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USAID Country Health Statistical Report

# Nicaragua

May 2008



# 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 May 2008

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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 Analysis, Information Management and Communication Activity (AIM) 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 AIM'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 AIM'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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The Analysis, Information Management & Communications (AIM) Activity, a USAID contract managed by MasiMax Resources, Inc, with John Snow, Inc., ORC Macro, and Insight Systems Corporation prepared this document under task order number GPO-M-00-05-00043-00, with the Bureau for Global Health, USAID.

# I. Statistical Overview

\*see data notes

Demographic Indicators				
Indicator	Value	Data Unit	Year	Source
Total Population	5,780,586		2008	BUCEN-IDB-2008
Population Growth Rate	1.8	%	2008	BUCEN-IDB-2008
Percent Urban	58	%	2004	World Bank/WDI-2006
Women, 15-19	337,355		2008	BUCEN-IDB-2008
Women, 15-49	1,577,876		2008	BUCEN-IDB-2008
Life Expectancy at Birth	71.2		2008	BUCEN-IDB-2008
Crude Birth Rate	23.7	per 1,000	2008	BUCEN-IDB-2008
Crude Death Rate	4.4	per 1,000	2008	BUCEN-IDB-2008
Number of Live Births	137,115		2008	BUCEN-IDB-2008
Healthy Life Expectancy: Female	63.1		2002	WHO World Health Report-2004
Healthy Life Expectancy: Male	59.7		2002	WHO World Health Report-2004
Population: Percent < Age 15	34.6	%	2008	BUCEN-IDB-2008

Socioeconomic Indicators				
Indicator	Value	Data Unit	Year	Source
GNI per Capita (PPP)	3,650 <sup>1</sup>	\$	2005	World Bank/WDI-2006
Health Expenditure as Percentage of GDP	7.7	%	2003	World Bank/WDI-2006
Physicians per 1,000 People	1.6	per 1,000	2003	World Bank/WDI-2005
Adult Literacy Rate	76.7	%	2004	World Bank/WDI Database-2007
Adult Literacy Rate, Female	77 <sup>2</sup>	%	2002	World Bank/WDI-2006
Adult Literacy Rate, Male	77 <sup>3</sup>	%	2002	World Bank/WDI-2006
Gross Enrollment Ratio - Primary School	111.8	%	2005	UNESCO EFA Global Monitoring Report-2008
Gender Parity Index - Net Enrollment Ratio	0.98		2005	UNESCO EFA Global Monitoring Report-2008
Access to an Improved Water Source (Rural)	65	%	2002	World Bank/WDI-2005
Access to an Improved Water Source (Urban)	93	%	2002	World Bank/WDI-2005
Access to Improved Sanitation Facilities (Rural)	51	%	2002	World Bank/WDI-2005
Access to Improved Sanitation Facilities (Urban)	78	%	2002	World Bank/WDI-2005
Population Living Below \$1 a Day	45.1	%	1990-2005	Human Development Report - 2007/2008-2008
Human Development Index	0.71		2005	Human Development Report - 2007/2008-2008
Population Below Poverty Line	48	%	2005	CIA World Factbook-2008
Real GDP (Growth) Rate	2.9 <sup>4</sup>	%	2007	CIA World Factbook-2008
Income Inequality (Gini index)	43.1		2001	CIA World Factbook-2008
Unemployment Rate	5.6 <sup>5</sup>	%	2007	CIA World Factbook-2008
Inflation Rate	9.8 <sup>6</sup>	%	2007	CIA World Factbook-2008
Airports	163		2007	CIA World Factbook-2008
Airports with paved runways	11		2007	CIA World Factbook-2008

<sup>1</sup> Estimate is based on regression; other PPP figures are extrapolated from the latest International Comparison Programme benchmark estimates.

<sup>2</sup> Based on survey data.

