

# GBD PROFILE: TOGO

## GLOBAL BURDEN OF DISEASES, INJURIES, AND RISK FACTORS STUDY 2010

The Global Burden of Disease Study 2010 (GBD 2010) is a collaborative project of nearly 500 researchers in 50 countries led by the Institute for Health Metrics and Evaluation (IHME) at the University of Washington. It is the largest systematic scientific effort in history to quantify levels and trends of health loss due to diseases, injuries, and risk factors. GBD serves as a global public good to inform evidence-based policymaking and health systems design.

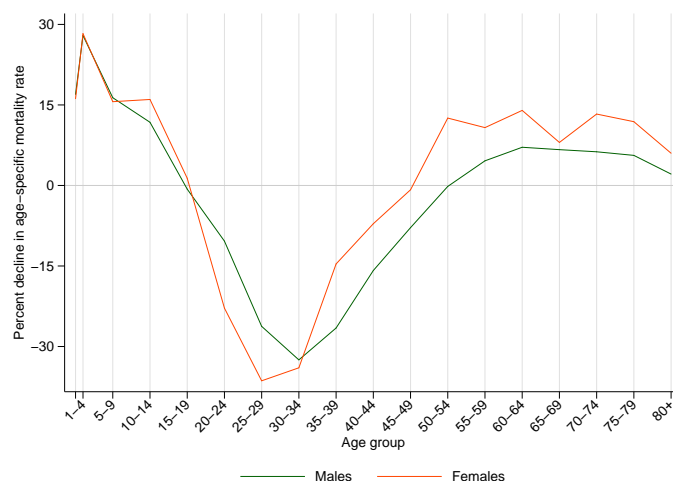
### PROFILE OVERVIEW

- In terms of the number of years of life lost (YLLs) due to premature death in Togo, malaria, lower respiratory infections, and HIV/AIDS were the highest ranking causes in 2010.
- Of the 25 most important causes of burden, as measured by disability-adjusted life years (DALYs), syphilis showed the largest decrease, falling by 24% from 1990 to 2010.
- The leading risk factor in Togo is childhood underweight.

### ALL-CAUSE MORTALITY RATE

- This chart shows the change in mortality rate at every age range. The points above 0 on the chart indicate positive declines in the all-cause mortality rate, while points below 0 indicate an increase in mortality rate between 1990 and 2010.
- The greatest reductions in all-cause mortality rate were experienced by females aged 1-4 years (28%). Females aged 25-29 years saw the largest increase in mortality rate (36%).

Percent decline in age-specific mortality rate by sex from 1990-2010 in Togo



### CAUSES OF PREMATURE DEATH

Years of life lost (YLLs) quantify premature mortality by weighting younger deaths more than older deaths.

