

*PHNIP Country Health Statistical Report*

# Uganda

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**September 2002**



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# About the Report

Released September 2002

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This report is one of a series of Country Health Statistical Reports produced by the Population, Health and Nutrition Information (PHNI) Project. Each profile contains statistical data on current health conditions, population dynamics, health and family planning behavior, and health and population trends in a given developing country. Information is compiled from PHNI's health statistics database, which draws data from a diverse range of sources listed at the end of this profile.

Hard copy editions of PHNI's profiles are available from our publications department. Reports will soon be available on the USAID Global Health Web site in Portable Document Format (.pdf). Any feedback you have on the content or presentation of this report would be greatly appreciated. We would also appreciate receiving any more recent, more accurate, or more representative information.

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# I. Statistical Overview

\*see data notes

Demographic Indicators				
Indicator	Value	Data Unit	Year	Source
Total Population	23,985,712		2001	BUCEN - IDB-2000
Population Growth Rate	2.9	%	2001	BUCEN - IDB-2000
Percent Urban	13.9	%	1999	World Bank/WDI-2001
Women, 15-19	1,387,125		2002	BUCEN - IDB-2000
Women, 15-49	5,185,128		2002	BUCEN - IDB-2000
Life Expectancy at Birth	43.4		2001	BUCEN - IDB-2000
Crude Birth Rate	47.5	per 1,000	2001	BUCEN - IDB-2000
Crude Death Rate	18	per 1,000	2001	BUCEN - IDB-2000
Number of Live Births	1,140	000s	2001	BUCEN - IDB-2000

Socioeconomic Indicators				
Indicator	Value	Data Unit	Year	Source
GNI per Capita (PPP)	1,160	\$	1999	World Bank/WDI-2001
Health Expenditure as Percentage of GDP	5.9	%	1990-1998	World Bank/WDI-2001
Physicians per 1,000 People	0.04		1990-1998	World Bank/WDI-2001
Adult Literacy Rate	66.1	%	1999	World Bank/WDI-2001
Adult Literacy Rate, Female	55.5	%	1999	World Bank/WDI-2001
Adult Literacy Rate, Male	76.8	%	1999	World Bank/WDI-2001
Gross Enrollment Rate - Primary School	122	%	1998	UNESCO-2000
Gender Parity Index - Net Enrollment Rate	0.91		1997	UNESCO-2000
Access to an Improved Water Source (Rural)	46	%	2000	World Bank/WDI-2001
Access to an Improved Water Source (Urban)	72	%	2000	World Bank/WDI-2001
Access to Improved Sanitation Facilities (Rural)	72	%	2000	World Bank/WDI-2001
Access to Improved Sanitation Facilities (Urban)	96	%	2000	World Bank/WDI-2001

Family Planning Indicators				
Indicator	Value	Data Unit	Year	Source
Total Fertility Rate (BUCEN)	6.9		2001	BUCEN - IDB-2000
Total Fertility Rate (DHS)	6.9		2000	Uganda DHS-2000-2001
Contraceptive Prevalence Rate, Modern Methods, All Women	16.5	%	2000	Uganda DHS-2000-2001
Contraceptive Prevalence Rate, Modern Methods, Married Women	18.2	%	2000	Uganda DHS-2000-2001
Median Age of Sexual Debut Among Women, Ages 25-49	16.6		2000	Uganda DHS-2000-2001
Mean Ideal Family Size	4.8		2000	Uganda DHS-2000-2001
Women 20-24 Who Gave Birth Before Age 20	70.1	%	2001	Uganda DHS-2000-2001