<sup>3</sup> Based on survey data

<sup>4</sup> estimate

<sup>5</sup> estimate. plus underemployment of 46.5%

<sup>6</sup> Estimate

Family Planning Indicators				
Indicator	Value	Data Unit	Year	Source
Total Fertility Rate (BUCEN)	2.6		2008	BUCEN-IDB-2008
Total Fertility Rate (DHS)	3.2		2001	Nicaragua DHS-2001
Contraceptive Prevalence Rate, Modern Methods, All Women	43.9	%	2001	Nicaragua DHS-2001
Contraceptive Prevalence Rate, Modern Methods, Married Women	66.1	%	2001	Nicaragua DHS-2001
Median Age of Sexual Debut Among Women, Ages 25-49	17.8		2001	Nicaragua DHS-2001
Mean Ideal Family Size	2.9		2001	Nicaragua DHS-2001
Women 20-24 Who Gave Birth Before Age 20	47.9	%	2001	Nicaragua DHS-2001
Total Fertility Rate, Rural	4.4		2001	DHS STATcompiler as of March 2008-2008
Unmet Need for Family Planning: Rural	18.7	%	2001	DHS STATcompiler as of March 2008-2008
Unmet Need for Family Planning: Urban	11.5	%	2001	DHS STATcompiler as of March 2008-2008
Contraceptive Prevalence Rate, All Methods	68.6	%	2001	DHS STATcompiler as of March 2008-2008
Equity in use of modern contraception	Data Not Available			
Percent of need satisfied by modern methods of family planning	Data Not Available			

Maternal Health Indicators				
Indicator	Value	Data Unit	Year	Source
Maternal Mortality Ratio (WHO/Hill)	170	Per 100,000 live births	2005	WHO/Hill-2005
Maternal Mortality Ratio (DHS)	Data Not Available			
Antenatal Care (at least 1 visit)	85.2 <sup>1</sup>	%	2001	Nicaragua DHS-2001
Antenatal Care (2+ visits)	82.5 <sup>2</sup>	%	2001	Nicaragua DHS-2001
Antenatal Care (4+ visits)	71.6 <sup>3</sup>	%	2001	Nicaragua DHS-2001
Assisted Delivery by a Health Professional	89.6	%	2001	Nicaragua DHS-2001
Assisted Delivery by Doctor	64.1	%	2001	Nicaragua DHS-2001
Assisted Delivery by Other Health Professional	25.5	%	2001	Nicaragua DHS-2001
Anemia prevalence among women of reproductive age	Data Not Available			
Equity in skilled attendance at delivery	Data Not Available			

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

<sup>2</sup> The value for this country represents data from the five-year period preceding the survey.

<sup>3</sup> The value for this country represents data from the five-year period preceding the survey.

Child Survival Indicators				
Indicator	Value	Data Unit	Year	Source
<b>Acute Respiratory Infection (ARI) and Oral Rehydration Therapy (ORT)</b>				
ARI Care Seeking - Children Under 5	57.4	%	2001	Nicaragua DHS-2001
ORT Use Rate (ORS, RHS, or Increased Fluids)	67.7	%	2001	Nicaragua DHS-2001
<b>Mortality Indicators</b>				
Infant Mortality Rate (BUCEN)	26.2	per 1,000 live births	2008	BUCEN-IDB-2008
Infant Mortality Rate (UNICEF)	29		2006	UNICEF-2008
Infant Mortality Rate (DHS)	31	per 1,000 live births	2001	Nicaragua DHS-2001
Infant Mortality Rate, Females (BUCEN)	22.8	per 1,000 live births	2008	BUCEN-IDB-2008
Infant Mortality Rate, Males (BUCEN)	29.4	per 1,000 live births	2008	BUCEN-IDB-2008
Under-5 Mortality Rate (BUCEN)	34	per 1,000 live births	2006	BUCEN-IDB-2006
Neonatal Mortality Rate	16	per 1000	2001	DHS STATcompiler as of January 2007-2007
Under-5 Mortality Rate (UNICEF)	36	per 1,000 live births	2006	UNICEF-2008
Under-5 Mortality Rate (DHS)	40	per 1,000 live births	2001	Nicaragua DHS-2001
<b>Nutrition Indicators</b>				
Exclusive Breastfeeding (under 4 mos.)	39.3	%	2001	Nicaragua DHS-2001
Exclusive Breastfeeding (under 6 mos.)	31.1	%	2001	Nicaragua DHS-2001
Stunted (height-for-age)	20.2	%	2001	Nicaragua DHS-2001
Underweight (weight-for-age)	9.6	%	2001	Nicaragua DHS-2001
Wasted (weight-for-height)	2	%	2001	Nicaragua DHS-2001
<b>Vaccination Coverage</b>				
DPT3 Vaccination Rate (DHS)	82.7 <sup>1</sup>	%	2001	Nicaragua DHS-2001
DPT3 Vaccination Rate (WHO)	87	%	2006	WHO/Global Summary-2008
Measles Vaccination Rate (DHS)	86.4 <sup>2</sup>	%	2001	Nicaragua DHS-2001
Measles Vaccination Rate (WHO)	99	%	2006	WHO/Global Summary-2008
Polio Vaccination Rate (DHS)	84.7 <sup>3</sup>	%	2001	Nicaragua DHS-2001
Polio Vaccination Rate (WHO)	88	%	2006	WHO/Global Summary-2008
Tetanus Toxoid Vaccination	42.4 <sup>4</sup>	%	2001	Nicaragua DHS-2001
Equity in DPT3 coverage (DHS)	Data Not Available			
Improved sanitation/hygiene practices	Data Not Available			
Vitamin A supplementation coverage among children 6-59 months	Data Not Available			

