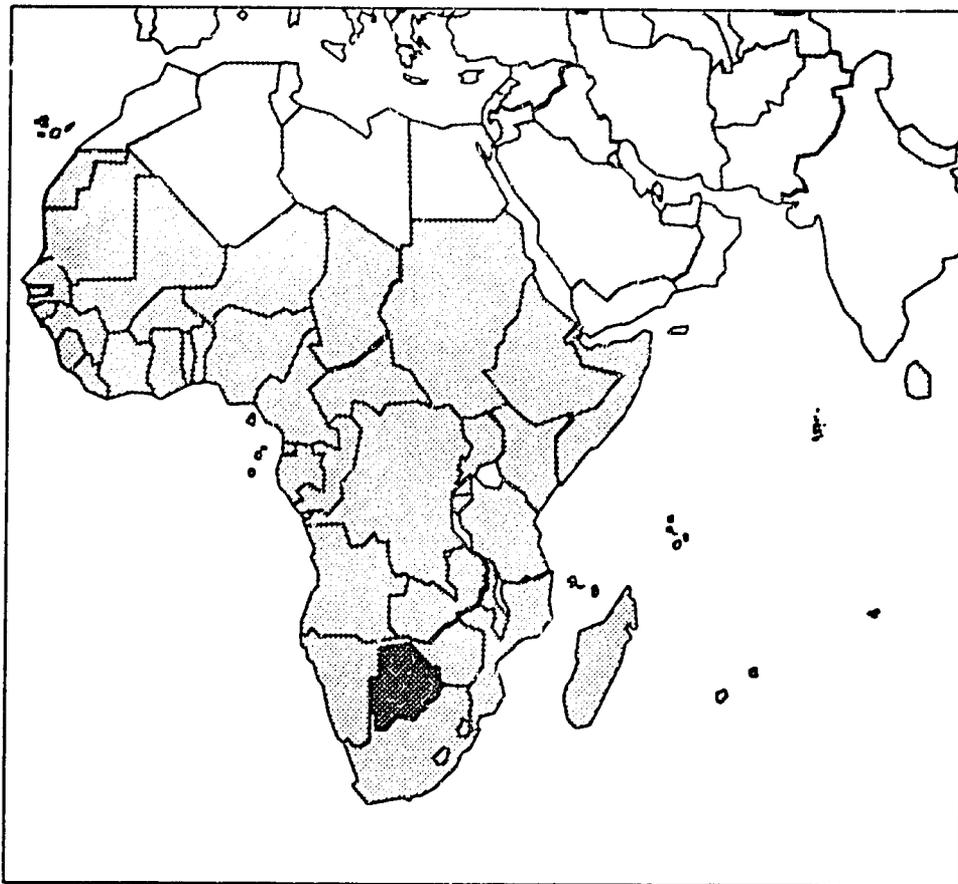


Country Health Profile

BOTSWANA

Health Situation & Statistics Report 1994



**Center for International Health Information
1601 N. Kent Street, Suite 1001
Arlington, VA 22209**

The Center for International Health Information (CIHI), a project managed by Information Management Consultants, Inc. (IMC), prepared this document under the Data for Decision Making Project, #936-5991.05 (CIHI-II), contract number HRN-5991-C-00-3041-00, with the Office of Health and Nutrition, Center for Population, Health and Nutrition, Bureau for Global Programs, Field Support and Research, U.S. Agency for International Development (USAID).

**The Center for International Health Information
1601 N. Kent Street, Suite 1001
Arlington, VA 22209
(703) 524 - 5225
FAX (703) 243 - 4669
E-Mail address: cihi@gaia.info.usaid.gov**

BOTSWANA

Country Health Profile

This is one of a series of Country Health Profiles produced by the Center for International Health Information (CIHI). Each profile contains descriptive information and tables on the country's health and demographic characteristics, health indicators and trends, and when available, the health care system. Profile information is compiled from CIHI's databases and reference library, as well as through research and analysis of other data sources and reports.

The profiles are intended to provide current and trend data in a concise format for policy and decision-making, planning and evaluation, and monitoring of health status for use by individuals and organizations. Contact CIHI at the address on the preceding page for information on the availability of other health profiles and standard reports.

This profile contains national level health and demographic statistics available in CIHI's databases as of the date noted in each section. In order to enable CIHI to report the most current health and demographic statistics, please provide any more recent or more accurate data by contacting the center at the address on the previous page or through USAID, Office of Health and Nutrition, Center for Population, Health and Nutrition, Bureau for Global Programs, Field Support and Research.

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* Sources in this profile are referred to by a seven-digit code. Generally, the first three letters refer to an organization, agency, etc., and the first two numbers indicate the year of the publication or other source document. A complete list of sources appears at the end of the profile.

I: HEALTH & DEMOGRAPHIC OVERVIEW

Current Demographic and Health Indicators

JULY 1994

Demographic Indicators			
INDICATOR	VALUE	YEAR	SOURCE
Total Population	1,355,000	1993	UNP9200
Urban Population	388,800	1993	UNP9200
Women Ages 15-49	327,000	1993	UNP9200
Infant Mortality	37	1986	DHS8902
Under 5 Mortality	53	1986	DHS8902
Maternal Mortality	300	1985	WHM9141
Life Expectancy At Birth	61	1993	UNP9200
Number of Births	51,752	1993	UNP9200
Annual Infant Deaths	1,936	1993	CALXX01
Total Fertility Rate	5.0	1993	UNP9200

Child Survival Indicators			
INDICATOR	PERCENT	YEAR	SOURCE
Vaccination Coverage			
BCG	50	1992	WHE9301
DPT 3	59	1992	WHE9301
Measles	58	1992	WHE9301
Polio 3	58	1992	WHE9301
Tetanus 2	46	1992	WHE9301
DPT Drop Out	NA		
Oral Rehydration Therapy			
ORS Access Rate	95	1991	WHD9201
ORS and/or RHF Use	64	1991	WHD9201
Contraceptive Prevalence			
Modern Methods (15-44)	32	1988	DHS8902
All Methods (15-44)	33	1988	DHS8902
Nutrition			
Adequate Nutritional Status	NA		
Appropriate Infant Feeding	NA		
A) Exclusive Breastfeeding	41	1988	DHS8902
B) Complementary Feeding	82	1988	DHS8902
Continued Breastfeeding	77	1988	DHS8902