Maternal Health Indicators				
Indicator	Value	Data Unit	Year	Source
Maternal Mortality Ratio (DHS)	505	Per 100,000 live births	1990-2000	Uganda DHS-2000-2001
Maternal Mortality Ratio (WHO/Hill)	1,056	Per 100,000 live births	1995	WHO/Hill-2001
Antenatal Care (at least 1 visit)	91.9	%	2000	Uganda DHS-2000-2001
Antenatal Care (2+ visits)	84.2	%	2000	Uganda DHS-2000-2001
Antenatal Care (4+ visits)	41.9	%	2000	Uganda DHS-2000-2001
Assisted Delivery by a Health Professional	39	%	2000	Uganda DHS-2000-2001
Assisted Delivery by Doctor	3.8	%	2000	Uganda DHS-2000-2001
Assisted Delivery by Other Health Professional	35.2	%	2000	Uganda DHS-2000-2001

Child Survival Indicators				
Indicator	Value	Data Unit	Year	Source
<b>Acute Respiratory Infection (ARI) and Oral Rehydration Therapy (ORT)</b>				
ARI Treatment - Children Under 5	64.7	%	2000	Uganda DHS-2000-2001
ORT Use Rate (ORS, RHS, or Increased Fluids)	53.1	%	2001	Uganda DHS-2000-2001
<b>Mortality Indicators</b>				
Infant Mortality Rate (BUCEN)	89	per 1,000 live births	2002	BUCEN - IDB-2000
Infant Mortality Rate (DHS)	88.4	per 1,000 live births	2000	Uganda DHS-2000-2001
Infant Mortality Rate, Females (BUCEN)	82	per 1,000 live births	2002	BUCEN - IDB-2000
Infant Mortality Rate, Males (BUCEN)	97	per 1,000 live births	2002	BUCEN - IDB-2000
Under-5 Mortality Rate (BUCEN)	159.3	per 1,000 live births	2001	BUCEN - IDB-2000
Under-5 Mortality Rate (DHS)	151.5	per 1,000 live births	2000	Uganda DHS-2000-2001
<b>Nutrition Indicators</b>				
Exclusive Breastfeeding (under 4 mos.)	74.8	%	2000	Uganda DHS-2000-2001
Exclusive Breastfeeding (under 6 mos.)	63.1	%	2000	Uganda DHS-2000-2001
Stunted (height-for-age)	39.1	%	2000	Uganda DHS-2000-2001
Underweight (weight-for-age)	22.8	%	2000	Uganda DHS-2000-2001
Wasted (weight-for-height)	4.1	%	2000	Uganda DHS-2000-2001
<b>Vaccination Coverage</b>				
DPT3 Vaccination Rate (DHS)	46.1	%	2000	Uganda DHS-2000-2001
Measles Vaccination Rate (DHS)	56.8	%	2000	Uganda DHS-2000-2001
Polio Vaccination Rate (DHS)	54.1	%	2000	Uganda DHS-2000-2001
Tetanus Toxoid Vaccination	41.7 <sup>1</sup>	%	2000	Uganda DHS-2000-2001

<sup>1</sup> The value for this country represents data from the five-year period preceding the survey.

HIV/AIDS Prevention Indicators				
Indicator	Value	Data Unit	Year	Source
HIV Prevalence, Adults	8.3	%	1999	UNAIDS-2000
HIV Prevalence, Females 15-24, High Estimates	9	%	1999	UNAIDS-2000
HIV Prevalence, Females 15-24, Low Estimates	6.6	%	1999	UNAIDS-2000
HIV Prevalence, Males 15-24, High Estimates	5.1	%	1999	UNAIDS-2000
HIV Prevalence, Males 15-24, Low Estimates	2.6	%	1999	UNAIDS-2000
Males Reporting Condom Use With Last Non-Regular Partner	58.9	%	2000	Uganda DHS-2000-2001
Females Reporting Condom Use With Last Non-Regular Partner	37.8	%	2000	Uganda DHS-2000-2001

Infectious Diseases Control Indicators				
Indicator	Value	Data Unit	Year	Source
TB Incidence Rate	343	per 100,000 pop	1998	WHO/TB Control Report-2001
TB Case Detection Rate	59	%	1998	WHO/TB Control Report-2001
TB (DOTS) Treatment Success Rate	62.3	%	1998	WHO/TB Control Report-2001
Malaria	Data Not Available			