<sup>1</sup> The value for this country represents data from children 18-29 months old.

<sup>2</sup> The value for this country represents data from children 18-29 months old.

<sup>3</sup> The value for this country represents data from children 18-29 months old.

<sup>4</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 proportion: Adults (15–49 years)	0.2	%	2005	UNAIDS 2006-2006
Estimated number of people living with HIV: Adults and Children	7,300		2005	UNAIDS 2006-2006
Estimated number of people living with HIV: Women (15+ years)	1,700		2005	UNAIDS 2006-2006
Estimated number of people living with HIV: Children (0–14 years)	Data Not Available			
Males Reporting Condom Use With Last Non-Regular Partner	Data Not Available			
Females Reporting Condom Use With Last Non-Regular Partner	13.8	%	2001	Nicaragua DHS-2001

Infectious Diseases Control Indicators				
Indicator	Value	Data Unit	Year	Source
TB Estimated Number of Cases	3,203		2006	WHO Global Health Atlas-2008
TB Case Detection Rate	89	%	2006	WHO Global Health Atlas-2008
TB (DOTS) Treatment Success Rate	85	%	2005	WHO Global Health Atlas-2008
Malaria Cases per 100,000	124 <sup>1</sup>	per 100,000	2003	WHO Global Health Atlas-2008
DOTS Coverage	80	%	2006	WHO Global Health Atlas-2008
HIV-Infected with Active TB	0.8	%	2006	WHO Global Health Atlas-2008
Avian Influenza: Cumulative Number of Confirmed Human Cases	Data Not Available			
Avian Influenza: Cumulative Number of Confirmed Human Deaths	Data Not Available			
Child Sleeps Under Insecticide-Treated Net	Data Not Available			
Equity in Bednet (ITN) Ownership	Data Not Available			

<sup>1</sup> Calculated using (100,000/WHO population)xMalaria Reported # of Cases



