

*USAID Country Health Statistical Report*

# Senegal

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**March 2003**



# Table of Contents

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## 1. About the Report

## 2. Country Profile

### I. Statistical Overview

- *Demographic Indicators*
- *Socioeconomic Indicators*
- *Family Planning Indicators*
- *Maternal Health Indicators*
- *Child Survival Indicators*
- *HIV/AIDS Prevention Indicators*
- *Infectious Diseases Control Indicators*

### II. Trends in Health Indicators

- *Current and Projected Population by Age and Sex*  
(Figure 1 and Table 1.1)
- *Population Estimates and Projections*  
(Table 1.2)
- *Estimated Total Fertility Rate per Woman*  
(Figure 2 and Table 2)
- *Infant Mortality Rates / Under-5 Mortality Rates*  
(Figure 3 and Table 3)
- *Vaccination Coverage (DPT3) Trends*  
(Figure 4 and Table 4)
- *Contraceptive Prevalence Rates - Married Women*  
(Figure 5 and Table 5)

## 3. Data Notes

## 4. Sources

# About the Report

Released March 2003

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This report is one of a series of Country Health Statistical Reports produced on behalf of the United States Agency for International Development (USAID) 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 USAID's profiles are available from PHNI'S publications department. Reports are 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. Contact us at the following:



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# I. Statistical Overview

\*see data notes

Demographic Indicators				
Indicator	Value	Data Unit	Year	Source
Total Population	10,580,307		2003	BUCEN-IDB-2002
Population Growth Rate	2.6	%	2003	BUCEN-IDB-2002
Percent Urban	47.4	%	2000	World Bank/WDI-2002
Women, 15-19	599,357		2003	BUCEN-IDB-2002
Women, 15-49	2,584,300		2003	BUCEN-IDB-2002
Life Expectancy at Birth	56.4		2003	BUCEN-IDB-2002
Crude Birth Rate	36.2	per 1,000	2003	BUCEN-IDB-2002
Crude Death Rate	10.9	per 1,000	2003	BUCEN-IDB-2002
Number of Live Births	383,325	000s	2003	BUCEN-IDB-2002

Socioeconomic Indicators				
Indicator	Value	Data Unit	Year	Source
GNI per Capita (PPP)	1,480	\$	2000	World Bank/WDI-2002
Health Expenditure as Percentage of GDP	4.5	%	1998	World Bank/WDI-2002
Health Expenditure as Percentage of GDP	4.5	%	1990-1998	World Bank/WDI-2001
Physicians per 1,000 People	0.09		1998	World Bank/WDI-2002
Physicians per 1,000 People	0.1		1990-1998	World Bank/WDI-2001
Adult Literacy Rate	37.3	%	2000	World Bank/WDI-2002
Adult Literacy Rate, Female	27.6	%	2000	World Bank/WDI-2002
Adult Literacy Rate, Male	47.3	%	2000	World Bank/WDI-2002
Gross Enrollment Rate - Primary School	73.2	%	1999-2000	UNESCO-2002
Gender Parity Index - Net Enrollment Rate	0.88		1999-2000	UNESCO-2002
Access to an Improved Water Source (Rural)	65	%	2000	World Bank/WDI-2001
Access to an Improved Water Source (Urban)	92	%	2000	World Bank/WDI-2001
Access to Improved Sanitation Facilities (Rural)	48	%	2000	World Bank/WDI-2001
Access to Improved Sanitation Facilities (Urban)	94	%	2000	World Bank/WDI-2001

Family Planning Indicators				
Indicator	Value	Data Unit	Year	Source
Total Fertility Rate (BUCEN)	4.9		2003	BUCEN-IDB-2002
Total Fertility Rate (DHS)	5.2		1999	Senegal DHS-1999
Contraceptive Prevalence Rate, Modern Methods, All Women	7.1	%	1999	Senegal DHS-1999
Contraceptive Prevalence Rate, Modern Methods, Married Women	8.2	%	1999	Senegal DHS-1999
Median Age of Sexual Debut Among Women, Ages 25-49	17.3		1997	Senegal DHS-1997
Mean Ideal Family Size	5.3		1997	Senegal DHS-1997
Women 20-24 Who Gave Birth Before Age 20	43.1	%	1997	Senegal DHS-1997