Other Health Indicators			
INDICATOR	PERCENT	YEAR	SOURCE
HIV-1 Seroprevalence			
Urban	18	1992	BUC9301
Rural	8	1992	BUC9301
Access to Improved Water			
Urban	100	1990	WHO9200
Rural	88	1990	WHO9200
Access to Sanitation			
Urban	100	1990	WHO9200
Rural	85	1990	WHO9200
Deliveries/Trained Attendants	77	1988	DHS8902

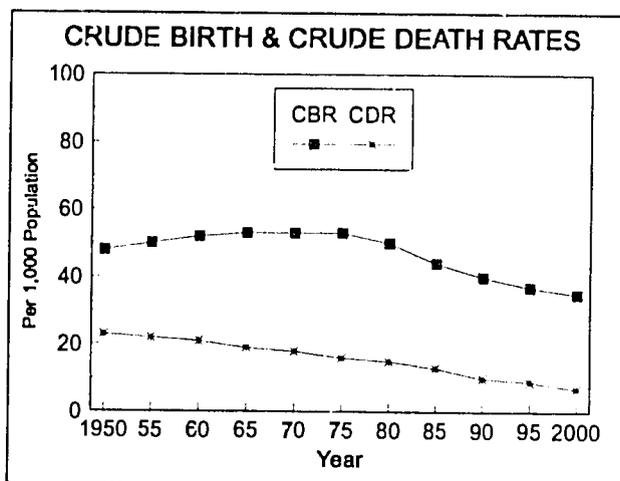
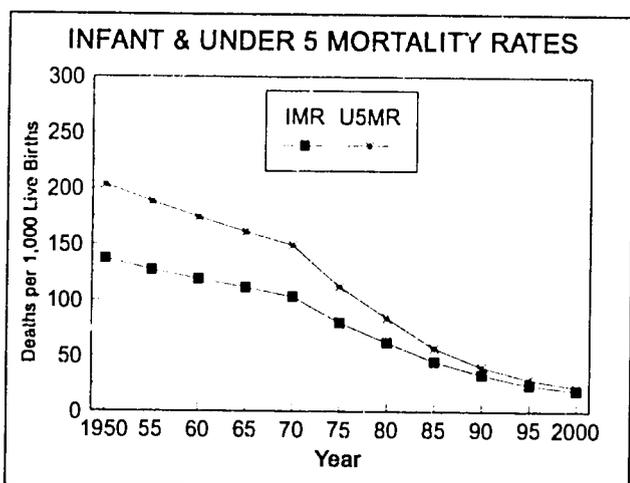
NA = Not available



Trends in Selected Demographic and Health Indicators

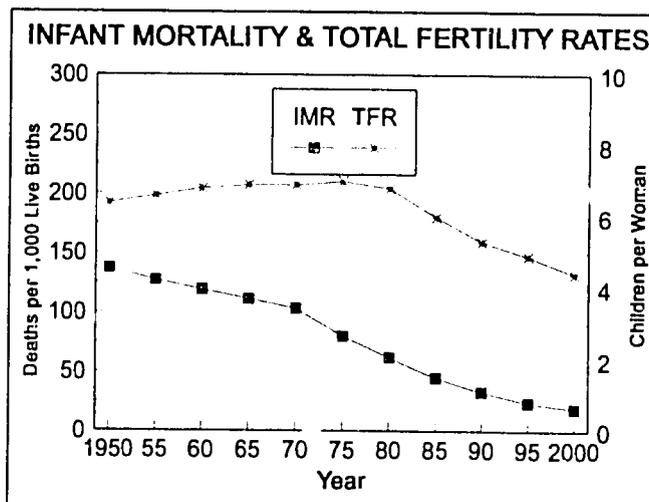
JULY 1994

INDICATOR	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	SOURCE
Infant Mortality	137	127	119	111	103	80	2	45	33	24	19	WB .9302
Under Five Mortality	203	188	174	161	149	112	84	57	40	29	22	WBK9302
Crude Birth Rate	48	50	52	53	53	53	50	44	40	37	35	UNP9200
Crude Death Rate	23	22	21	19	18	16	15	13	10	9	7	UNP9200
Avg. Annual Growth Rate	2	2	2	3	3	4	4	3	3	3	3	UNP9200
Total Fertility Rate	6.4	6.6	6.8	6.9	6.9	7.0	6.8	6.0	5.3	4.9	4.4	UNP9200



IMR and TFR

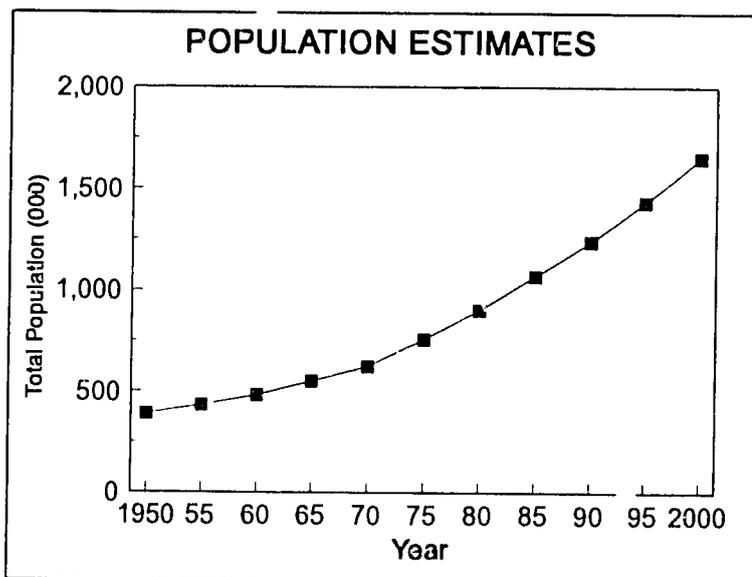
The relationship between IMR and TFR is currently a subject under review by the scientific community. While there is not conclusive evidence that the IMR and TFR are causally linked and necessarily decline together, there is empirical evidence for suspecting that such a reinforcing relationship exists as the pattern is observable in most countries.