## II. Trends in Health Indicators

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

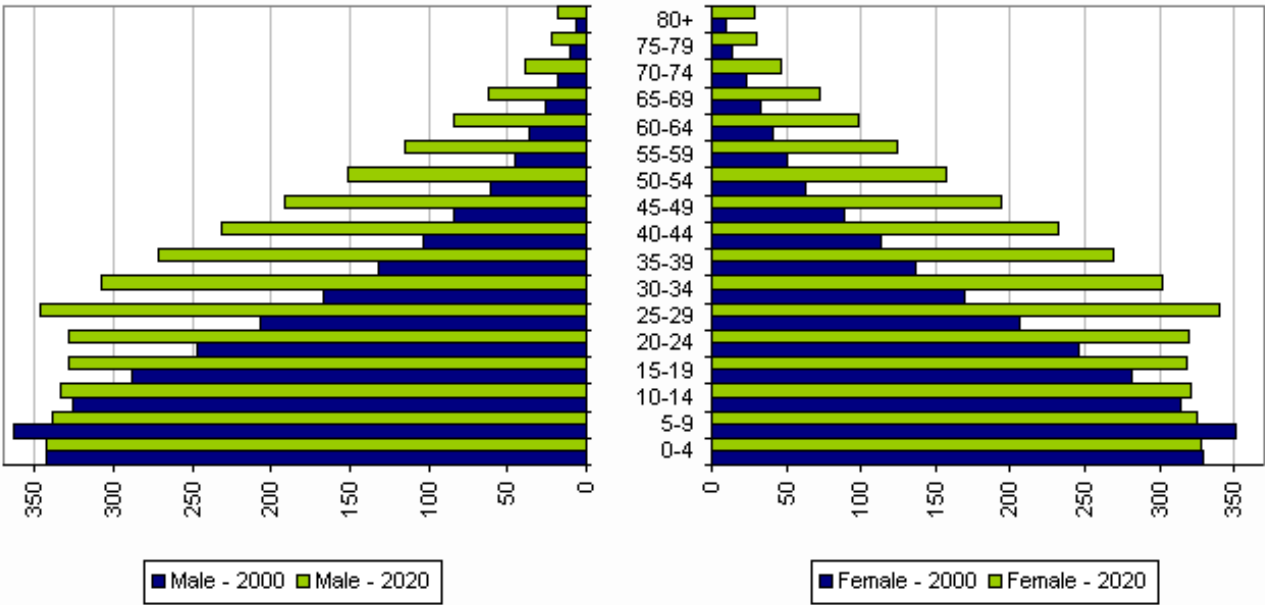


Table 1.1: Current and Projected Population by Age and Sex

Source: BUCEN-IDB

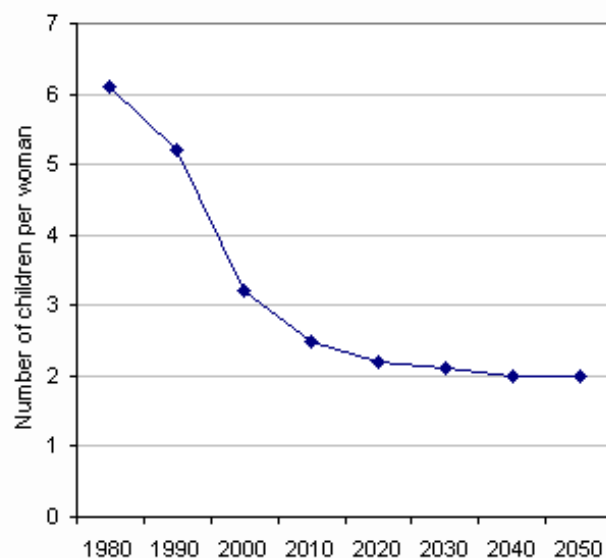
Age Group	Male - 2000	Male - 2020	Female - 2000	Female - 2020
0-4	342,697	342,504	329,552	328,015
5-9	363,016	338,756	350,321	325,373
10-14	325,521	333,606	314,539	321,494
15-19	289,045	328,752	281,237	318,233
20-24	247,664	328,480	245,304	320,020
25-29	206,678	346,393	206,286	339,454
30-34	166,798	307,482	169,271	302,360
35-39	132,238	271,043	136,472	268,365
40-44	103,559	231,070	112,676	232,785
45-49	84,382	191,201	89,304	194,227
50-54	60,667	151,163	62,902	157,132
55-59	45,721	115,266	50,072	123,816
60-64	36,771	84,702	40,573	98,326
65-69	26,131	62,545	32,150	73,035
70-74	18,016	38,379	23,232	45,987
75-79	10,258	22,503	13,924	30,413
80+	6,172	18,302	9,271	28,495

TABLE 1.2: Population Estimates and Projections

Source: BUCEN-IDB

1960	1970	1980	1990	2000	2010	2020	2030	2040	2050
1,492,698	2,052,544	2,805,321	3,683,746	4,932,420	5,989,852	7,019,677	7,968,947	8,777,972	9,437,504