## II. Trends in Health Indicators

Figure 1: Current and Projected Population by Age and Sex (in thousands)

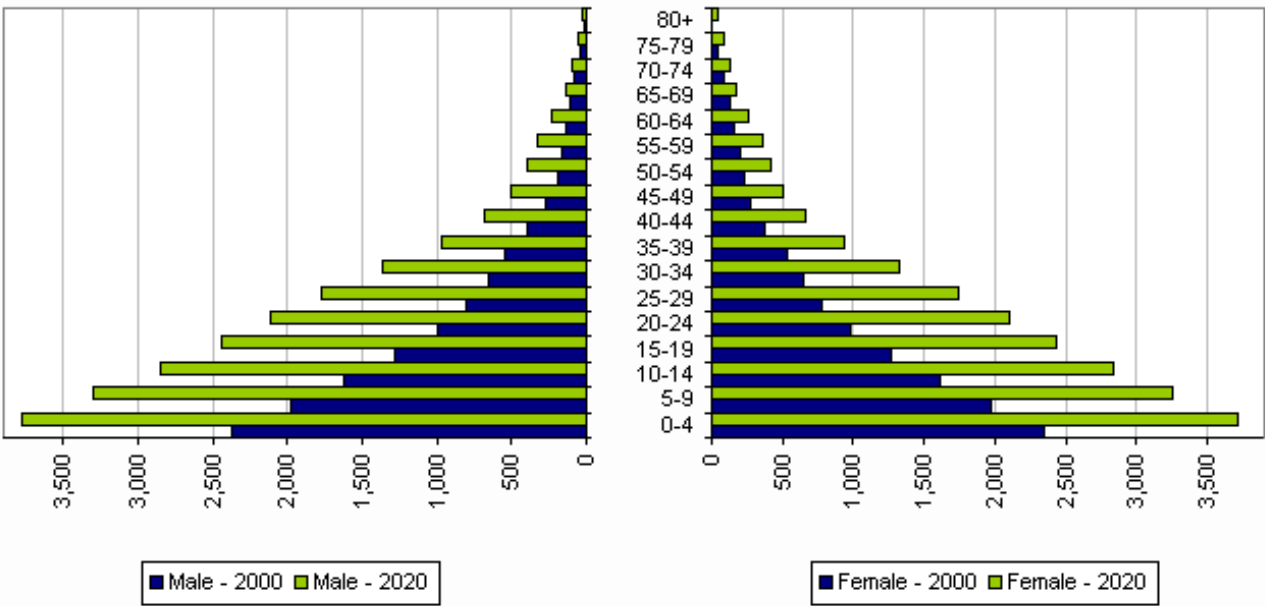


Table 1.1: Current and Projected Population by Age and Sex

Source: BUCEN - IDB

Age Group	Male - 2000	Male - 2020	Female - 2000	Female - 2020
0-4	2,376,070	3,776,912	2,350,442	3,714,857
5-9	1,982,670	3,293,300	1,972,306	3,258,899
10-14	1,627,905	2,852,606	1,614,006	2,834,594
15-19	1,276,741	2,439,819	1,264,896	2,429,471
20-24	996,802	2,109,890	980,098	2,097,502
25-29	807,328	1,768,114	778,692	1,742,073
30-34	660,587	1,358,386	643,872	1,318,936
35-39	550,925	967,128	533,209	937,246
40-44	393,782	682,527	378,369	667,305
45-49	266,780	510,381	278,008	509,489
50-54	194,090	399,151	227,856	424,128
55-59	160,993	325,538	200,303	359,074
60-64	135,585	225,149	163,260	253,739
65-69	103,398	142,226	122,888	175,414
70-74	75,223	90,758	79,408	124,568
75-79	45,777	59,041	43,623	84,735
80+	16,421	29,749	15,247	41,999

