

# COUNTRY HEALTH INFORMATION PROFILE

**TONGA**

WESTERN PACIFIC REGION HEALTH DATABANK, 2011 Revision

INDICATORS		DATA			Year	Source			
Demographics		Total	Male	Female					
1	Area (1 000 km2)	0.65			2009	1			
2	Estimated population ('000s)	103.37	...	...	2010 est	1			
3	Annual population growth rate (%)	0.30	...	...	2010 est	1			
4	Percentage of population								
	- 0–4 years	13.11	13.32	12.90	2010 est	2			
	- 5–14 years	24.96	25.81	24.09	2010 est	2			
	- 65 years and above	5.78	5.11	6.46	2010 est	2			
5	Urban population (%)	23.40	...	...	2010 est	3			
6	Crude birth rate (per 1000 population)	25.40	...	...	2009	15			
7	Crude death rate (per 1000 population)	5.50	...	...	2009	15			
8	Rate of natural increase of population (% per annum)	1.99	...	...	2009	15			
9	Life expectancy (years)								
	- at birth	...	70.00	72.00	2009	15			
	- Healthy Life Expectancy (HALE) at age 60	...	11.90	12.00	2002	6			
10	Total fertility rate (women aged 15–49 years)	3.70			2010	4			
Socioeconomic indicators									
11	Adult literacy rate (%)	99.00			2006	7			
12	Per capita GDP at current market prices (US\$)	2988.00			2008-09	5			
13	Rate of growth of per capita GDP (%)	...							
14	Human development index	0.68			2010 est	8			
Environmental indicators		Total	Urban	Rural					
15	Health care waste generation (metric tons per year)	...	...	...					
Communicable and noncommunicable diseases		Number of new cases			Number of deaths				
16	Selected communicable diseases	Total	Male	Female	Total	Male	Female		
	Hepatitis viral								
	- Type A	0	0	0	0	0	0	2010	9
	- Type B	0	0	0	0	0	0	2010	9
	- Type C	0	0	0	0	0	0	2010	9
	- Type E	...	...	...	...	...	...		
	- Unspecified	0	0	0	0	0	0	2010	9
	Cholera	0	0	0	0	0	0	2010	9
	Dengue/DHF	30	17	13	0	0	0	2010	9
	Encephalitis	0	0	0	...	...	...	2010	9
	Gonorrhoea	169	106	63	...	...	...	2010	9
	Leprosy	0	0	0	...	...	...	2010	9
	Malaria	...	...	...	...	...	...		
	Plague	0	0	0	0	0	0	2010	9
	Syphilis	0	0	0	0	0	0	2010	9
	Typhoid fever	1	1	0	...	...	...	2010	9
17	Acute respiratory infections	20 891	...	...	26	11	15	2010	5
	- Among children under 5 years	...	...	...	...	...	...		