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

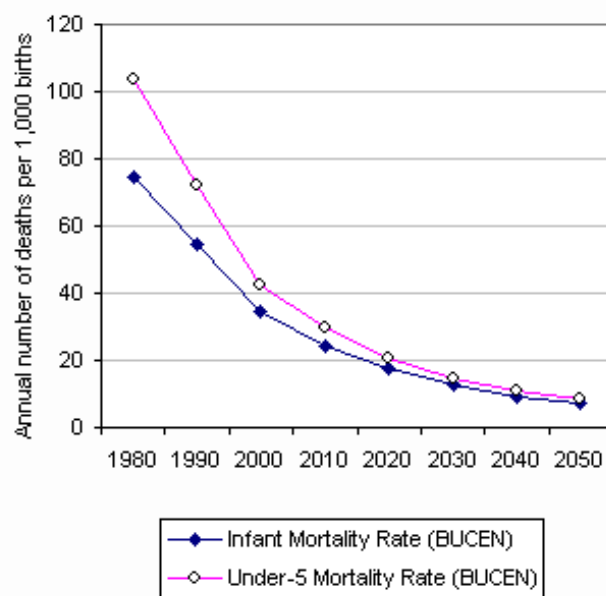


**Table 2: Estimated Total Fertility Rate per Woman**

Source: BUCEN-IDB

1980	1990	2000	2010	2020	2030	2040	2050
6.1	5.2	3.2	2.5	2.2	2.1	2.0	2.0

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

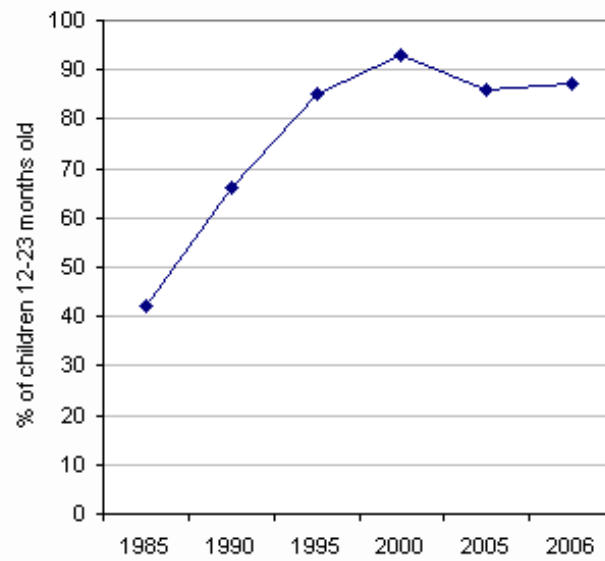


**Table 3: Infant Mortality Rates / Under-5 Mortality Rates**

Source: BUCEN-IDB 2008

Indicator	1980	1990	2000	2010	2020	2030	2040	2050
Infant Mortality Rate (BUCEN)	74.7	54.4	34.7	24.4	17.3	12.5	9.3	7.3
Under-5 Mortality Rate (BUCEN)	103.8	72.2	42.4	29.4	20.5	14.6	10.8	8.3

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

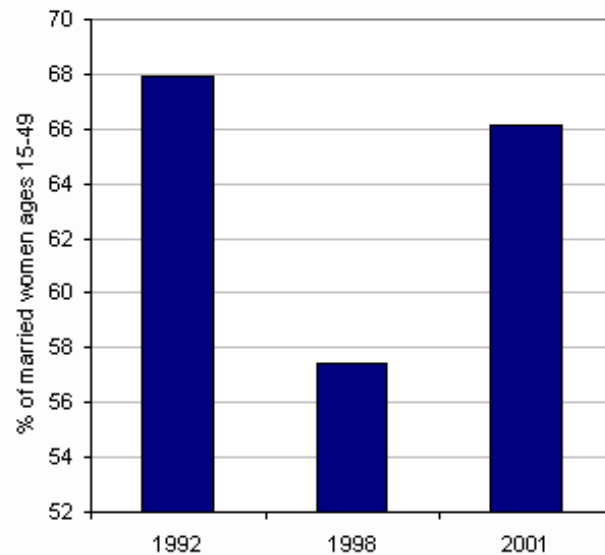


**Table 4: Vaccination Coverage (DPT3) Trends**

Source: WHO/Global Summary

1985	1990	1995	2000	2005	2006
42.0	66.0	85.0	93.0	86.0	87.0

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



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

Source: FHS/Nicaragua

Nicaragua DHS

1992	1998	2001
67.9	57.4	66.1



# 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.
<b>Healthy Life Expectancy: Female</b>	The number of years of in full health that a female newborn can expect to live based on current rates of ill-health and mortality. HALE is based on life expectancy at birth but includes an adjustment for time spent in poor health.
<b>Healthy Life Expectancy: Male</b>	The number of years of in full health that a male newborn can expect to live based on current rates of ill-health and mortality. HALE is based on life expectancy at birth but includes an adjustment for time spent in poor health.
<b>Population: Percent &lt; Age 15</b>	Percent of population less than 15 years of age.