Ranks for top 25 causes of YLLs 1990-2010, Togo

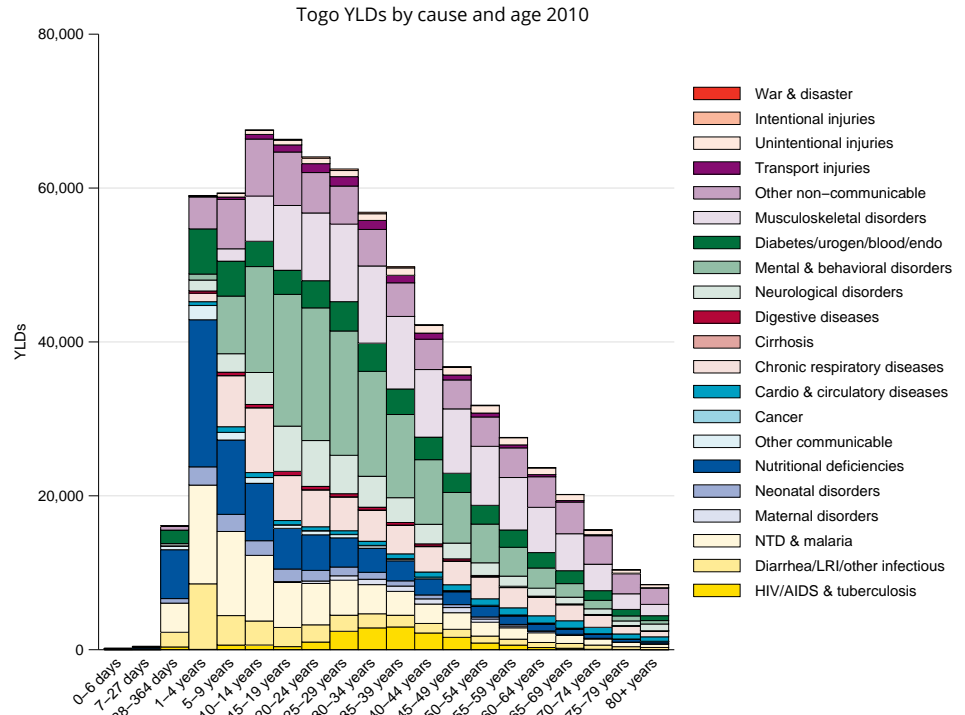
# YLLs in thousands (% of total)	Rank and disorder 1990	Rank and disorder 2010	# YLLs in thousands (% of total)	% change
360 (14.1%)	1 Malaria	1 Malaria	551 (17.5%)	54
304 (12.0%)	2 Diarrheal diseases	2 Lower respiratory infections	314 (10.0%)	8
288 (11.3%)	3 Lower respiratory infections	3 HIV/AIDS	277 (8.9%)	604
137 (5.4%)	4 Protein-energy malnutrition	4 Diarrheal diseases	263 (8.4%)	-15
115 (4.5%)	5 Preterm birth complications	5 Neonatal sepsis	147 (4.7%)	35
122 (4.8%)	6 Measles	6 Preterm birth complications	132 (4.2%)	15
109 (4.3%)	7 Neonatal sepsis	7 Protein-energy malnutrition	124 (4.0%)	-9
97 (3.8%)	8 Meningitis	8 Meningitis	121 (3.9%)	24
73 (2.9%)	9 Neonatal encephalopathy	9 Neonatal encephalopathy	92 (2.9%)	25
57 (2.2%)	10 Syphilis	10 Road injury	78 (2.5%)	68
48 (1.9%)	11 Stroke	11 Stroke	65 (2.1%)	35
48 (1.9%)	12 Tuberculosis	12 Tuberculosis	62 (2.0%)	30
47 (1.9%)	13 Road injury	13 Congenital anomalies	51 (1.7%)	31
40 (1.6%)	14 HIV/AIDS	14 Ischemic heart disease	45 (1.4%)	54
39 (1.5%)	15 Congenital anomalies	15 Syphilis	42 (1.4%)	-24
30 (1.2%)	16 Maternal disorders	16 Epilepsy	42 (1.3%)	53
29 (1.2%)	17 Ischemic heart disease	17 Maternal disorders	30 (1.0%)	-1
28 (1.1%)	18 Epilepsy	18 Cirrhosis	30 (1.0%)	75
25 (1.0%)	19 Iron-deficiency anemia	19 Fire	29 (0.9%)	30
22 (0.9%)	20 Fire	20 Measles	30 (1.0%)	-75
20 (0.8%)	21 Falls	21 Diabetes	24 (0.8%)	108
17 (0.7%)	22 Cirrhosis	22 Falls	23 (0.7%)	21
18 (0.7%)	23 Tetanus	23 Iron-deficiency anemia	21 (0.7%)	-18
15 (0.6%)	24 COPD	24 Interpersonal violence	21 (0.7%)	46
14 (0.6%)	25 Interpersonal violence	25 Liver cancer	16 (0.5%)	19
	26 Liver cancer	30 COPD		
	28 Diabetes	42 Tetanus		

This chart shows the change in the top 25 causes of YLLs due to premature mortality from 1990 to 2010. Solid lines indicate a cause has moved up in rank or stayed the same. Broken lines indicate a cause has moved down in rank. The causes are color coded by blue for non-communicable diseases, green for injuries, and red for communicable, maternal, neonatal, and nutritional causes of death.

## YEARS LIVED WITH DISABILITY (YLDs)

Years lived with disability (YLDs) are estimated by weighting the prevalence of different conditions based on severity. The top five leading causes of YLDs in Togo are iron-deficiency anemia, major depressive disorder, low back pain, malaria, and chronic obstructive pulmonary disease.