Population Estimates/Pyramid

JULY 1994

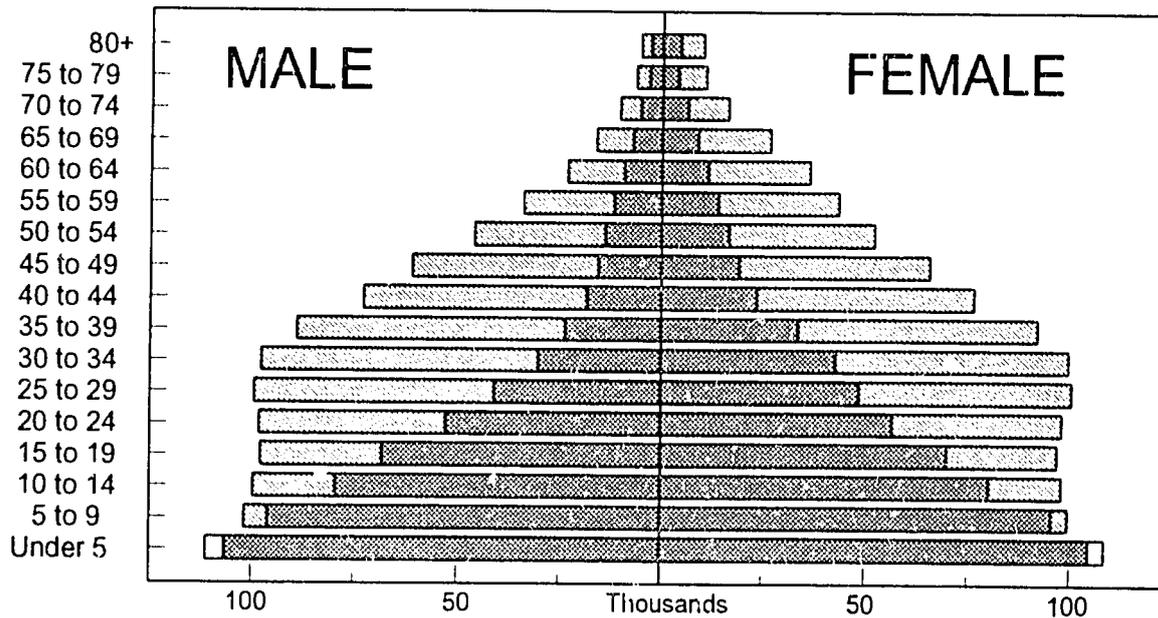
POPULATION ESTIMATES (000s)		
YEAR	VALUE	SOURCE
1950	389	UNP9200
1955	433	UNP9200
1960	481	U P9200
1965	549	UNP9200
1970	623	UNP9200
1975	755	UNP9200
1980	902	UNP9200
1985	1,068	UNP9200
1990	1,238	UNP9200
1995	1,433	UNP9200
2000	1,650	UNP9200



CURRENT & PROJECTED POPULATION

By Age & Gender: 1990 - 2020

Total Population 1990: 1,224,382 Total Population 2020: 2,186,815



1990
 2020>1990
 1990>2020

NOTE: For the younger age groups, the population in 2020 is projected to be less than that of 1990.

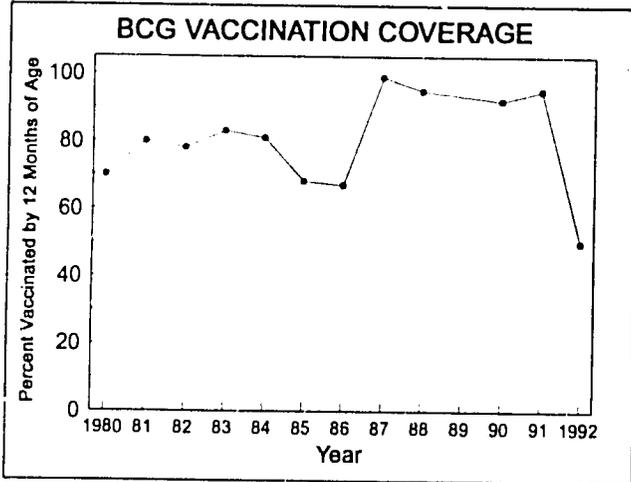
Source: BUC9401



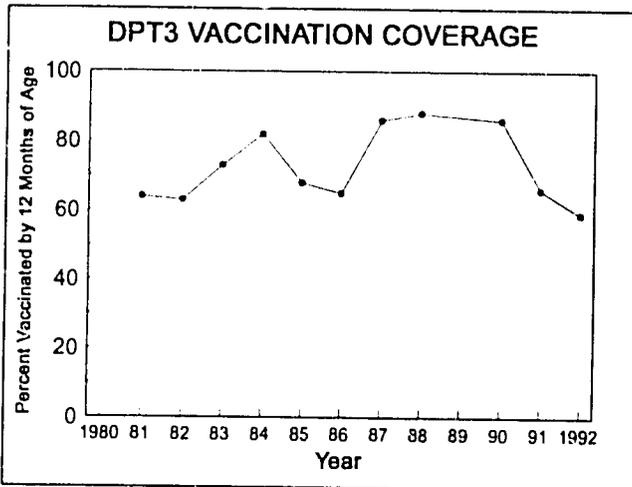
Trends in Selected Health and Child Survival Indicators

Vaccination Coverage Rates

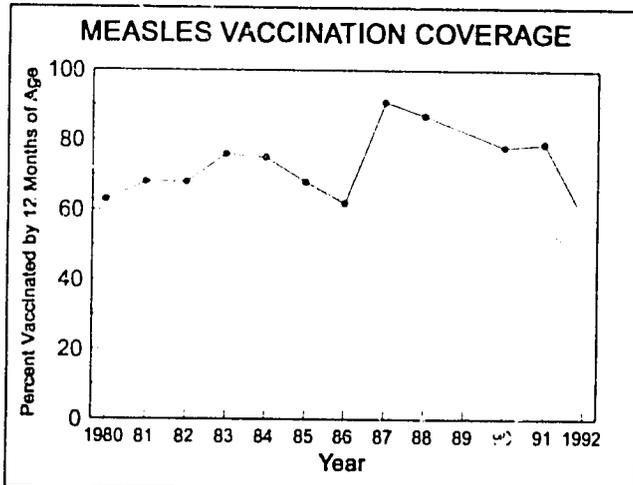
JULY 1994



BCG COVERAGE		
YEAR	PERCENT	SOURCE
1980	70	WHE8700
1981	80	WHE8700
1982	78	WHE8700
1983	83	WHE8700
1984	81	WHE8700
1985	68	WHE8800
1986	67	WHE8701
1987	99	WHE8801
1988	95	DHS8902
1989	NA	
1990	92	WHE9100
1991	95	WHE9200
1992	50	WHE9301