## 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 Ratio - Primary School</b>	Total enrolment in primary level of education, regardless of age, expressed as a percentage of the population in the official age group corresponding to primary level of education. The GER can exceed 100% due to late entry or/and repetition.
<b>Gender Parity Index - Net Enrollment Ratio</b>	The ratio of the female-to-male values (or male to female, in certain cases) of net primary school enrollment rates (NER). NER measures the number of pupils in the official age group for a given level of education, expressed as a percentage of the population in that age group.
<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.
<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.
<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>Population Living Below \$1 a Day</b>	The percentage of the population living below the specified poverty line of \$1 a day at 1985 international prices (equivalent to \$1.08 at 1993 international prices), adjusted for purchasing power parity.
<b>Human Development Index</b>	The HDI is a composite index that measures the average achievements in a country in three basic dimensions of human development: a long and healthy life, as measured by life expectancy at birth; knowledge, as measured by the adult literacy rate and the combined gross enrollment ratio for primary, secondary, and tertiary schools; and a decent standard of living, as measured by gross domestic product (GDP) per capita in purchasing power parity (PPP) US dollars.
<b>Population Below Poverty Line</b>	National estimates of the percentage of the population falling below the poverty line are based on surveys of sub-groups, with the results weighted by the number of people in each group. Definitions of poverty vary considerably among nations. For example, rich nations generally employ more generous standards of poverty than poor nations.
<b>Real GDP (Growth) Rate</b>	This entry gives the gross domestic product (GDP) growth on an annual basis adjusted for inflation and expressed as a percent.
<b>Income Inequality (Gini index)</b>	This index measures the degree of inequality in the distribution of family income in a country. It is calculated from the Lorenz curve, in which cumulative family income is plotted against the number of families arranged from the poorest to the richest. The index is the ratio of (a) the area between a country's Lorenz curve and the 45 degree helping line to (b) the entire triangular area under the 45 degree line. The more nearly equal a country's income distribution, the closer its Lorenz curve to the 45 degree line and the lower its Gini index, e.g., a Scandinavian country with an index of 25. The more unequal a country's income distribution, the higher its Gini index, e.g., a Sub-Saharan country with an index of 50. If income were distributed with perfect equality, the index would be zero; if income were distributed with perfect inequality, the index would be 100.
<b>Unemployment Rate</b>	This entry contains the percent of the labor force that is without jobs. Substantial underemployment might be noted.
<b>Inflation Rate</b>	This entry furnishes the annual percent change in consumer prices compared with the previous year's consumer prices.

**Airports** This entry gives the total number of airports or airfields recognizable from the air. The runway(s) may be paved (concrete or asphalt surfaces) or unpaved (grass, earth, sand, or gravel surfaces) but may include closed or abandoned installations. Airports or airfields that are no longer recognizable (overgrown, no facilities, etc.) are not included. Note that not all airports have accommodations for refueling, maintenance, or air traffic control.

**Airports with paved runways** This entry gives the total number of airports with paved runways (concrete or asphalt surfaces) by length. For airports with more than one runway, only the longest runway is included according to the following five groups - (1) over 3,047 m, (2) 2,438 to 3,047 m, (3) 1,524 to 2,437 m, (4) 914 to 1,523 m, and (5) under 914 m. Only airports with usable runways are included in this listing. Not all airports have facilities for refueling, maintenance, or air traffic control.

### **Family Planning Indicators**

**Total Fertility Rate (BUCEN)** The number of children a woman between ages 15-49 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.

**Total Fertility Rate (DHS)** 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.

**Contraceptive Prevalence Rate, Modern Methods, All Women** 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).

**Contraceptive Prevalence Rate, Modern Methods, Married Women** Percent of currently married 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).