The size of the colored portion in each bar represents the number of YLDs attributable to each cause. The height of each bar shows which age groups had the most YLDs in 2010. The causes are aggregated. For example, musculoskeletal disorders include low back pain and neck pain.

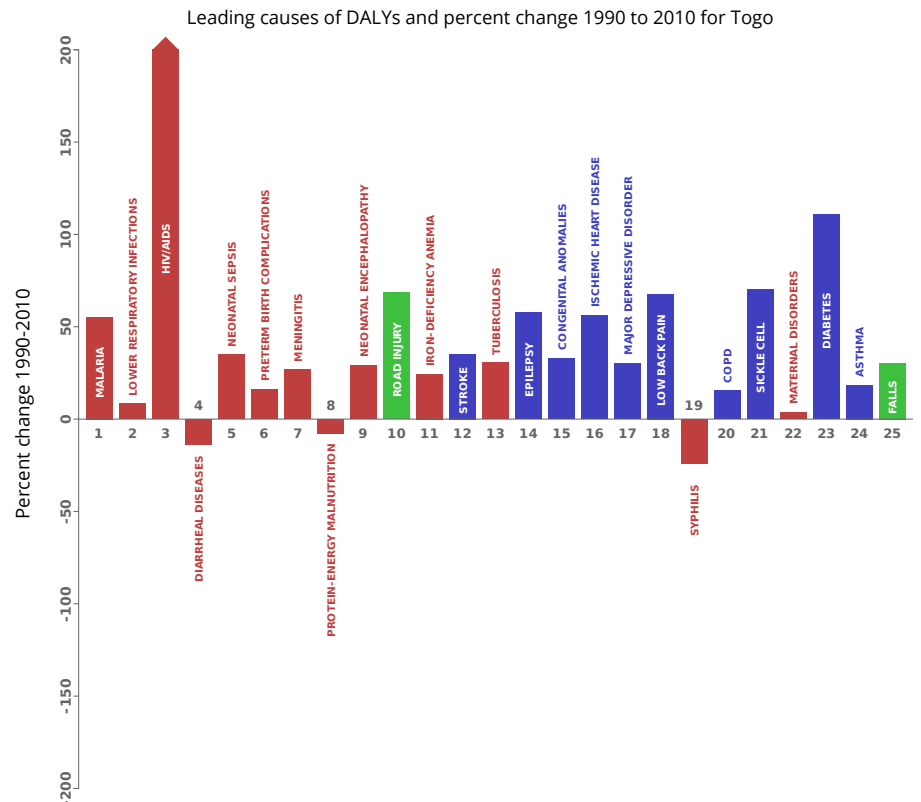


## DISABILITY-ADJUSTED LIFE YEARS (DALYs)

Disability-adjusted life years (DALYs) quantify both premature mortality (YLLs) and disability (YLDs) within a population. In Togo, the top three causes of DALYs in 2010 were malaria, lower respiratory infections, and HIV/AIDS. Two causes that appeared in the 10 leading causes of DALYs in 2010 and not 1990 were HIV/AIDS and road injury.

The top 25 causes of DALYs are ranked from left to right in order of the number of DALYs they contributed in 2010. Bars going up show the percent by which DALYs have increased since 1990. Bars going down show the percent by which DALYs have decreased. Globally, non-communicable diseases and injuries are generally on the rise, while communicable, maternal, neonatal, and nutritional causes of DALYs are generally on the decline.