Maternal Health Indicators				
Indicator	Value	Data Unit	Year	Source
Maternal Mortality Ratio (DHS)	555	Per 100,000 live births	1986-1992	Senegal DHS-1992-1993
Maternal Mortality Ratio (WHO/Hill)	1,198	Per 100,000 live births	1995	WHO/Hill-2001
Antenatal Care (at least 1 visit)	82.3	%	1999	Senegal DHS-1999
Antenatal Care (2+ visits)	77.1	%	1999	Senegal DHS-1999
Antenatal Care (4+ visits)	17	%	1997	Senegal DHS-1997
Assisted Delivery by a Health Professional	48.3	%	1999	Senegal DHS-1999
Assisted Delivery by Doctor	2.5	%	1999	Senegal DHS-1999
Assisted Delivery by Other Health Professional	45.8	%	1999	Senegal DHS-1999

Child Survival Indicators				
Indicator	Value	Data Unit	Year	Source
<b>Mortality Indicators</b>				
Under-5 Mortality Rate (UNICEF)	138	per 1,000 live births	2001	UNICEF-2003
<b>Acute Respiratory Infection (ARI) and Oral Rehydration Therapy (ORT)</b>				
ARI Treatment - Children Under 5	30.6	%	1992	Senegal DHS-1992-1993
ORT Use Rate (ORS, RHS, or Increased Fluids)	68.7	%	1999	Senegal DHS-1999
<b>Mortality Indicators</b>				
Infant Mortality Rate (BUCEN)	57.6	per 1,000 live births	2003	BUCEN-IDB-2002
Infant Mortality Rate (DHS)	63.5	per 1,000 live births	1999	Senegal DHS-1999
Infant Mortality Rate, Females (BUCEN)	53.7	per 1,000 live births	2003	BUCEN-IDB-2002
Infant Mortality Rate, Males (BUCEN)	61.3	per 1,000 live births	2003	BUCEN-IDB-2002
Under-5 Mortality Rate (BUCEN)	108	per 1,000 live births	2003	BUCEN-IDB-2002
Under-5 Mortality Rate (DHS)	142.5	per 1,000 live births	1999	Senegal DHS-1999
<b>Nutrition Indicators</b>				
Exclusive Breastfeeding (under 4 mos.)	23.4	%	1999	Senegal DHS-1999
Exclusive Breastfeeding (under 6 mos.)	19.4	%	1999	Senegal DHS-1999
Stunted (height-for-age)	24.7	%	1992	Senegal DHS-1992-1993
Underweight (weight-for-age)	22.2	%	1992	Senegal DHS-1992-1993
Wasted (weight-for-height)	8.4	%	1992	Senegal DHS-1992-1993
<b>Vaccination Coverage</b>				
DPT3 Vaccination Rate (DHS)	50	%	1999	Senegal DHS-1999
Measles Vaccination Rate (DHS)	61.2	%	1999	Senegal DHS-1999
Polio Vaccination Rate (DHS)	58.2	%	1999	Senegal DHS-1999
Tetanus Toxoid Vaccination	62.4 <sup>1</sup>	%	1999	Senegal DHS-1999

<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	0.5	%	2001	UNAIDS-2002
HIV Prevalence, Females 15-24, High Estimates	0.65	%	2001	UNAIDS-2002
HIV Prevalence, Females 15-24, Low Estimates	0.43	%	2001	UNAIDS-2002
HIV Prevalence, Males 15-24, High Estimates	0.22	%	2001	UNAIDS-2002
HIV Prevalence, Males 15-24, Low Estimates	0.15	%	2001	UNAIDS-2002
Males Reporting Condom Use With Last Non-Regular Partner	47.9	%	1999	Senegal DHS-1999
Females Reporting Condom Use With Last Non-Regular Partner	16.7	%	1999	Senegal DHS-1999