**Median Age of Sexual Debut Among Women, Ages 25-49** Median age of first sexual intercourse for women ages 25-49.

**Mean Ideal Family Size** Mean ideal number of children for all women, according to number of living children.

**Women 20-24 Who Gave Birth Before Age 20** Percentage of women ages 20-24 who have given birth before age 20.

**Total Fertility Rate, Rural** In rural areas only, 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.

**Unmet Need for Family Planning: Rural** In rural areas, percentage of married women ages 15-49 with unmet need for family planning. Unmet need for spacing includes pregnant women whose pregnancy was mistimed, amenorrheic women who are not using family planning and whose last birth was mistimed, and fecund women who are neither pregnant nor amenorrheic and who are not using any method of family planning and say they want to wait 2 or more years for their next birth. Also included are fecund women who are not using any method of family planning and say they are unsure whether they want another child or who want another child but are unsure when to have the birth unless they say it would not be a problem if they discovered they were pregnant in the next few weeks. Unmet need for limiting refers to pregnant women whose pregnancy was unwanted, amenorrheic women whose last child was unwanted, and fecund women who are neither pregnant nor amenorrheic and who are not using any method of family planning and want no more children.

**Unmet Need for Family Planning: Urban** In urban areas, percentage of married women ages 15-49 with unmet need for family planning. Unmet need for spacing includes pregnant women whose pregnancy was mistimed, amenorrheic women who are not using family planning and whose last birth was mistimed, and fecund women who are neither pregnant nor amenorrheic and who are not using any method of family planning and say they want to wait 2 or more years for their next birth. Also included are fecund women who are not using any method of family planning and say they are unsure whether they want another child or who want another child but are unsure when to have the birth unless they say it would not be a problem if they discovered they were pregnant in the next few weeks. Unmet need for limiting refers to pregnant women whose pregnancy was unwanted, amenorrheic women whose last child was unwanted, and fecund women who are neither pregnant nor amenorrheic and who are not using any method of family planning and want no more children.

<b>Contraceptive Prevalence Rate, All Methods</b>	Percentage of currently married women ages 15-49 currently using ANY method of contraception.
<b>Equity in use of modern contraception</b>	Contraceptive prevalence rate in the lowest wealth quintile/contraceptive prevalence rate in the highest wealth quintile.
<b>Percent of need satisfied by modern methods of family planning</b>	Number of women in union who are fecund and are currently using modern contraceptive methods to stop or postpone the next pregnancy/number of women in union who are fecund and who desire to either terminate childbearing or to postpone their next birth for 2 years or more.

### **Maternal Health Indicators**

<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. The margins of uncertainty associated with the estimated maternal mortality ratios are very large and the estimates should not be used to monitor trends in the short term (including comparisons between 1995 and 2000 estimates). In addition, cross-country comparisons should be treated with considerable circumspection because different strategies are used to derive the estimates for different countries rendering comparisons fraught with difficulty. For further information please refer to the source.
<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 the "sisterhood method". The data are aggregated based on different time periods ranging from four to ten years preceding the survey. Thus, the data may not be suitable for trend analysis due to over-lapping year ranges of estimates. For further information on methodology please refer to: Stanton, Cynthia, Nouredine Abderrahim, and Kenneth Hill. 1997. DHS Maternal Mortality Indicators: An assessment of Data Quality and Implications for Data Use. Calverton: Macro International Inc., or individual country DHS reports.
<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, or midwives.
<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 or midwife during the five-year period preceding the survey.
<b>Anemia prevalence among women of reproductive age</b>	Number of women of reproductive age (15-49 years) with anemia/number of women of reproductive age (15-49 years).
<b>Equity in skilled attendance at delivery</b>	Percentage of births in the lowest wealth quintile attended by a doctor, nurse, or trained midwife/percentage of births in the highest wealth quintile attended by a doctor, nurse, or trained midwife.