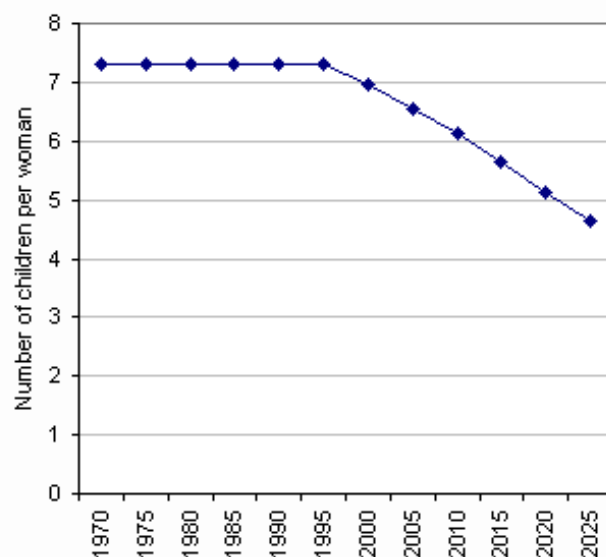
TABLE 1.2: Population Estimates and Projections

Source: BUCEN - IDB

1980	1990	2000	2010	2020
12,297,806	17,186,461	23,317,560	31,395,362	42,004,704



**Figure 2: Estimated Total Fertility Rate per Woman**

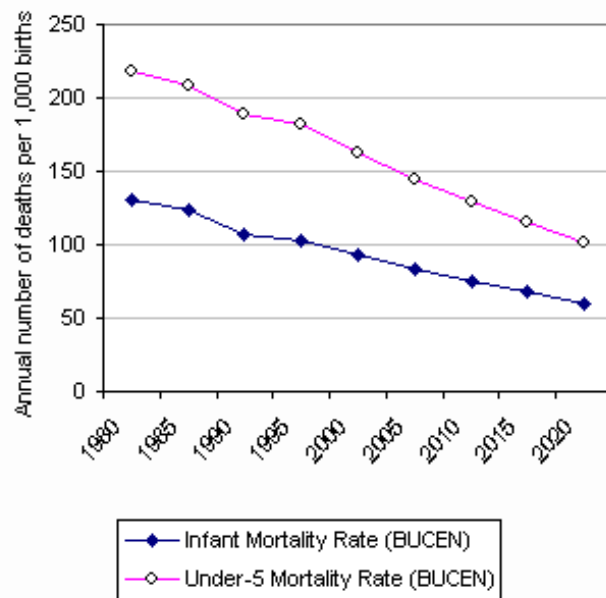


**Table 2: Estimated Total Fertility Rate per Woman**

Source: BUCEN - IDB

1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
7.3	7.3	7.3	7.3	7.3	7.3	7.0	6.6	6.1	5.6	5.1	4.6

**Figure 3: Infant Mortality Rates / Under-5 Mortality Rates**

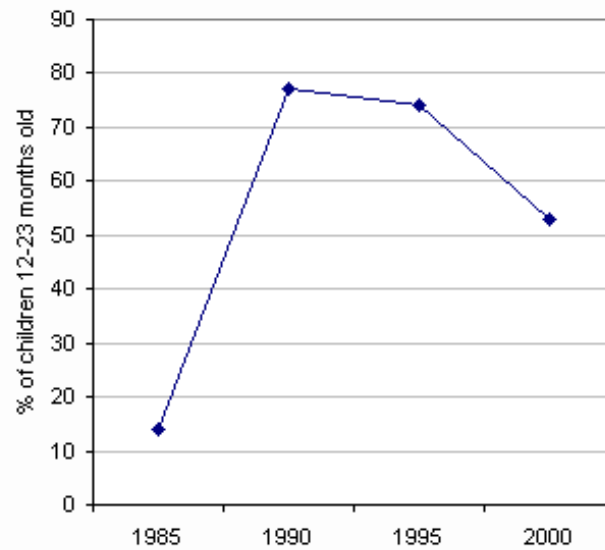


**Table 3: Infant Mortality Rates / Under-5 Mortality Rates**

Source: BUCEN - IDB 2000

Indicator	1980	1985	1990	1995	2000	2005	2010	2015	2020
Infant Mortality Rate (BUCEN)	130.0	124.3	107.6	102.9	93.3	83.5	75.4	67.5	59.6
Under-5 Mortality Rate (BUCEN)	218.6	208.7	189.5	181.5	163.0	144.1	129.7	115.6	101.3