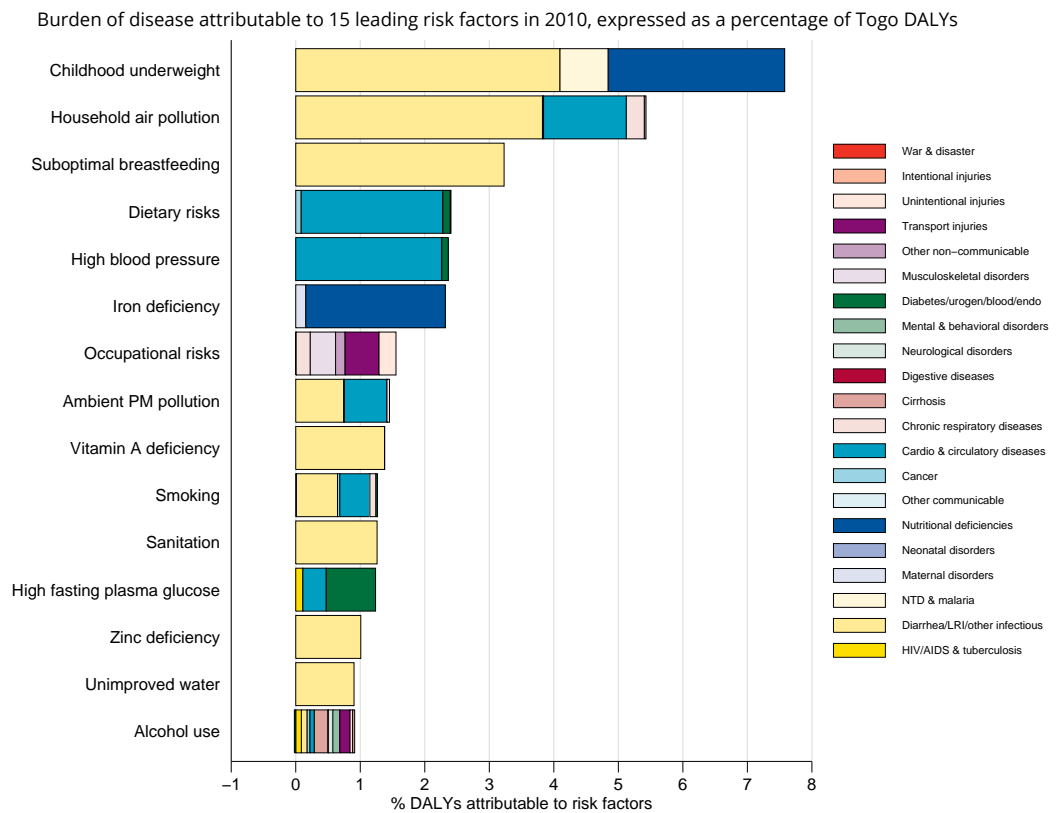
- Communicable, maternal, neonatal, and nutritional
- Non-communicable
- Injuries



## RISK FACTORS

Overall, the three risk factors that account for the most disease burden in Togo are childhood underweight, household air pollution from solid fuels, and suboptimal breastfeeding. The leading risk factors for children under 5 and adults aged 15-49 years were childhood underweight and occupational risks, respectively, in 2010.

The graph shows the top 15 risk factors for Togo. The colored portion of each bar represents the specific diseases attributable to that risk factor while bar size represents the percentage of DALYs linked to specific risk factors.



## COUNTRY BENCHMARKING OF BURDEN OF DISEASE

Understanding the relative performance of Togo against other comparator countries provides key insight into public health successes and areas where Togo might be falling behind. The table identifies Togo's rank across 14 other comparator countries, selected and ordered by income per capita, for five metrics of interest, with 1 indicating the best rank and 15 indicating the worst rank.

- Age-standardized rates are used to make meaningful comparisons across time by adjusting for changes in population size and age structure.
- Life expectancy incorporates mortality, and health-adjusted life expectancy further incorporates years lived in less than ideal health.
- In 2010, Togo ranked 4th for age-standardized death rate and 6th for age-standardized YLL rate.