INDICATORS		DATA						Year	Source
Communicable and noncommunicable diseases		Number of new cases			Number of deaths				
		Total	Male	Female	Total	Male	Female		
18	<b>Diarrhoeal diseases</b>	1682	...	...	...	...	...	2010	5
	- Among children under 5 years	...	...	...	...	...	...		
19	<b>Tuberculosis</b>								
	- All forms	8	...	...	5 <sup>d</sup>	...	...	2009	11
	- New pulmonary tuberculosis (smear-positive)	6	...	...	...	...	...	2009	11
20	<b>Cancers</b>								
	All cancers (malignant neoplasms only)	101	46	55	83	38	45	2010	9
	- Breast	15	0	15	11	...	11	2010	9
	- Colon and rectum	1	1	0	8	7	1	2010	9
	- Cervix	...	...	1	...	...	3	2010	9
	- Leukaemia	...	...	...	...	...	...		
	- Lip, oral cavity and pharynx	0	0	0	6	3	3	2010	9
	- Liver	2	1	1	0	0	0	2010	9
	- Oesophagus	8	7	1	13	9	4	2010	9
	- Stomach	3	2	1	7	3	4	2010	9
	- Trachea, bronchus, and lung	7	7	0	11	8	3	2010	9
21	<b>Circulatory</b>								
	All circulatory system diseases	...	...	...	...	...	...		
	- Acute myocardial infarction	...	...	...	50	36	14	2010	9
	- Cerebrovascular diseases	60	...	...	24	13	11	2010	9
	- Hypertension	240	142	98	10	7	3	2010	9
	- Ischaemic heart disease	176	123	53	4	2	2	2010	9
	- Rheumatic fever and rheumatic heart diseases	13	6	7	2	2	0	2010	9
22	<b>Diabetes mellitus</b>	176	...	...	30	12	18	2010	9
23	<b>Mental disorders</b>	194			1	1	0	2010	9
24	<b>Injuries</b>								
	All types	...	...	...	...	...	...		
	- Drowning	...	...	...	...	...	...		
	- Homicide and violence	...	...	...	0	0	0	2010	9
	- Occupational injuries	19	...	...	0	0	0	2010	9
	- Road traffic accidents	...	...	...	0	0	0	2010	9
	- Suicide	...	...	...	2	2	0	2010	9
<b>Leading causes of mortality and morbidity</b>		<b>Number of cases</b>			<b>Rate per 100 000 population</b>				
25	<b>Leading causes of morbidity (inpatient care)</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>		
	1. Pregnancy, Childbirth, and the Puerperium	...	...	2713	...	...	2624.68 <sup>a</sup>	2010	9
	2. Factors Influencing Health Status and Contact with Health Services	2105	1046	1059	2036.47 <sup>a</sup>	...	...	2010	9
	3. Diseases of the Respiratory System	579	251	328	560.15 <sup>a</sup>	...	...	2010	9
	4. Injury, Poisoning and Certain Other Consequences of External Causes	437	106	331	422.77 <sup>a</sup>	...	...	2010	9
	5. Diseases of the Genitourinary system	373	289	84	360.86 <sup>a</sup>	...	...	2010	9
	6. Parasitic and Infectious Diseases	336	168	168	325.06 <sup>a</sup>	...	...	2010	9
	7. Symptoms, Signs, and Abnormal Clinical and Laboratory Finding, not elsewhere classified	280	139	141	270.88 <sup>a</sup>	...	...	2010	9
	8. Diseases of the Circulatory System	279	135	144	269.92 <sup>a</sup>	...	...	2010	9
	9. Mental and Behavioural Disorders	261	76	185	252.50 <sup>a</sup>	...	...	2010	9
	10. Diseases of the Digestive System	254	90	164	245.73 <sup>a</sup>	...	...	2010	9

INDICATORS		DATA						Year	Source
		Number of deaths			Rate per 100 000 population				
		Total	Male	Female	Total	Male	Female		
26	<b>Leading causes of mortality</b>								
	1. Diseases of the circulatory system	160	55	105	154.79 <sup>a</sup>	...	...	2010	9
	2. Symptoms, signs and ill-defined conditions	102	52	50	98.68 <sup>a</sup>	...	...	2010	9
	3. Neoplasms	83	38	45	80.30 <sup>a</sup>	...	...	2010	9
	4. Diseases of the respiratory system	50	23	27	48.37 <sup>a</sup>	...	...	2010	9
	5. Certain infectious and parasitic disease	31	12	19	29.99 <sup>a</sup>	...	...	2010	9
	6.	...	...	...	...	...	...		
	7.	...	...	...	...	...	...		
	8.	...	...	...	...	...	...		
	9.	...	...	...	...	...	...		
	10.	...	...	...	...	...	...		
<b>Maternal, child and infant diseases</b>		<b>Total</b>		<b>Male</b>	<b>Female</b>				
27	Percentage of women in the reproductive age group using modern contraceptive methods				31.50		2010	3	
28	Percentage of pregnant women immunized with tetanus toxoid (TT2)				98.00		2010	11	
29	Percentage of pregnant women with anaemia				...				
30	Neonatal mortality rate (per 1000 live births)	6.60		...	...		2010	9	
31	Percentage of newborn infants weighing less than 2500 g at birth	...		...	...				
32	<b>Immunization coverage for infants (%)</b>								
	- BCG	99.00		...	...		2010	11	
	- DTP3	99.00		...	...		2010	11	
	- Hepatitis B III	99.00		...	...		2010	11	
	- MCV2	98.00		...	...		2010	11	
	- POL3	99.00		...	...		2010	11	
		<b>Number of cases</b>			<b>Number of deaths</b>				
33	<b>Maternal causes</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>		
	- Abortion			57			0	2010	9
	- Eclampsia			...			...		
	- Haemorrhage			...			...		
	- Obstructed labour			...			...		
	- Sepsis			...			...		
34	<b>Selected diseases under the WHO-EPI</b>								
	- Congenital rubella syndrome	0	0	0	...	...	...	2010	11
	- Diphtheria	0	0	0	...	...	...	2010	11
	- Measles	0	0	0	...	...	...	2010	11
	- Mumps	0	0	0	...	...	...	2010	11
	- Neonatal tetanus	0	0	0	...	...	...	2010	11
	- Pertussis (whooping cough)	0	0	0	...	...	...	2010	11
	- Poliomyelitis	0	0	0	...	...	...	2010	11
	- Rubella	0	0	0	...	...	...	2010	11
	- Total Tetanus	0	0	0	...	...	...	2010	11
<b>Health facilities</b>									
35	Facilities with HIV testing and counseling services							...	