### **Child Survival Indicators**

<b>ARI Care Seeking - 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, for whom care was sought from a health facility or provider.
<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 (UNICEF)</b>	The under five mortality rate is the probability (as expressed as a rate per 1,000 live births) of a child born in a specified year dying before reaching the age of one if subject to current age-specific mortality rates.
<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 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>Neonatal Mortality Rate</b>	The estimated number of infant deaths in the first month of life per 1,000 live births in the five-year period preceding the survey.
<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>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>DPT3 Vaccination Rate (WHO)</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 12-23 months old who have received one dose of Measles Containing Vaccine.
<b>Measles Vaccination Rate (WHO)</b>	Percentage of living children 12-23 months old who have received one dose of Measles Containing Vaccine.
<b>Polio Vaccination Rate (DHS)</b>	Proportion of living children 12-23 months who have received three doses of polio vaccine.
<b>Polio Vaccination Rate (WHO)</b>	Proportion of living children 12-23 months who have received 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).
<b>Equity in DPT3 coverage (DHS)</b>	DPT3 coverage in the lowest wealth quintile/DPT3 coverage in the highest wealth quintile.
<b>Improved sanitation/hygiene practices</b>	Number of households with child under 5 years of age whose youngest child's feces was safely disposed of the last time he/she passed stool/total number of households with a child under 5 years of age.

**Vitamin A supplementation coverage among children 6-59 months**

Number of children aged 6-59 months who received a vitamin A supplement in the last 6 months/total number of children aged 6-59 months surveyed.

***HIV/AIDS Prevention Indicators***

**HIV Prevalence proportion: Adults (15–49 years)**

The adult HIV prevalence proportion is the estimated number of adults living with HIV divided by the adult population (aged 15–49).

**Estimated number of people living with HIV: Adults and Children**

Estimated number of adults and children living with HIV. Adults are 15 years and over. Children are defined as those aged 0–14 years.

**Estimated number of people living with HIV: Women (15+ years)**

Estimated number of women (aged 15 and over) living with HIV.

**Estimated number of people living with HIV: Children (0–14 years)**

Estimated number of children under age 15 living with HIV.

**Males Reporting Condom Use With Last Non-Regular Partner**

Among men who have had high risk sex in the last year, percentage who used condoms during their last sexual intercourse with a non-regular partner/non-cohabitating partner.

**Females Reporting Condom Use With Last Non-Regular Partner**

Among women who have had high risk 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***

**TB Estimated Number of Cases**

The estimated number of cases (all forms).

**TB Case Detection Rate**

TB Case Detection Rate is defined as the percentage of the annual new smear-positive notifications of the estimated annual new smear-positive incidence.

**TB (DOTS) Treatment Success Rate**

The proportion of smear-positive patients who were cured plus the proportion who completed treatment.

**Malaria Cases per 100,000**

Number of malaria cases per 100,000 of the population during the year for which data was reported.

**DOTS Coverage**

The percentage of the national population living in areas where health services have adopted DOTS. "Areas" are the lowest administrative or management units in the country (townships, districts, counties, etc). If an area is considered a DOTS area, then all cases registered and reported in that area are considered DOTS cases and the population living within the boundaries of that area counts toward national DOTS coverage. As a measure of patient access to diagnosis and treatment under DOTS, coverage is an approximation, and usually an overestimate.

**HIV-Infected with Active TB**

The TB incidence rate in HIV-infected people 15-49 divided by the incidence rate in HIV-uninfected people 15-49.

**Avian Influenza: Cumulative Number of Confirmed Human Cases**

The cumulative number of confirmed human cases of Avian Influenza A/(H5N1) reported to WHO. The total number of cases includes number of deaths. WHO reports only laboratory-confirmed cases.

**Avian Influenza: Cumulative Number of Confirmed Human Deaths**

The cumulative number of confirmed human deaths from Avian Influenza A/(H5N1) reported to WHO. WHO reports only laboratory-confirmed cases and deaths.

**Child Sleeps Under Insecticide-Treated Net**

Percentage of children under five years of age who slept under an Insecticide Treated Net (ITN) the night before the survey. An ITN is (1) a permanent net that does not require any treatment, or (2) a pretreated net obtained within the last six months, or (3) a net that has been soaked with insecticide within the past six months.

**Equity in Bednet (ITN) Ownership**

Proportion of households in the lowest income quintile with an ITN / proportion of households in the highest income quintile with an ITN.

# Statistical Sources For Nicaragua

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