Age-standardized death rates, YLL rates, YLD rates, and life expectancy at birth and health-adjusted life expectancy at birth for 1990 and 2010, both sexes combined																				
Country	Age-standardized death rate (per 100,000)				Age-standardized YLL rate (per 100,000)				Age-standardized YLD rate (per 100,000)				Life expectancy at birth				Health-adjusted life expectancy at birth			
	1990		2010		1990		2010		1990		2010		1990		2010		1990		2010	
	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	LE	Rank	LE	Rank	HALE	Rank	HALE	Rank
Mali	1,726	8	1,331	7	78,963	12	53,703	10	14,609	6	13,991	5	48.7	13	57.3	10	41.1	11	48.6	9
Guinea	1,508	3	1,233	5	69,094	6	48,350	7	14,811	8	14,194	8	52.1	5	59.4	7	43.7	5	50.2	7
Myanmar	1,640	5	1,185	3	55,134	2	36,251	2	13,542	1	11,974	1	56.5	2	63.9	2	48.6	2	55.6	1
Rwanda	2,000	13	1,062	1	76,083	10	35,591	1	15,064	9	13,895	3	49.7	10	64.6	1	42.3	9	54.8	2
Guinea-Bissau	1,603	4	1,391	10	72,398	8	55,214	11	14,670	7	14,148	7	50.8	8	56.6	11	42.8	7	48	10
Afghanistan	1,931	12	1,668	12	68,958	5	52,078	9	17,727	15	17,252	15	51.9	6	57.7	9	42.4	8	47.3	12
Madagascar	1,451	2	1,156	2	56,586	3	37,200	3	14,116	3	14,145	6	56.1	3	63.6	3	47.6	3	53.8	3
<b>Togo</b>	<b>1,282</b>	<b>1</b>	<b>1,199</b>	<b>4</b>	<b>51,184</b>	<b>1</b>	<b>46,594</b>	<b>6</b>	<b>14,577</b>	<b>5</b>	<b>13,973</b>	<b>4</b>	<b>58.3</b>	<b>1</b>	<b>60.2</b>	<b>6</b>	<b>49.1</b>	<b>1</b>	<b>51</b>	<b>6</b>
Mozambique	1,659	6	1,725	13	74,370	9	67,547	14	15,342	12	14,841	12	50	9	52.5	14	41.9	10	44.5	14
Sierra Leone	1,682	7	1,347	8	78,271	11	49,641	8	15,322	11	15,221	14	48.9	11	58.6	8	40.9	13	49.1	8
Ethiopia	2,152	15	1,292	6	86,420	15	43,719	4	13,713	2	12,723	2	46.7	15	60.9	4	40.2	15	52.5	4
Malawi	1,768	10	1,730	14	79,007	13	66,486	13	15,082	10	14,549	10	48.7	12	52.9	13	41	12	45	13
Central African Republic	2,131	14	2,408	15	81,026	14	90,581	15	15,696	14	15,022	13	48.3	14	46.2	15	40.8	14	39.5	15
Eritrea	1,807	11	1,353	9	67,111	4	44,346	5	15,508	13	14,614	11	52.4	4	60.6	5	44	4	51.2	5
Somalia	1,738	9	1,606	11	70,184	7	57,208	12	14,350	4	14,546	9	51.3	7	55.8	12	43.6	6	47.4	11

## COUNTRY BENCHMARKING OF BURDEN OF DISEASE, CONTINUED

This figure shows the rank of Togo relative to the same comparator countries for the leading causes of DALYs in 1990 (top) and 2010 (bottom).

- The columns are ordered by the absolute number of DALYs in Togo for that particular year, with greatest burden on the left.
- The numbers indicate the rank across countries for each cause in terms of age-standardized DALY rates, with 1 as the best performance and 15 as the worst.