Infectious Diseases Control Indicators				
Indicator	Value	Data Unit	Year	Source
TB Estimated Number of Cases	24,617		2000	WHO/TB Control Report-2002
TB Case Detection Rate	47.5	%	1998	WHO/TB Control Report-2001
TB (DOTS) Treatment Success Rate	48.4	%	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)

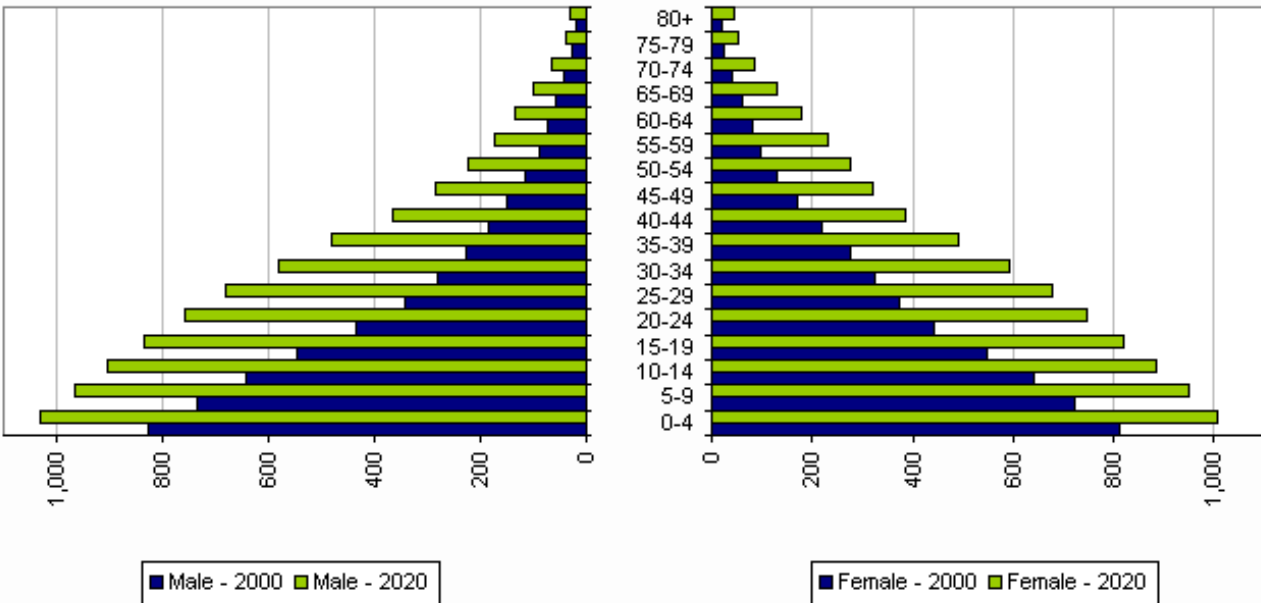


Table 1.1: Current and Projected Population by Age and Sex

Source: BUCEN-IDB

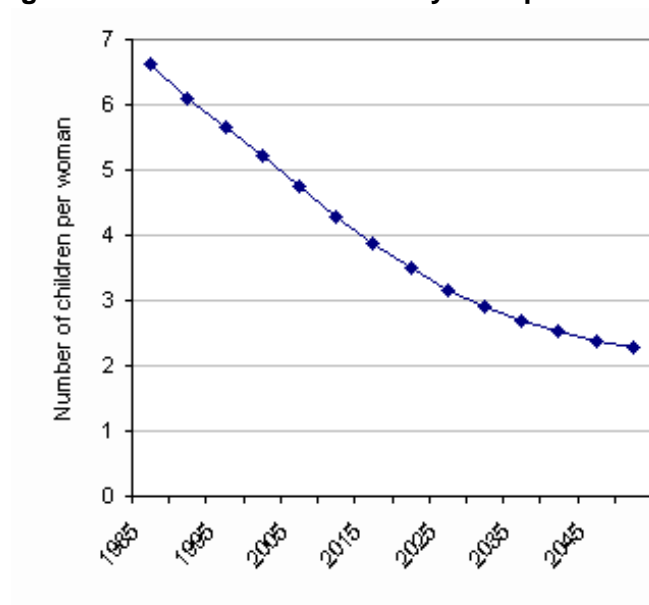
Age Group	Male - 2000	Male - 2020	Female - 2000	Female - 2020
0-4	828,392	1,031,261	811,343	1,008,147
5-9	735,243	966,739	722,970	948,124
10-14	641,729	902,629	641,959	886,821
15-19	547,676	833,707	546,698	820,786
20-24	432,746	757,396	441,458	748,734
25-29	343,687	682,234	372,711	679,368
30-34	278,991	581,716	326,176	591,884
35-39	226,124	479,251	276,114	489,469