**Figure 4: Vaccination Coverage (DPT3) Trends**

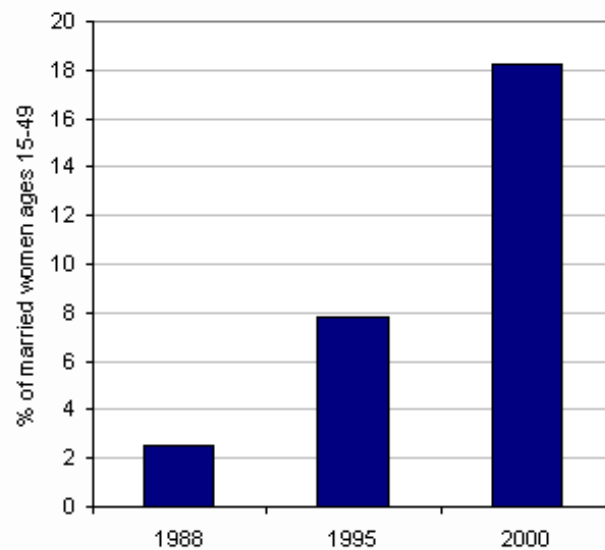


**Table 4: Vaccination Coverage (DPT3) Trends**

Source: WHO/Global Summary

1985	1990	1995	2000
14.0	77.0	74.0	53.0

**Figure 5: Contraceptive Prevalence Rates, Modern Methods, Married Women**



**Table 5: Contraceptive Prevalence Rates, Modern Methods, Married Women**

Source: Uganda DHS

1988	1995	2000
2.5	7.8	18.2

# Data Notes

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\*Indicator definitions that differ from those in the data notes section are identified by footnotes accompanying the indicator tables.

## **Demographic Indicators**

<b>Total Population</b>	The number of people in a given area (i.e., country) in a particular time period (usually a midyear estimate).
<b>Population Growth Rate</b>	The average annual growth rate is the rate of natural increase in a population plus the net migration rate. The rate of natural increase is the difference between the birth rate and the death rate, but it is conventionally measured in percentage terms (per hundred rather than per thousand).
<b>Percent Urban</b>	The percentage of the midyear population living in areas defined as urban in each country and reported to the United Nations.
<b>Women, 15-19</b>	The number of women between the ages of 15-19 in the midyear population.
<b>Women, 15-49</b>	The number of women between the ages of 15-49 in the midyear population.
<b>Life Expectancy at Birth</b>	The average number of years that a person at age 0 will live if age-specific death rates remain constant. Life expectancy at birth is highly affected by rates of infant and child death.
<b>Crude Birth Rate</b>	The number of births per thousand of the population. The product of the number of live births, divided by the midpoint population, multiplied by 1,000.
<b>Crude Death Rate</b>	The number of deaths per thousand of the population. The product of the number of deaths divided by the midpoint population, multiplied by 1,000.
<b>Number of Live Births</b>	The number of live births, annually, within a country.