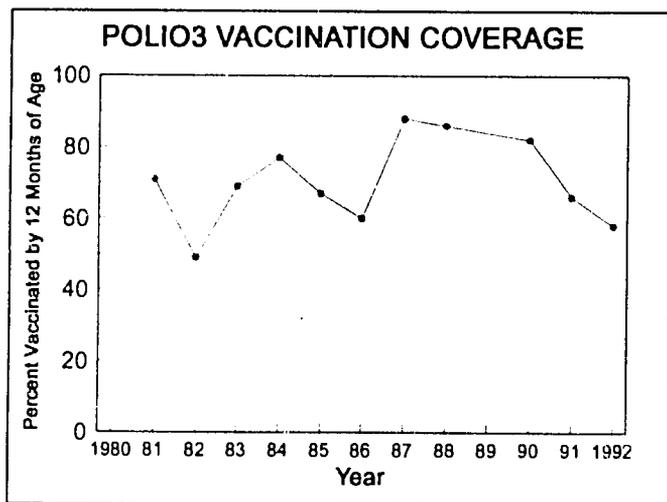


DPT3 COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	64	WHE8700
1982	63	WHE8700
1983	73	WHE8700
1984	82	WHE8700
1985	68	WHE8800
1986	65	WHE8800
1987	86	WHE8801
1988	88	DHS8902
1989	NA	
1990	86	WHE9100
1991	66	WHE9200
1992	59	WHE9301

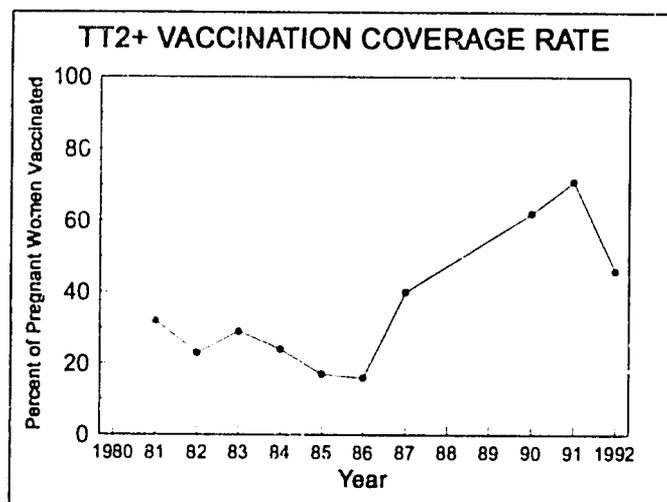


MEASLES COVERAGE		
YEAR	PERCENT	SOURCE
1980	63	WHE8700
1981	68	WHE8700
1982	68	WHE8700
1983	76	WHE8700
1984	75	WHE8700
1985	68	WHE8800
1986	62	WHE8701
1987	91	WHE8801
1988	87	DHS8902
1989	NA	
1990	78	WHE9100
1991	79	WHE9200
1992	58	WHE9301

Vaccination Coverage Rates, continued



POLIO3 COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	71	WHE8700
1982	49	WHE8700
1983	69	WHE8700
1984	77	WHE8700
1985	67	WHE8800
1986	60	WHE8701
1987	88	WHE8801
1988	86	DHS8902
1989	NA	
1990	82	WHE9100
1991	66	WHE9200
1992	58	WHE9301

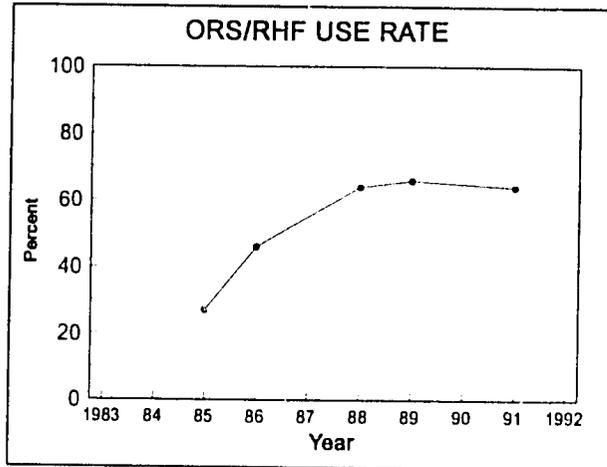
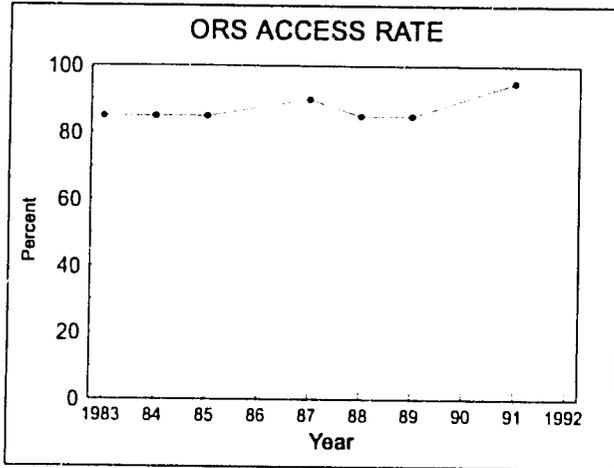


TT2+ COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	32	WHE8700
1982	23	WHE8700
1983	29	WHE8700
1984	24	WHE8700
1985	17	WHE8800
1986	16	WHE8701
1987	40	WHE8801
1988	NA	
1989	NA	
1990	62	WHE9100
1991	71	WHE9202
1992	46	WHE9301



ORS Access, ORS and/or RHF Use Rates

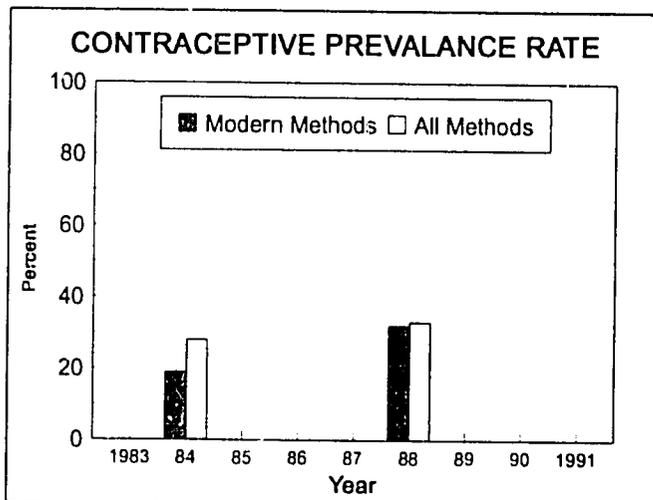
JULY 1994



INDICATOR	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ORS Access	85	85	85	NA	90	85	85	NA	95	NA	NA
Source	WHD8500	WHD8700	WHD8700		WHD8900	WHD9001	WHD9100		WHD9201		
ORS/RHF Use	NA	NA	27	46	NA	64	66	NA	64	NA	NA
Source			WHD8700	WHD8800		WHD9001	WHD9100		WHD9201		

