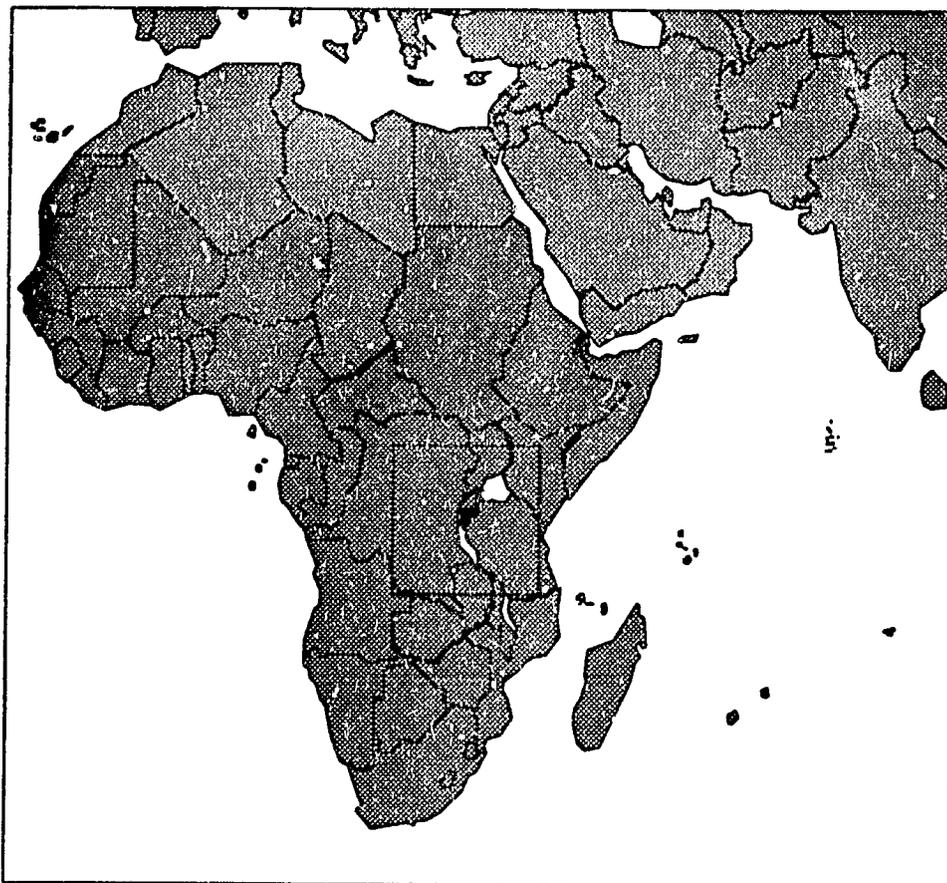


Country Health Profile

BURUNDI

Health Situation & Statistics Report 1994



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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, #236-5991.05 (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).

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BURUNDI

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.

TABLE OF CONTENTS

JULY 1994

I: Health & Demographic Overview	1
Current Demographic and Health Indicators	1
Trends in Selected Demographic and Health Indicators	2
Population Estimates/Pyramid	3
Trends in Selected Health and Child Survival Indicators	4
Vaccination Coverage Rates	4
ORS Access, ORS and/or RHF Use Rates	6
Contraceptive Prevalence Rate	6
Access to Potable Water	7
Access to Adequate Sanitation	7
Comparative Indicators	8
Comparative IMR Rates	8
Comparative Vaccination Coverage Rates	9
Comparative ORS Access, ORS and/or RHF Use Rates	9
II: Data Notes	10
III: Sources *	13

** 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	6,002,600	1993	UNP9200
Urban Population	348,200	1993	UNP9200
Women Ages 15-49	1,387,200	1993	UNP9200
Infant Mortality	108	1993	WBK9302
Under 5 Mortality	178	1993	WBK9302
Maternal Mortality	NA		
Life Expectancy At Birth	48	1993	UNP9200
Number of Births	273,923	1993	UNP9200
Annual Infant Deaths	29,447	1993	CALXX01
Total Fertility Rate	6.7	1993	UNP9200

Child Survival Indicators			
INDICATOR	PERCENT	YEAR	SOURCE
Vaccination Coverage			
BCG	90	1992	WHE9301
DPT 3	82	1992	WHE9301
Measles	70	1992	WHE9301
Polio 3	83	1992	WHE9301
Tetanus 2	56	1992	WHE9301
DPT Drop Out	NA		
Oral Rehydration Therapy			
ORS Access Rate	90	1989	WHD9100
ORS and/or RHF Use	49	1991	WHD9201
Contraceptive Prevalence			
Modern Methods (15-49)	1	1987	DHS8801
All Methods (15-49)	9	1987	DHS8801
Nutrition			
Adequate Nutritional Status	57	1987	DHS8801
Appropriate Infant Feeding	NA		
A) Exclusive Breastfeeding	89	1987	DHS8801
B) Complementary Feeding	56	1987	DHS8801
Continued Breastfeeding	96	1987	DHS8801

Other Health Indicators			
INDICATOR	PERCENT	YEAR	SOURCE
HIV-1 Seroprevalence			
Urban	19	1992	BUC9301
Rural	2	1992	BUC9301
Access to Improved Water			
Urban	99	1991	JMP9301
Rural	54	1991	JMP9301
Access to Sanitation			
Urban	71	1991	JMP9301
Rural	47	1991	JMP9301
Deliveries/Trained Attendants	19	1987	DHS8801