## **Socioeconomic Indicators**

<b>GNI per Capita (PPP)</b>	The gross national income (GNI) converted to international dollars using purchasing power parity (PPP) rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States.
<b>Health Expenditure as Percentage of GDP</b>	Total health expenditures is the sum of public and private health expenditures figured as a percentage of a country's gross domestic product (GDP). It covers the provision of health services (preventive and curative), family planning activities, nutrition activities, and emergency aid designated for health but does not include provision of water and sanitation.
<b>Physicians per 1,000 People</b>	Physicians are defined as graduates of any faculty or school of medicine who are working in the country in any medical field (practice, teaching, research).
<b>Adult Literacy Rate</b>	The percentage of people ages 15 and over who can, with understanding, read and write a short, simple statement about their everyday life.
<b>Adult Literacy Rate, Female</b>	The percentage of women ages 15 and over who can, with understanding, read and write a short, simple statement about their everyday life.
<b>Adult Literacy Rate, Male</b>	The percentage of men ages 15 and over who can, with understanding, read and write a short, simple statement about their everyday life.
<b>Gross Enrollment Rate - Primary School</b>	Total enrolment in primary level of education, regardless of age, expressed as a percentage of the official school-age population corresponding to primary level of education in give school-year. GER can be over 100% due to the inclusion of over-aged and under-aged pupils/students because of early or late entrants, and grade repetition.

<b>Gender Parity Index - Net Enrollment Rate</b>	The ratio of the female-to-male net primary school enrollment rates measures progress towards gender equity in school attendance and the level of learning opportunities available for women in relation to those available to men. Calculation Method: Divide the female net primary school enrollment rate by the male net primary school enrollment rate.
<b>Access to an Improved Water Source (Rural)</b>	Access to an improved water source in rural areas. Refers to the percentage of the rural population with reasonable access to an adequate amount of water from an improved source, such as a household connection, public standpipe, borehole, protected well or spring, or rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling.
<b>Access to an Improved Water Source (Urban)</b>	Access to an improved water source in urban areas. Refers to the percentage of the urban population with reasonable access to an adequate amount of water from an improved source, such as a household connection, public standpipe, borehole, protected well or spring, or rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling.
<b>Access to Improved Sanitation Facilities (Rural)</b>	Access to improved sanitation facilities in rural areas. Refers to the percentage of the rural population with access to at least adequate excreta disposal facilities (private or shared, but not public) that can effectively prevent human, animal, and insect contact with excreta.
<b>Access to Improved Sanitation Facilities (Urban)</b>	Access to improved sanitation facilities in urban areas. Refers to the percentage of the urban population with access to at least adequate excreta disposal facilities (private or shared, but not public) that can effectively prevent human, animal, and insect contact with excreta.
<b>Family Planning Indicators</b>	
<b>Total Fertility Rate (BUCEN)</b>	The number of children a woman between ages 15-44 would have during her reproductive life, if, for all of her childbearing years she were to experience the age-specific birth rates for that given year.
<b>Total Fertility Rate (DHS)</b>	The number of children a woman between ages 15-49 would have during her lifetime if she were to bear children at the currently observed rates.
<b>Contraceptive Prevalence Rate, Modern Methods, All Women</b>	Percentage of all women ages 15-49 currently using a modern method of contraception. Modern methods include oral contraceptives, IUDs, injectables, female and male sterilization, all emergency contraception, and barrier methods (diaphragm, foam, jelly, male and female condom).
<b>Contraceptive Prevalence Rate, Modern Methods, Married Women</b>	Percent of currently married ages women 15-49 currently using a modern method of contraception. Modern methods include oral contraceptives, IUDs, injectables, female and male sterilization, all emergency contraception, and barrier methods (diaphragm, foam, jelly, male and female condom).
<b>Median Age of Sexual Debut Among Women, Ages 25-49</b>	Median age of first sexual intercourse for women ages 25-49.
<b>Mean Ideal Family Size</b>	Mean ideal number of children for all women, according to number of living children.
<b>Women 20-24 Who Gave Birth Before Age 20</b>	Percentage of women ages 20-24 who have already given birth or were pregnant with their first child before the age of 20.
<b>Maternal Health Indicators</b>	
<b>Maternal Mortality Ratio (DHS)</b>	The estimated number of women who die as a result of pregnancy or childbirth per 100,000 live births, arrived mostly through 'direct sisterhood method'. The use of information reported by a sibling is to expand the sample size and to compensate for the lack of vital registration system.
<b>Maternal Mortality Ratio (WHO/Hill)</b>	The estimated number of women who die as a result of pregnancy or childbirth per 100,000 live births arrived through Hill et al., adjustment procedure depending on the nature of data used.
<b>Antenatal Care (at least 1 visit)</b>	Percentage of women of reproductive age (15-49) who receive at least one antenatal care visit during pregnancy (in the three-year period preceding the survey).
<b>Antenatal Care (2+ visits)</b>	Percentage of women of reproductive age (15-49) who receive at least two antenatal care visits during pregnancy (in the three-year period preceding the survey).