Contraceptive Prevalence Rate

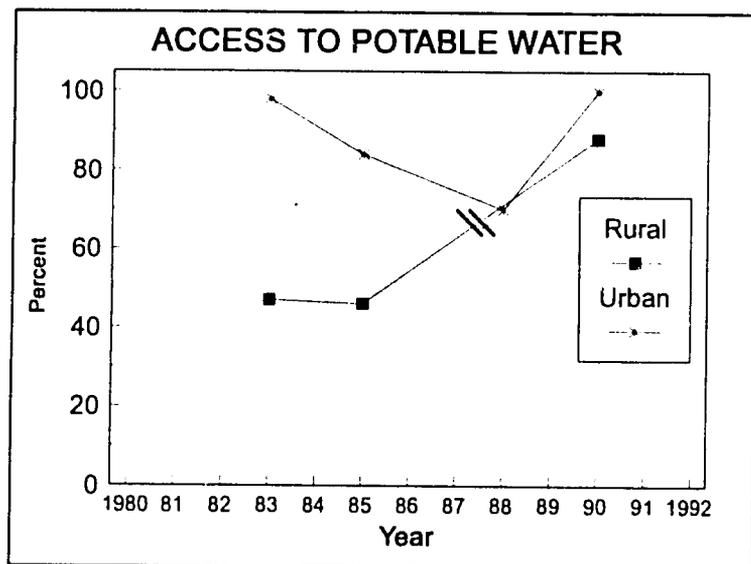
JULY 1994



YEAR	MODERN METHODS	SOURCE	ALL METHODS	SOURCE
1983	NA		NA	
1984	19	BUC9401	28	BUC9401
1985	NA		NA	
1986	NA		NA	
1987	NA		NA	
1988	32	DHS8902	33	DHS8902
1989	NA		NA	
1990	NA		NA	
1991	NA		NA	

Access to Potable Water

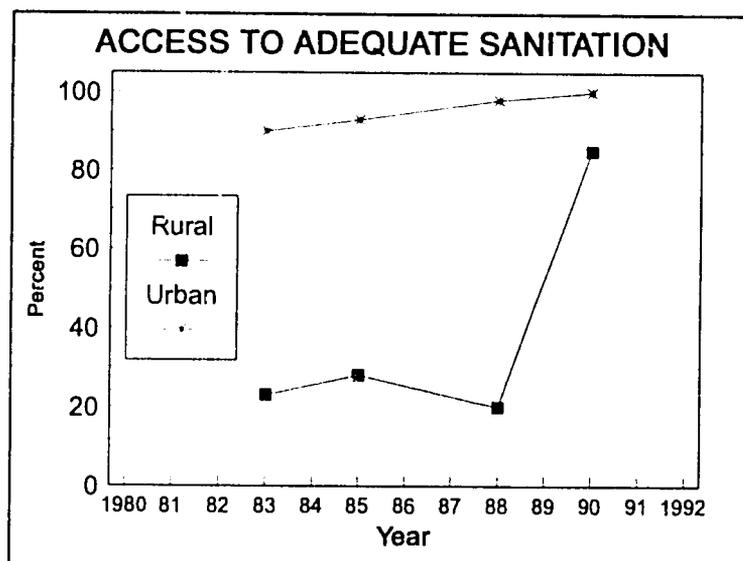
JULY 1994



YEAR	RURAL SOURCE	URBAN SOURCE
1980	NA	NA
1981	NA	NA
1982	NA	NA
1983	47 WHO9101	98 WHO9101
1984	NA	NA
1985	46 WHO9101	84 WHO9101
1986	NA	NA
1987	NA	NA
1988	NA	70 WHO8802
1989	NA	NA
1990	88 WHO9200	100 WHO9200
1991	NA	NA
1992	NA	NA
1993	NA	NA