INDICATORS		DATA						Year	Source	
<b>Health facilities</b>		Number			Number of beds					
36	<b>Health infrastructure</b>									
	Public health facilities	- General hospitals	1		196		2010	9		
		- Specialized hospitals	...		...					
		- District/first-level referral hospitals	3		70		2010	9		
		- Primary health care centres	14		...		2010	9		
	Private health facilities	- Hospitals	...		...					
		- Outpatient clinics	...		...					
<b>Health care financing</b>										
37	<b>Total health expenditure</b>									
	- amount (in million US\$)				16.75 <sup>a</sup>		2009p	12		
	- total expenditure on health as % of GDP				5.30		2009p	12		
	- per capita total expenditure on health (in US\$)				161.04 <sup>a</sup>		2009p	12		
	<b>Government expenditure on health</b>									
	- amount (in million US\$)				13.30 <sup>a</sup>		2009p	12		
	- general government expenditure on health as % of total expenditure on health				78.80		2009p	12		
	- general government expenditure on health as % of total general government expenditure				14.50		2009p	12		
	<b>External source of government health expenditure</b>									
	- external resources for health as % of general government expenditure on health				3.70 <sup>a</sup>		2009p	12		
	<b>Private health expenditure</b>									
	- private expenditure on health as % of total expenditure on health				21.20		2009p	12		
	- out-of-pocket expenditure on health as % of total expenditure on health				17.65 <sup>a</sup>		2009p	12		
	<b>Exchange rate in US\$ of local currency is: 1 US\$ =</b>				2.03		2009p	12		
38	<b>Health insurance coverage as % of total population</b>						12.00	FY2002-03	10	
INDICATORS		DATA						Year	Source	
39	<b>Human resources for health</b>	Total	Male	Female	Urban	Rural	Public	Private		
	Physicians	- Number	58 <sup>b</sup>	...	...	...	...	...	2010	9
		- Ratio per 1000 population	0.56	...	...	...	...	...	2010	9
	Dentists	- Number	10 <sup>c</sup>	...	...	...	...	...	2010	9
		- Ratio per 1000 population	0.22	...	...	...	...	...	2010	9
	Pharmacists	- Number	4	3	1	...	...	...	2010	9
		- Ratio per 1000 population	0.04	0.03	0.01	...	...	...	2010	9
	Nurses	- Number	379	...	...	...	...	...	2010	9
		- Ratio per 1000 population	3.67	...	...	...	...	...	2010	9
	Midwives	- Number	21	0	21	...	...	...	2010	9
		- Ratio per 1000 population	0.20	0.00	0.20	...	...	...	2010	9
	Paramedical staff	- Number	...	...	...	...	...	...		
		- Ratio per 1000 population	...	...	...	...	...	...		
	Community health workers	- Number	...	...	...	...	...	...		
		- Ratio per 1000 population	...	...	...	...	...	...		
40	<b>Annual number of graduates</b>									
	Physicians	...	...	...	...	...	...	...		
	Dentists	...	...	...	...	...	...	...		
	Pharmacists	0	0	0	0	0	0	0	2007	4