<b>Antenatal Care (4+ visits)</b>	Percentage of women of reproductive age (15-49) who receive four or more antenatal care visits during pregnancy (in the three-year period preceding the survey).
<b>Assisted Delivery by a Health Professional</b>	The percentage of births/deliveries that occur with the assistance of any trained health professional during the five-year period preceding the survey. May include doctors, nurses, midwives, village health workers, or any other trained health professional.
<b>Assisted Delivery by Doctor</b>	The percentage of live births/deliveries that occur with the assistance of a doctor during the five-year period preceding the survey.
<b>Assisted Delivery by Other Health Professional</b>	The percentage of live births/deliveries that occur with the assistance of a nurse, midwife, village health worker, or any other trained health professional besides a doctor during the five-year period preceding the survey.
<b>Child Survival Indicators</b>	
<b>ARI Treatment - Children Under 5</b>	Percentage of children under five years who were ill with an acute respiratory infection (ARI), which is associated with cough, rapid breathing and a high fever, during the two weeks preceding the survey, and who were treated with specific remedies.
<b>ORT Use Rate (ORS, RHS, or Increased Fluids)</b>	Oral Rehydration Therapy (ORT). Percentage of children under age 5 with diarrhea two weeks prior to survey who received increased fluids, oral rehydration solution (ORS) or recommended home solution (RHS).
<b>Infant Mortality Rate (BUCEN)</b>	The estimated annual number of deaths of infants under 12 months in a given year per 1,000 live births in that same year.
<b>Infant Mortality Rate (DHS)</b>	The estimated annual number of deaths of infants under 12 months in a given year per 1,000 live births in that same year (five-year period preceding survey).
<b>Infant Mortality Rate, Females (BUCEN)</b>	The estimated annual number of deaths of female infants under 12 months in a given year per 1,000 live births in that same year.
<b>Infant Mortality Rate, Males (BUCEN)</b>	The estimated annual number of of male infants under 12 months in a given year per 1,000 live births in that same year.
<b>Under-5 Mortality Rate (BUCEN)</b>	Annual number of deaths that occur in children 0-4 years old per 1,000 births.
<b>Under-5 Mortality Rate (DHS)</b>	Annual number of deaths that occur in children 0-4 years old per 1,000 births (five-year period preceding survey).
<b>Exclusive Breastfeeding (under 4 mos.)</b>	Percentage of children under 4 months exclusively breastfed. Exclusive breastfeeding is defined as providing no food or liquid other than breast milk to the child during the 24-hour period before the survey.
<b>Exclusive Breastfeeding (under 6 mos.)</b>	Percentage of children under 6 months exclusively breastfed. Exclusive breastfeeding is defined as providing no food or liquid other than breast milk to the child during the 24-hour period before the survey.
<b>Stunted (height-for-age)</b>	Percentage of children under age five whose height-for-age is below minus-two standard deviations from the median of the reference population.
<b>Underweight (weight-for-age)</b>	Percentage of children under age five whose weight-for-age is below minus-two standard deviations from the median of the reference population.
<b>Wasted (weight-for-height)</b>	Percentage of children under age five whose weight-for-height is below minus-two standard deviations from the median of the reference population.
<b>DPT3 Vaccination Rate (DHS)</b>	Proportion of living children 12-23 months old who have received three complete doses of vaccines against diphtheria, pertussis, and tetanus.
<b>Measles Vaccination Rate (DHS)</b>	Percentage of living children who have received one dose of MCV (fully immunized) against measles.
<b>Polio Vaccination Rate (DHS)</b>	Percentage of children receiving three doses of polio vaccine.
<b>Tetanus Toxoid Vaccination</b>	Percentage of pregnant women receiving two (or more) doses of tetanus toxoid (three-year period preceding survey).