Access to Adequate Sanitation

JULY 1994

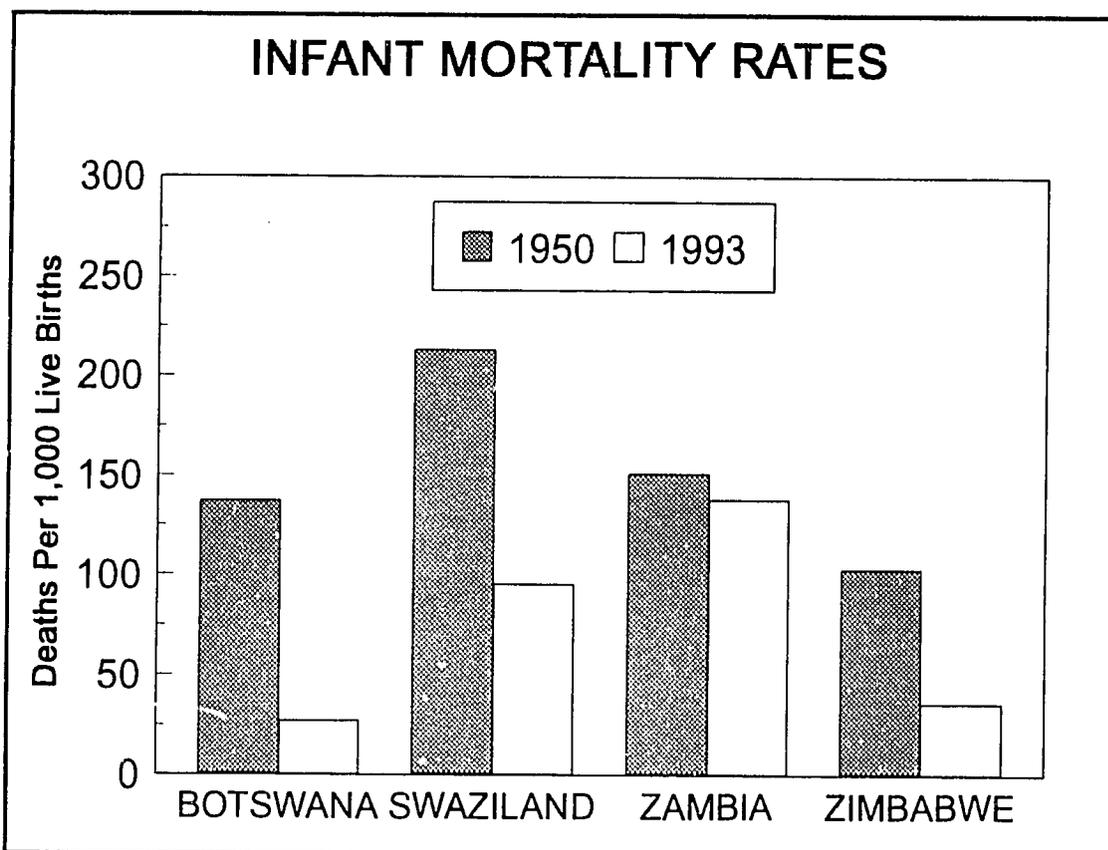


YEAR	RURAL SOURCE	URBAN SOURCE
1980	NA	NA
1981	NA	NA
1982	NA	NA
1983	23 WHO9101	90 WHO9101
1984	NA	NA
1985	28 WHO9101	93 WHO9101
1986	NA	NA
1987	NA	NA
1988	20 WHO9101	98 WHO9101
1989	NA	NA
1990	85 WHO9200	100 WHO9200
1991	NA	NA
1992	NA	NA
1993	NA	NA

COMPARATIVE INDICATORS

Comparative IMR Rates

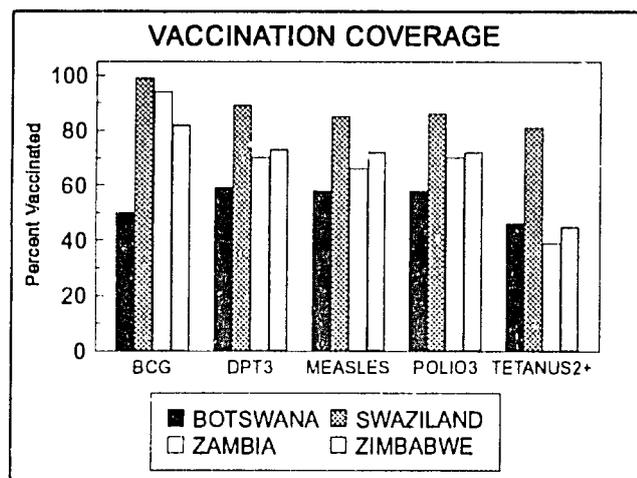
JULY 1994



COUNTRY	1950	SOURCE	1993	SOURCE
BOTSWANA	137	WBK9302	27	WBK9302
SWAZILAND	213	BUC9302	95	BUC9302
ZAMBIA	151	WBK9302	138	WBK9302
ZIMBABWE	103	WBK9302	36	WBK9302

Comparative Vaccination Coverage Rates

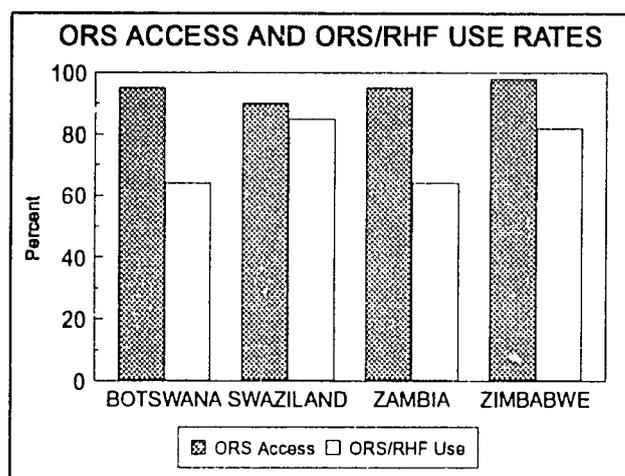
JULY 1994



COUNTRY	INDICATOR	YEAR	VALUE	SOURCE
BOTSWANA	BCG	1992	50	WHE9301
	DPT 3	1992	59	WHE9301
	Measles	1992	58	WHE9301
	Polio 3	1992	58	WHE9301
	Tetanus 2	1992	46	WHE9301
SWAZILAND	BCG	1992	99	WHE9301
	DPT 3	1992	89	WHE9301
	Measles	1992	85	WHE9301
	Polio 3	1992	86	WHE9301
	Tetanus 2	1992	81	WHE9401
ZAMBIA	BCG	1992	94	DHS9303
	DPT 3	1992	70	DHS9303
	Measles	1992	66	DHS9303
	Polio 3	1992	70	DHS9303
	Tetanus 2	1992	39	DHS9303
ZIMBABWE	BCG	1992	82	WHE9301
	DPT 3	1992	73	WHE9301
	Measles	1992	72	WHE9301
	Polio 3	1992	72	WHE9301
	Tetanus 2	1991	45	WHE9202

Comparative ORS Access, ORS and/or RHF Use Rates

JULY 1994



COUNTRY	INDICATOR	YEAR	VALUE	SOURCE
BOTSWANA	ORS Access Rate	1991	95	WHD9201
	ORT Use Rate	1991	64	WHD9201
SWAZILAND	ORS Access Rate	1989	90	WHD9100
	ORT Use Rate	1989	85	WHD9100
ZAMBIA	ORS Access Rate	1993	95	WHD9401
	ORT Use Rate	1992	64	DHS9303
ZIMBABWE	ORS Access Rate	1993	98	WHD9401
	ORT Use Rate	1993	82	WHD9401

II: DATA NOTES

JULY 1994

Notes On Mortality Estimation

Throughout this profile, references are made to infant and under 5 mortality rates for individual countries or groups of countries. In past years, the primary source of data on infant mortality was the World Population Prospects, a set of estimates updated every two years by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations. The primary source of data on under 5 mortality was a special report published in 1988 by the same group. Where another source, such as a recent Demographic and Health Survey or a national census, was available for a given country, the reported values from that source were cited in place of the United Nations estimates if the technical staff of USAID in the Country Mission and/or the appropriate regional bureaus confirmed the validity of the alternative source.