40-44	185,892	366,274	219,429	384,799
45-49	151,111	282,818	171,538	319,594
50-54	114,226	223,386	129,427	277,210
55-59	87,055	174,485	97,673	230,987
60-64	73,693	135,081	80,232	176,790
65-69	59,456	99,479	62,802	128,078
70-74	42,482	64,404	41,983	84,602
75-79	26,578	37,885	25,312	50,792
80+	19,930	32,671	21,489	43,903

TABLE 1.2: Population Estimates and Projections

Source: BUCEN-IDB

1950	1960	1970	1980	1990	2000	2010	2020	2030	2040	2050
2,653,637	3,269,808	4,317,891	5,639,785	7,361,663	9,784,325	12,534,022	15,521,504	18,583,728	21,615,622	24,577,651

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

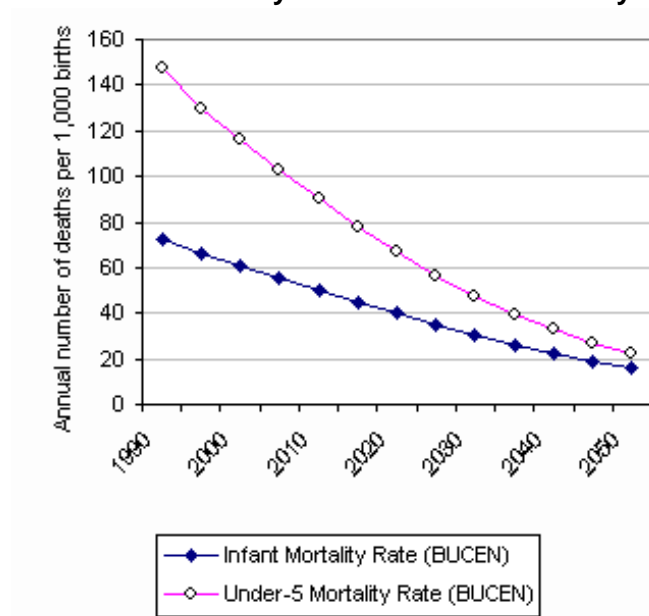


**Table 2: Estimated Total Fertility Rate per Woman**

Source: BUCEN-IDB

1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050
6.6	6.1	5.7	5.2	4.8	4.3	3.9	3.5	3.2	2.9	2.7	2.5	2.4	2.3