Ranking of leading age-standardized rates of disability-adjusted life years (DALYs) relative to comparator countries in 1990																									
Country	Malaria	Diarrheal diseases	Lower respiratory infections	Protein-energy malnutrition	Preterm birth complications	Neonatal sepsis	Measles	Meningitis	Neonatal encephalopathy	Iron-deficiency anemia	Syphilis	Tuberculosis	Road injury	Stroke	HIV/AIDS	Congenital anomalies	Major depressive disorder	Epilepsy	Maternal disorders	COPD	Ischemic heart disease	Asthma	Low back pain	Falls	Fire
Mali	14	11	3	11	14	15	14	11	11	14	12	7	4	6	11	1	6	14	12	12	7	14	1	14	13
Guinea	11	4	14	5	8	11	10	12	15	12	11	3	3	4	10	5	4	12	11	3	4	13	7	12	7
Myanmar	5	7	1	1	5	1	4	1	12	3	2	13	1	11	1	12	7	2	1	14	8	15	2	11	1
Rwanda	8	5	7	7	6	7	1	3	7	1	6	10	15	13	15	7	14	6	10	11	12	4	12	6	9
Guinea-Bissau	12	9	10	8	12	13	12	13	9	13	10	5	12	5	6	8	5	13	8	8	6	10	6	13	6
Afghanistan	1	2	13	2	3	2	2	5	1	2	1	4	14	15	2	14	15	1	5	4	15	12	15	9	8
Madagascar	3	6	4	10	10	8	9	2	2	4	14	1	8	14	7	11	2	7	3	7	13	3	11	1	4
<b>Togo</b>	<b>6</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>7</b>	<b>12</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>12</b>	<b>3</b>	<b>9</b>	<b>10</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>2</b>
Mozambique	15	8	9	4	11	14	11	9	13	8	15	11	2	1	4	4	11	11	6	1	1	1	9	8	12
Sierra Leone	13	3	12	15	15	9	7	14	14	15	5	6	6	7	3	9	3	15	4	9	5	7	8	15	5
Ethiopia	4	10	15	6	13	5	15	10	5	6	7	14	11	2	8	10	1	4	14	13	2	11	3	5	15
Malawi	10	15	5	9	2	10	3	4	10	7	4	8	9	12	14	15	8	5	7	5	11	2	4	2	14
Central African Republic	9	13	6	14	9	3	6	15	4	11	13	15	13	10	13	13	13	3	9	15	14	9	5	7	3
Eritrea	2	14	8	12	1	4	13	6	3	10	8	12	5	9	5	2	12	8	15	10	10	5	13	3	10
Somalia	7	12	11	13	4	6	5	8	6	5	3	9	10	8	9	6	10	9	13	6	9	6	14	4	11
Ranking of leading age-standardized rates of disability-adjusted life years (DALYs) relative to comparator countries in 2010																									
Country	Malaria	Lower respiratory infections	HIV/AIDS	Diarrheal diseases	Neonatal sepsis	Preterm birth complications	Meningitis	Protein-energy malnutrition	Neonatal encephalopathy	Road injury	Iron-deficiency anemia	Stroke	Tuberculosis	Epilepsy	Congenital anomalies	Ischemic heart disease	Major depressive disorder	Low back pain	Syphilis	COPD	Sickle cell	Maternal disorders	Diabetes	Asthma	Falls
Mali	15	2	7	9	15	14	12	12	13	5	14	5	4	14	1	10	10	1	12	13	10	8	11	12	9
Guinea	12	13	5	3	11	8	13	6	15	3	10	4	3	10	9	8	3	8	10	3	12	10	6	10	7
Myanmar	2	4	6	5	1	4	1	1	11	2	1	12	8	2	14	6	7	2	2	14	1	1	12	15	15
Rwanda	6	1	9	1	6	5	3	3	7	7	2	6	7	4	2	3	14	10	6	2	5	2	4	1	2
Guinea-Bissau	14	9	10	13	13	10	14	10	10	11	12	7	6	15	11	11	2	9	8	6	11	9	13	6	14
Afghanistan	1	10	1	2	2	11	5	2	1	14	3	15	5	1	13	15	15	15	1	12	4	11	15	13	11
Madagascar	5	3	2	6	9	6	2	7	2	1	6	14	1	6	3	13	6	12	13	10	9	5	1	7	1
<b>Togo</b>	<b>9</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>14</b>	<b>9</b>	<b>10</b>	<b>5</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>13</b>	<b>10</b>	<b>5</b>	<b>4</b>	<b>7</b>	<b>11</b>	<b>1</b>	<b>14</b>	<b>3</b>	<b>7</b>	<b>9</b>	<b>8</b>
Mozambique	13	5	14	7	12	7	7	4	14	12	7	1	13	12	4	1	5	13	14	5	7	7	3	2	10
Sierra Leone	10	7	8	4	8	15	11	14	12	4	15	8	9	11	8	7	8	6	4	4	13	6	14	3	13
Ethiopia	3	12	3	8	4	13	6	9	3	10	4	2	11	5	5	2	1	3	9	11	2	4	2	11	3
Malawi	7	11	15	11	10	1	4	8	9	13	5	13	10	7	12	12	11	4	7	8	8	13	9	5	6
Central African Republic	11	15	13	15	3	12	15	15	5	15	13	11	15	3	15	14	9	5	15	15	15	15	10	14	12
Eritrea	4	6	4	12	7	2	8	11	4	9	11	10	12	9	6	9	13	11	5	7	6	12	8	4	4
Somalia	8	14	11	14	5	3	9	13	6	8	9	9	14	8	7	4	12	14	3	9	3	14	5	8	5
Ranking Legend	1 - 3		4 - 7			8 - 11				12 - 15															