INDICATORS			DATA						Year	Source	
		Total	Male	Female	Urban	Rural	Public	Private			
40	Annual number of graduates	Nurses	20	...	...	...	...	...	...	2007	4
		Midwives	...	...	...	...	...	...	...		
		Paramedical staff	...	...	...	...	...	...	...		
		Community health workers	...	...	...	...	...	...	...		
41	Workforce losses/ Attrition	Physicians	...	...	...	...	...	...			
		Dentists	...	...	...	...	...	...			
		Pharmacists	0	0	0	0	0	0	0	2007	4
		Nurses	...	...	...	...	...	...	...		
		Midwives	...	...	...	...	...	...	...		
		Paramedical staff	...	...	...	...	...	...	...		
		Community health workers	...	...	...	...	...	...	...		
INDICATORS			DATA			Year	Source				
	Health-related Millennium Development Goals (MDGs)	Total	Male	Female							
42	Prevalence of underweight children under five years of age	...	...	...							
43	Infant mortality rate (per 1000 live births)	16.00	...	...	2010	9					
44	Under-five mortality rate (per 1000 live births)	19.70	...	...	2010	5					
45	Proportion of 1 year-old children immunised against measles	99.00	...	...	2010	11					
46	Maternal mortality ratio (per 100 000 live births)	36.40	...	...	2010	9					
47	Proportion of births attended by skilled health personnel	100.00	...	...	2010	9					
	- Percentage of deliveries at home by skilled health personnel (as % of total deliveries)	0.40	...	...	2010	9					
	- Percentage of deliveries in health facilities (as % of total deliveries)	98.00	...	...	2010	9					
48	Contraceptive prevalence rate	31.50	...	...	2010	5					
49	Adolescent birth rate	...	...	...							
50	Antenatal care coverage - At least one visit	97.90	...	...	2010	9					
	- At least four visits	...	...	...							
51	Unmet need for family planning	...	...	...							
52	HIV prevalence among population aged 15-24 years	...	...	...							
53	Estimated HIV prevalence in adults	...	...	...							
54	Percentage of people with advanced HIV infection receiving ART	...	...	...							
55	Malaria incidence rate per 100 000 population	...	...	...							
56	Malaria death rate per 100 000 population	...	...	...							
57	Proportion of population in malaria-risk areas using effective malaria prevention measures	...	...	...							
58	Proportion of population in malaria-risk areas using effective malaria treatment measures	...	...	...							
59	Tuberculosis prevalence rate per 100 000 population	44.00	...	...	2009	9					
60	Tuberculosis death rate per 100 000 population	5.00	...	...	2009	9					
61	Proportion of tuberculosis cases detected under directly observed treatment short-course (DOTS)	33.00	...	...	2009	9					
62	Proportion of tuberculosis cases cured under directly observed treatment short-course (DOTS)	100.00	...	...	2008	9					
		Total	Urban	Rural							
63	Proportion of population using an improved drinking water source	99.80	100.00	100.00	2008	14					
64	Proportion of population using an improved sanitation facility	96.00	98.00	96.00	2008	14					
65	Proportion of population with access to affordable essential drugs on a sustainable basis	>95.00	...	...	2002	13					

Notes:	
...	Data not available
p	Provisional
est	Estimate
NR	Not relevant
a	Computed by Health Information and Evidence for Policy Unit of WHO Regional Office for the Western Pacific
b	Figure refers to government doctors
c	Figure refers to dental officers and dental therapists
d	Estimated number of deaths
Sources:	
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3	Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects: The 2008 Revision and World Urbanization Prospects: The 2009 Revision, [http://esa.un.org/wup2009/unup/] Monday, June 06, 2011; 9:20:08 PM.
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6	The world health report 2004: changing history. Geneva, World Health Organization, 2004.
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8	Human Development Report 2010: The Real Wealth of Nations: Pathways to Human Development. United National Development Programme. [http://hdr.undp.org/en/reports/global/hdr2010/chapters/en/]
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11	WHO Regional Office for the Western Pacific, data received from the technical units.
12	National health accounts: country information. Geneva, World Health Organization. Accessed in August 2011 from [http://www.who.int/nha/country/en/index.html].
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