Known as indirect estimates, those of the United Nations are generated from accepted demographic models which combine the results of all available surveys and censuses in a given country to produce a single time series of estimates and projections. When new empirical data becomes available for a given country, the entire time series of estimates and projections is updated. Thus, using conventional demographic approaches, a survey done in 1990 may generate a new estimate of a mortality rate for 1970 or 1980.

During 1993, a new set of estimates for mortality was generated for 82 countries for publication in the World

Development Report 1993 and a forthcoming UNICEF publication entitled The Progress of Nations. Based on a curve-fitting model, the methodology applied to generate these new estimates purports to depict more accurately the trend derived from all available data sources for a country. Like the estimates generated using conventional demographic models, the entire time series might change upon the addition of a new empirical source. These estimates were made available to USAID through the courtesy of the World Development Report of the World Bank and UNICEF.

The selection of the mortality rates was done through a consultative process involving representatives of the Office of Health in USAID's Research and Development Bureau, USAID's Regional Bureaus and, in many cases, the USAID Country Missions. The source determined to best reflect the reality in a country for the current values of infant and under 5 mortality was identified and one of a number of a computation procedures, depending on the source selected for the current value, was applied to estimate the longitudinal rates. The consideration of the additional source of data developed for the World Development Report and UNICEF during the consultative process has prompted some changes in the reporting of mortality rates from those reported in recent years.

Definitions

Demographic Indicators

Total Population: The mid-year estimate of the total number of individuals in a country.

Average Annual Rate of Growth: An estimate of the rate at which a population is increasing (or decreasing) in a given year.

Infant Mortality Rate: The estimated number of deaths in infants (children under age one) in a given year per 1,000 live births in that same year. This rate may be calculated by direct methods (counting births and deaths) or by indirect methods (applying well-established demographic models).

Under 5 Mortality Rate: The estimated number of children born in a given year who will die before reaching age five per thousand live births in that same year. This rate may also be calculated by direct or indirect methods.

Maternal Mortality Ratio: The estimated number of maternal deaths per 100,000 live births where a maternal death is one which occurs when a woman is pregnant or within 42 days of termination of pregnancy from any cause related to or aggravated by the pregnancy or its management. Although sometimes referred to as a rate, this measure is actually a ratio because the unit of measurement of the numerator (maternal deaths) is different than that of the denominator (live births). The measure would be a rate if the units were the same. Extremely difficult to measure, maternal mortality can be derived from vital registration systems (usually underestimated), community studies and surveys (requires very large sample sizes) or hospital registration (usually overestimated).

Crude Birth Rate: An estimate of the number of live births per 1,000 population in a given year.

Crude Death Rate: An estimate of the number of deaths per 1,000 population in a given year.

II: Data Notes

Life Expectancy At Birth: An estimate of the average number of years a newborn can expect to live. Life expectancy is computed from age-specific death rates for a given year. It should be noted that low life expectancies in developing countries are, in large part, due to high infant mortality.

Number of Births: An estimate of the number of births occurring in a given year.

Annual Infant Deaths: An estimate of the number of deaths occurring to children under age one in a given year.

Total Fertility Rate: An estimate of the average number of children a woman would bear during her lifetime given current age-specific fertility rates.

Child Survival Indicators

Vaccination Coverage In Children: An estimate of the proportion of living children between the ages of 12 and 23 months who have been vaccinated before their first birthday -- three times in the cases of polio and DPT and once for both measles and BCG. Vaccination coverage rates are calculated in two ways. Administrative estimates are based on reports of the number of inoculations of an antigen given during a year to children who have not yet reached their first birthday divided by an estimate of the pool of children under one year of age eligible for vaccination. Survey estimates are based on samples of children between the ages of 12 and 23 months.

Vaccination Coverage In Mothers: An estimate of the proportion of women in a given time period who have received two doses of tetanus toxoid during their pregnancies. This indicator is being changed in many countries to account for the cumulative effect of tetanus toxoid boosters. A woman and her baby are protected against tetanus when a mother has

had only one or, perhaps, no boosters during a given pregnancy so long as the woman had received the appropriate number of boosters in the years preceding the pregnancy in question. (The appropriate number of boosters required during any given pregnancy varies with number received previously and the time elapsed.) The revised indicator is referred to as TT2+. Rates are computed using administrative methods or surveys.

DPT Drop-out Rate: An estimate of the proportion of living children between the ages of 12 and 23 months who received at least one DPT vaccination but who did not receive the entire series of three vaccinations before their first birthdays.

Oral Rehydration Salts (ORS) Access Rate: An estimate of the proportion of the population under age five with reasonable access to a trained provider of oral rehydration salts who receives adequate supplies. This is a particularly difficult indicator to measure and, therefore, it may fluctuate dramatically from year to year as improved methods of estimation are devised.

ORS and/or Recommended Home Fluid (RHF) Use Rate: An estimate of the proportion of all cases of diarrhea in children under age five treated with ORS and/or a recommended home fluid. ORT use may be determined using administrative means or surveys. In general, administrative estimates are based on estimates of the number of episodes of diarrhea in the target population for a given year and the quantity of ORS available. Thus, changes in the estimates of the frequency of diarrhea episodes can alter the ORT use rate as well as "real" changes in the pattern of use. Surveys are more precise in that they focus on the actual behavior of mothers in treating diarrhea in the two-week period prior to the survey.

Contraceptive Prevalence Rate: An estimate of the proportion of women, aged 15 through 44 (or, in some countries, 15 through 49), in union or married, currently using a modern method of contraception. Where sources fail to distinguish modern and traditional methods, the combined rate is shown.

Adequate Nutritional Status: An individual child of a certain age is said to be adequately nourished if his/her weight is greater than the weight corresponding to "two Z-scores" (two standard deviations) below the median weight achieved by children of that age. The median weight and the distribution of weights around that median in a healthy population are taken from a standard established by the National Center for Health Statistics, endorsed by the World Health Organization (WHO). The indicator for the population as a whole is the proportion of children 12 through 23 months of age who are adequately nourished.

Appropriate Infant Feeding: A composite estimate of the proportion of infants (children under age one) being breastfed and receiving other foods at an appropriate age according to the following criteria: breastfed through infancy with no bottle-feeding, exclusively breastfed through four months (120 days) of age, and receiving other foods if over six months of age (181 days). Water is not acceptable in the first four months (120 days). ORS is considered acceptable at any age. Surveys are the only source of data to form this indicator. Surveys yield an estimate of how many infants are being fed correctly at the moment of the survey. They do not give an indication of the proportion of individual children fed appropriately throughout their first year of life. A number of sub-indicators may be calculated from the data used to form the composite, of which two are presented in this report.



