands 7,716 47,522 25,000 80,220 New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Namibia	273	980	40	1,293
New Caledonia 10 33 6 49 New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Nepal	6,641	10,988	454	18,094
New Zealand 2,244 11,527 4,358 18,126 Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Netherlands	7,716	47,522	25,000	80,220
Nicaragua 618 1,334 85 2,039 Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	New Caledonia	10	33	6	49
Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	New Zealand	2,244	11,527	4,358	18,126
Niger 410 747 21 1,179 Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Nicaragua	618	1,334		2,039
Nigeria 17,670 32,125 1,200 51,035 North Korea 2,537 7,661 609 10,808	Niger	410		21	
North Korea 2,537 7,661 609 10,808	Nigeria	17,670		1,200	51,035
	North Korea	2,537		609	
	Norway			11,982	41,344





Oman	1,054	5,074	258	6,386
Pakistan	7,927	11,449	456	19,851
Palestine	692	1,745	51	2,489
Panama	404	1,146	205	1,755
Papua New Guinea	65	74	3	142
Paraguay	411	1,081	128	1,620
Peru	1,158	4,008	633	5,798
Philippines	6,100	9,788	559	16,443
Poland	15,220	74,921	29,942	119,995
Portugal	3,312	22,770	12,419	38,515
Puerto Rico	2,643	8,981	3,752	15,384
Qatar	1,543	17,621	1,177	20,340
Republic of Congo	557	1,319	43	1,917
Réunion	84	300	32	415
Romania	7,059	27,517	8,575	43,174
Russia	58,338	213,345	65,267	336,901
Rwanda	872	2,692	89	3,651
Samoa	10	16	1	28
Sao Tome and Principe	24	67	2	93
Saudi Arabia	49,118	177,957	14,202	241,348
Senegal	1,706	4,410	126	6,245
Serbia	3,387	15,026	4,952	23,377
Seychelles	9	46	6	60
Sierra Leone	118	210	7	335
Singapore	564	4,131	1,489	6,187
Slovakia	3,102	13,911	4,535	21,545
Slovenia	817	3,966	1,774	6,559
Solomon Islands	6	7	-	13
Somalia	7,821	12,920	440	21,182
South Africa	5,342	24,670	1,536	31,536
South Korea	3,626	23,246	8,267	35,128
South Sudan	3,954	4,134	174	8,261
Spain	17,245	119,883	69,651	206,944
Sri Lanka	3,971	9,021	1,089	14,094
St Lucia	72	266	35	373
St Vincent and the Grenadines	53	153	24	229
Sudan	17,886	31,342	1,188	50,447
Suriname	7	18	2	28
Sweden	10,283	57,728	31,308	99,411
Switzerland	2,226	15,983	8,432	26,642
Syria	2,052	5,043	235	7,324
Taiwan	2,012	14,904	4,882	21,802
Tajikistan	1,541	1,968	73	3,581
Tanzania	6,915	14,955	411	22,263
Thailand	2,196	7,415	1,807	11,408



Timor L'Este	86	108	4	199
Togo	131	304	9	444
Tonga	5	8	1	14
Trinidad and Tobago	590	1,991	380	2,961
Tunisia	7,307	20,519	2,148	29,959
Turkey	29,000	96,478	17,919	143,396
Turkmenistan	2,406	5,930	439	8,774
Uganda	5,554	10,327	216	16,087
Ukraine	32,093	81,872	14,688	128,701
United Arab Emirates	1,560	11,188	517	13,263
United Kingdom	42,048	253,055	117,927	413,042
United States	170,408	880,937	397,447	1,447,298
United States Virgin Islands	49	162	85	296
Uruguay	1,578	7,027	1,939	10,546
Uzbekistan	4,368	8,376	478	13,215
Vanuatu	16	22	1	39
Venezuela	363	887	138	1,387
Viet Nam	4,061	9,897	839	14,780
Western Sahara	7	45	1	54
Yemen	7,109	8,991	226	16,313
Zambia	2,279	4,908	113	7,299
Zimbabwe	1,741	3,167	95	5,000