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

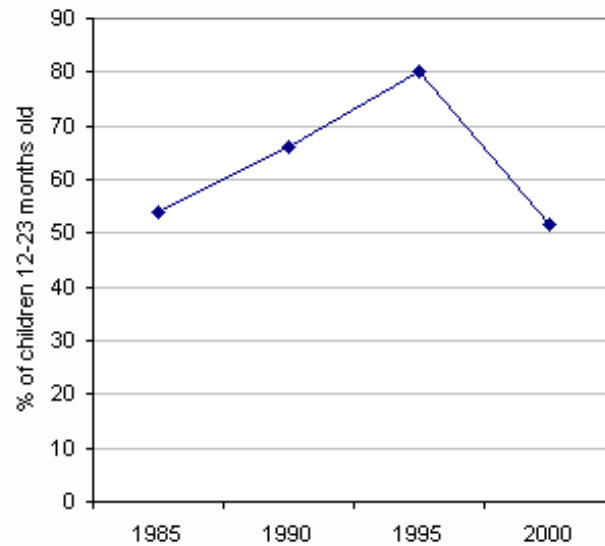


**Table 3: Infant Mortality Rates / Under-5 Mortality Rates**

Source: BUCEN-IDB 2002

Indicator	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050
Infant Mortality Rate (BUCEN)	72.6	65.9	60.8	55.5	50.4	45.0	39.8	34.8	30.2	26.0	22.2	18.8	16.0
Under-5 Mortality Rate (BUCEN)	147.7	129.8	116.4	102.7	90.3	78.1	66.9	56.7	47.7	39.7	32.8	26.9	22.1

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

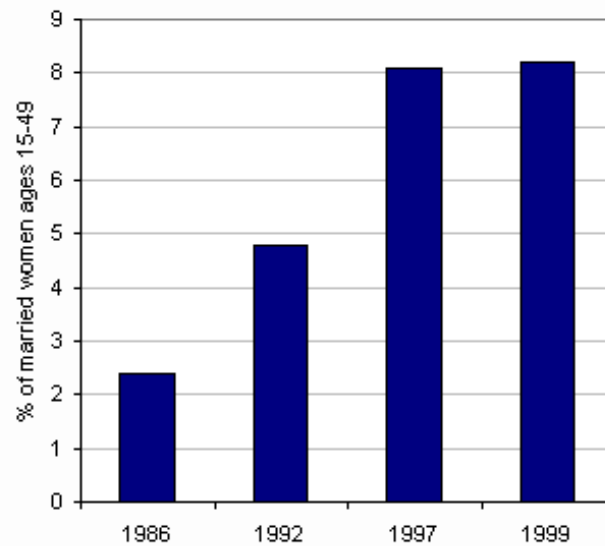


**Table 4: Vaccination Coverage (DPT3) Trends**

Source: WHO/Global Summary

1985	1990	1995	2000
54.0	66.0	80.0	51.8

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



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

Source: Senegal DHS

1986	1992	1997	1999
2.4	4.8	8.1	8.2

# 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>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>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.
<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>Under-5 Mortality Rate (UNICEF)</b>	Annual number of deaths that occur in children 0-4 years old per 1,000 births (five-year period preceding survey).
<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 Estimated Number of Cases</b>	The estimated number of cases (all forms).
<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 Senegal

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<b>BUCEN-IDB 2002</b>	United States Census Bureau (BUCEN), International Programs Center. International Database. December 2002.
<b>Senegal DHS 1986</b>	Ministere de l'Economie et des Finances, and Institute for Resource Development/Westinghouse. Enquete Demographique et de Sante au Senegal 1986. Columbia, MD: IRD, 1988.
<b>Senegal DHS 1992-1993</b>	Ministere de l'Economie, des Finances et du Plan, Direction de la Prevision et de la Statistique, Division des Statistiques Demographiques and Demographic and Health Surveys, Macro International Inc. Enquete Demographique et de Sante Senegal 1992-93 (EDS)
<b>Senegal DHS 1997</b>	Ministere de l'Economie, des Finances et du Plan and Macro International Inc., Enquete Demographique et de Sante au Senegal (EDS-III) 1997, Ministere de l'Economie, des Finance et du Plan, Dakar, and Macro, Calverton, Maryland, USA, December 1997
<b>Senegal DHS 1999</b>	Ministere de la Sante, SERDHA et Macro International Inc. 2000. Enquete Senegalaise sure les Indicateurs de Sante, 1999. Calverton, Maryland USA: SERDHA et Macro International Inc.
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