Exclusive Breastfeeding: An estimate of the proportion of infants less than four months (120 days) of age who receive no foods or liquids other than breast milk.

Complementary Feeding: An estimate of the proportion of infants six to nine months of age (181 days to 299 days) still breastfeeding but also receiving complementary weaning foods.

Continued Breastfeeding: An estimate of the proportion of children breastfed for at least one year. In this report, all values presented for this indicator are the proportion of children 12 to 15 months of age at the time of the survey still receiving breast milk.

Other Health Indicators

HIV-1 Seroprevalence, Urban: An estimate of the proportion of all persons (pregnant women, blood donors, and other persons with no known risk factors) living in urban areas infected with HIV-1, the most virulent and globally prevalent strain of the human immunodeficiency virus.

HIV-1 Seroprevalence, Rural: An estimate of the proportion of all persons living in rural areas infected with HIV-1.

Access to Improved Water, Urban: An estimate of the proportion of all persons living in urban areas (defined roughly as population centers of 2,000 or more persons) who live within 200 meters of a stand pipe or fountain source of water.

Access to Improved Water, Rural: An estimate of the proportion of all persons not living in urban areas with a source of water close enough to home that family members do not spend a disproportionate amount of time fetching water.

Access to Sanitation, Urban: An estimate of the proportion of all persons living in urban areas with

sanitation service provided through sewer systems or individual in-house or in-compound excreta disposal facilities (latrines).

Access to Sanitation, Rural: An estimate of the proportion of all persons not living in urban areas with sanitation coverage provided through individual in-house or in-compound excreta disposal facilities (latrines).

Deliveries By Trained Attendants: An estimate of the proportion of deliveries attended by at least one physician, nurse, midwife, or trained traditional birth attendant.

III: SOURCES

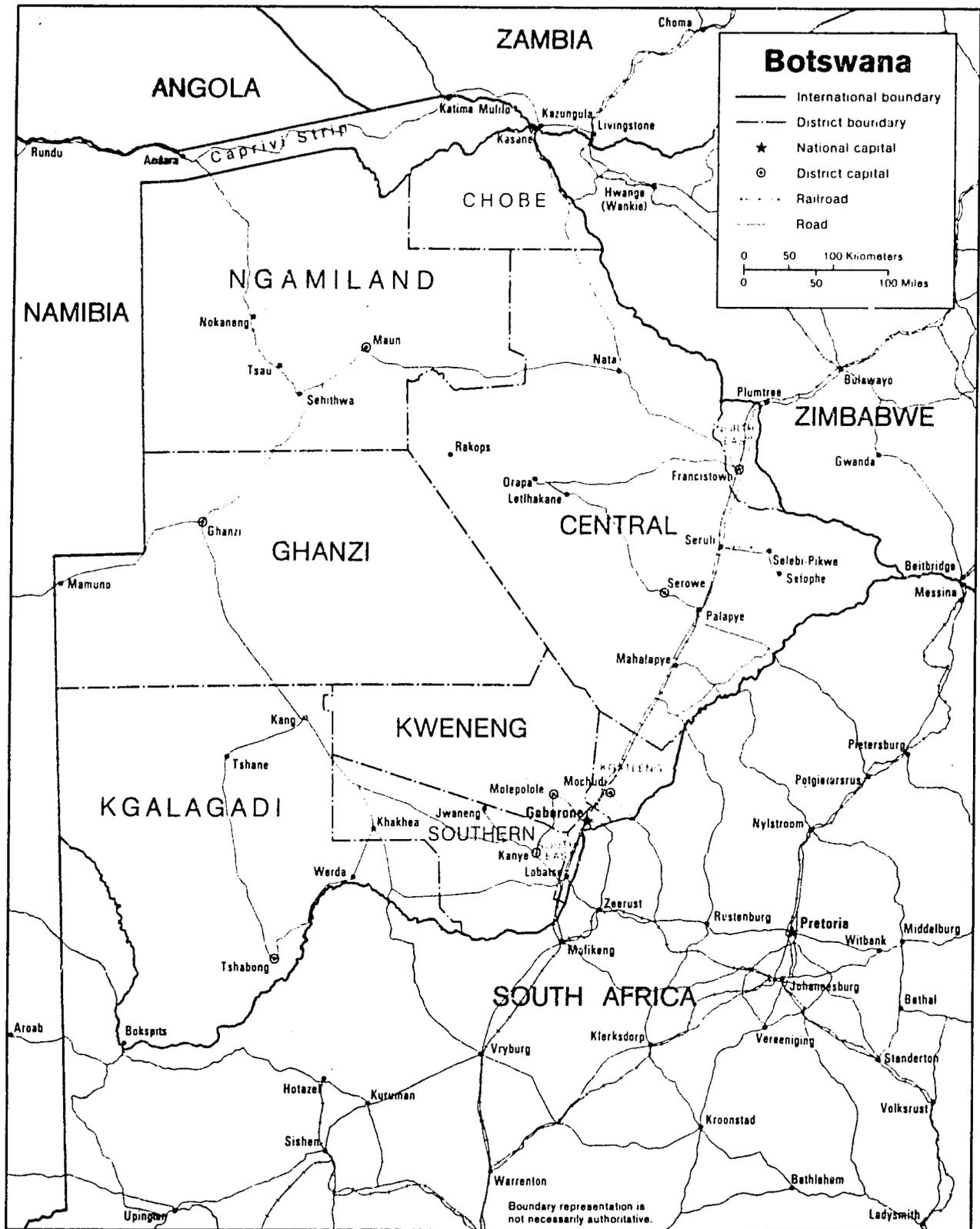
JULY 1994

- BUC9301 U.S. Bureau of the Census, Center for International Research. HIV/AIDS Surveillance Database. June, 1993.
- BUC9302 Time series estimates of Infant Mortality generated by applying the ratio of the BUCEN estimate for 1992 to the World Population Prospects estimate for 1992 to the annual values dating back to 1950 as estimated in the World Population Prospects. Under 5 Mortality estimates are calculated by applying the appropriate Coale-Demeny model to the Infant Mortality estimates.
- BUC9401 U.S. Bureau of the Census (BUCEN). International Data Base. Version dated March, 1994.
- BUC9401 U.S. Bureau of the Census (BUCEN). International Data Base. Version dated March, 1994.
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