### ***HIV/AIDS Prevention Indicators***

<b>HIV Prevalence, Adults</b>	The estimated number of adults (ages 15-49) living with HIV/AIDS at the end of 1999 divided by the 1999 adult population (ages 15–49).
<b>HIV Prevalence, Females 15-24, High Estimates</b>	HIV prevalence, adolescent females 15-24 for high estimates.
<b>HIV Prevalence, Females 15-24, Low Estimates</b>	HIV prevalence, adolescent females 15-24 for low estimates.
<b>HIV Prevalence, Males 15-24, High Estimates</b>	HIV prevalence, adolescent males 15-24 for high estimates.
<b>HIV Prevalence, Males 15-24, Low Estimates</b>	HIV prevalence, adolescent males 15-24 for low estimates.
<b>Males Reporting Condom Use With Last Non-Regular Partner</b>	Among men who have had sex in the last year, percentage who used condoms during their last sexual intercourse with a non-regular partner/non-cohabitating partner.
<b>Females Reporting Condom Use With Last Non-Regular Partner</b>	Among women who have had sex in the last year, percentage who used condoms during their last sexual intercourse with a non-regular partner/non-cohabitating partner.

### ***Infectious Diseases Control Indicators***

<b>TB Incidence Rate</b>	Total number of TB cases (all types) estimated in a given period of time per 100,000 population.
<b>TB Case Detection Rate</b>	TB Case Detection Rate is defined as the percentage of the annual new smear-positive notifications of the estimated annual new smear-positive incidence.
<b>TB (DOTS) Treatment Success Rate</b>	The proportion of smear-positive patients who were cured plus the proportion who completed treatment.
<b>Malaria</b>	Reported number of cases of malaria during the year for which data reported.

# Statistical Sources For Uganda

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<b>BUCEN - IDB 2000</b>	United States Census Bureau (BUCEN), International Programs Center. International Database. Web site revision dated October 2000.
<b>Uganda DHS 1988-1989</b>	Ministry of Health, and Institute for Resource Development/Macro Systems, Inc. Uganda Demographic and Health Survey 1988/89. Columbia, MD: IRD, 1989.
<b>Uganda DHS 1995</b>	Statistics Department; Demographic and Health Surveys, Macro International Inc. Uganda Demographic and Health Survey 1995, Final Report. Macro International Inc., Calverton, MD, Aug. 1996.
<b>Uganda DHS 2000-2001</b>	Uganda Bureau of Statistics (UBOS) and ORC Macro. Uganda Demographic and Health Survey 2000-2001. Calverton, Maryland, USA: UBOS and ORC Macro, 2001.
<b>UNAIDS 2000</b>	Report on the Global HIV/AIDS Epidemic. June 2000. The Joint United Nations Programme on HIV/AIDS, Geneva.
<b>UNESCO 2000</b>	UNESCO Education for All 2000 Assessment. United Nations Educational, Scientific and Cultural Organization, Paris.
<b>WHO/Global Summary 2001</b>	WHO Vaccine-Preventable Diseases Monitoring System. 2001 Global Summary. World Health Organization, Geneva.
<b>WHO/Hill 2001</b>	Kenneth Hill, Carla Abou Zahr & Tessa Wardlaw: Estimates of Maternal Mortality for 1995. Bulletin of the World Health Organization, vol. 79, no. 3, 182-193, 2001.
<b>WHO/TB Control Report 2001</b>	Global Tuberculosis Control, WHO Report 2000. World Health Organization, Geneva.
<b>World Bank/WDI 2001</b>	World Bank Development Indicators 2001, CD-Rom. Washington, DC: The World Bank, 2001.