

**PHG Needs Assessment Calculator****Botswana****Health Services**

Welcome to the PHG Health Needs Assessment Calculator for Health Services. The contents of this file are listed below.

Full name of the sheet	Short name
Country demographic, maternal health and socioeconomic indicators	Demography
Country health-service data	HealthServices
Health services: Birth prevalence estimates for various congenital disorders	HSER-NA1

**Botswana**  
**Shared Data**  
**Demographic, maternal health and socio-economic indicators**

Please read first! If you have already completed a needs assessment for a different topic in this country, you will be able to copy the Demography information from that Calculator into here. The information should be the same.

By default, the Toolkit contains information at the national level.

If you would like to use a different population, then replace country information with that of your specific population of interest.

Number of persons by age-group and sex	Estimates			Your estimates			Chosen estimates		
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	107564	104908	212472			0			0
5-9 years	102650	97035	199685			0			0
10-14 years	106643	108231	214874			0			0
15-19 years	91806	91623	183429			0			0
20-24 years	92134	104057	196191			0			0
25-29 years	80087	89173	169260			0			0
30-34 years	65142	66264	131406			0			0
35-39 years	44147	51592	95739			0			0
40-44 years	37525	45070	82595			0			0
45-49 years	31320	38131	69451			0			0
50-54 years	24853	30962	55815			0			0
55-59 years	18041	21830	39871			0			0
60-64 years	12980	17699	30679			0			0
65+ years	36601	54848	91449			0			0
Total	0	0	1773240	0	0	0	0	0	0
Female population aged 15-44 years		0			-			-	
Data year	2006 reported in 2009								
Source, Year	UN 2011								

**Ethnicity.** Please enter data for the main ethnic groups if you are working with a population that is different from that of the country.

Ethnic group	Number	% population

<b>Fertility and mortality</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Crude birth rate: live births (LB) / year / 1000 population	25	Unicef, 2007				
Still birth rate (SB): Still births (SB) / year / 1000 total births	16	WHO, 2009				
Total births in 1000s (LB+SB) per year	47	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	36	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	48	UNICEF (2011), 2010				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	61	WHO, 2009				
% of marriages consanguineous						

<b>Maternal health</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Prenatal visits – at least 1 visit (%)	94	WHO, 2007				
Prenatal visits – at least 4 visits (%)	73	WHO, 2007				
Births attended by skilled health personnel (%)	94.6	WHO, 2007				
Contraception prevalence rate (%)	44.4	WHO, 2000				
Unmet need for family planning (%)						
Total fertility rate	2.8	WHO, 2009				
% home births						
% births at health care services						
<b>Newborn health</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Number of neonatal examinations by SBA / trained staff						
% neonatal examinations by SBA/ trained staff						

<b>Socio-economic indicators</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Gross national income per capita (PPP int. \$)	13310	WHO, 2008				
% population living on < US\$1 per day						
Birth registration coverage (%)	72	WHO, 2007				
Death registration coverage (%)						

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

**Botswana**  
**Shared Data**  
**Health services data**

**Please read first!** If you have already completed a needs assessment for a different topic in this country, you will be able to copy the Health Services information from that Calculator into here. The information should be the same.

This section provides health-service-related information for your country.

**By default, the Toolkit contains information at the national level.**

**If you would like to use a different population, then replace country information with that of your specific population of interest.**

<b>Health Expenditure</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Per capita total expenditure on health (PPP int. \$)	1341	WHO, 2009				
Total expenditure on health as percentage of GDP	10.3	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	1072	WHO, 2009				
External resources for health as percentage of total expenditure on health	18.8	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	80.0	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	34.0	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	20.0	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	16.7	WHO, 2009				

<b>Health Workforce</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Number of nursing and midwifery personnel	5006	WHO, 2006				
Nursing and midwifery personnel density (per 10,000 population)	28.4	WHO, 2006				
Number of physicians	591	WHO, 2006				
Physician density (per 10 000 population)	3.36	WHO, 2006				
Number of obstetricians						
Number of paediatricians						
Number of paediatric surgeons						
Number of paediatric cardiac surgeons						
Number of paediatric neurosurgeons						
Number of clinical geneticists						
Number of genetic counsellors						
Number of community health workers						
Number of skilled birth attendants (SBA)						

Density of SBA						
Number of lab staff providing cytogenetic testing						
Number of lab staff providing molecular genetics						
Number of lab staff providing biochemical tests for genetics						
Number of skilled health attendants						

<b>Infrastructure</b>	<b>Estimate</b>	<b>Source, Year</b>	<b>Your estimate</b>	<b>Source, Year</b>	<b>Chosen estimate</b>	<b>Source, Year</b>
Number of maternity units						
Number of services providing specialised care for people with CD						
Number of family planning services						
Number of preconception services						
Number of services providing prenatal care						
Number of services providing newborn care						
Number of facilities providing genetic services						
Number of laboratories providing cytogenetics						
Number of laboratories providing molecular genetics						
Number of laboratories providing biochemical tests for genetics						
Number of facilities for safe terminations of pregnancies for fetal defects						

PPP = purchasing power parity

GDP = gross domestic product

SBA = skilled birth attendant

CD = congenital disorders

**Botswana****Health services****Health services: Birth prevalence estimates for various congenital disorders**

Conditions	Global prevalence per 1000 LB	Country prevalence per 1000 LB	Country number of births annually
Down's syndrome			
Sex chromosomal disorders			
Chromosomal disorders (all)			
Congenital heart disease			
Neural tube defects			
Orofacial clefts			
Other malformations			
Malformations (all)			
Sickle cell disease			
Thalassaemias			
Haemoglobin disorders (all)			
Other recessive single gene disorders (SGD)			
Dominant SGD			
X-linked SGD			
All SGD of clinical significance			
Rhesus haemolytic disease			
G6PD deficiency			
Environmental causes (all)			
Unknown causes			

LB = live births