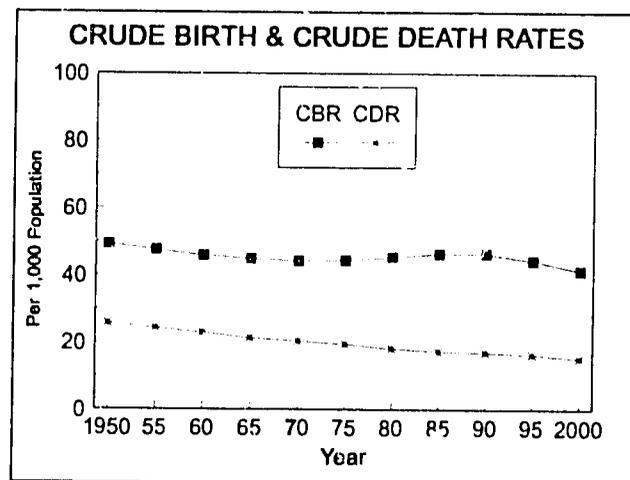
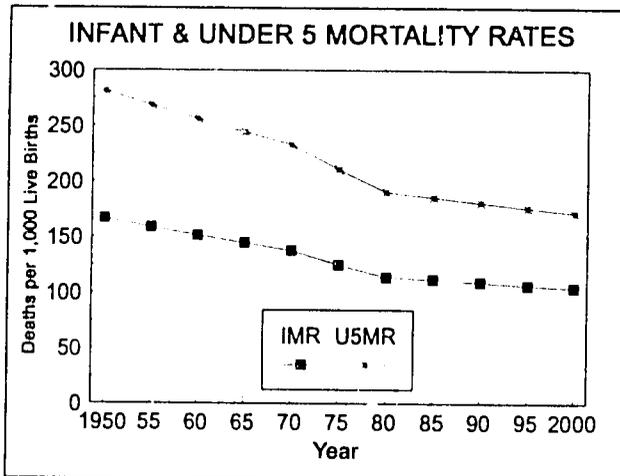
NA = Not available



Trends in Selected Demographic and Health Indicators

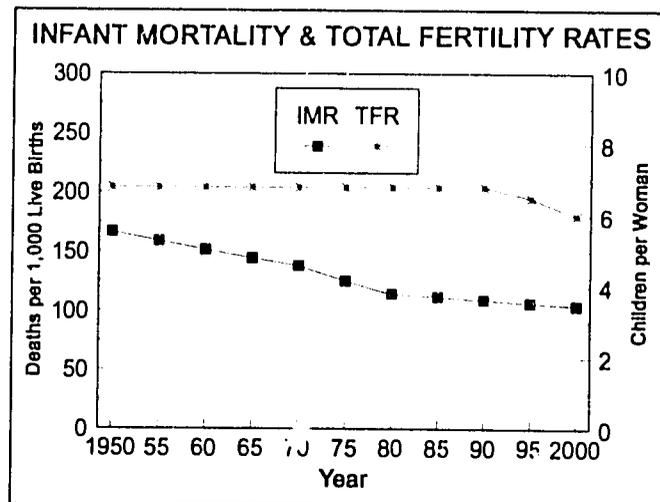
JULY 1994

INDICATOR	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	SOURCE
Infant Mortality	167	159	151	144	138	125	114	112	109	107	104	WBK9302
Under Five Mortality	281	268	256	244	233	211	191	186	181	176	172	WBK9302
Crude Birth Rate	49	48	46	45	44	44	45	46	46	44	41	UNP9200
Crude Death Rate	26	24	23	21	20	20	18	17	17	16	15	UNP9200
Avg. Annual Growth Rate	2	2	2	2	1	2	3	3	3	3	3	UNP9200
Total Fertility Rate	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.5	6	UNP9200



IMR and TFR

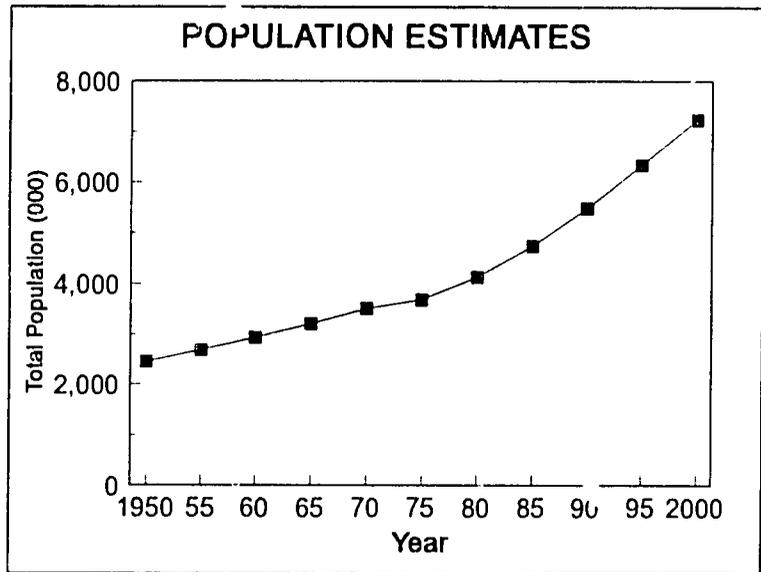
The relationship between IMR and TFR is currently a subject under review by the scientific community. While there is not conclusive evidence that the IMR and TFR are causally linked and necessarily decline together, there is empirical evidence for suspecting that such a reinforcing relationship exists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



Population Estimates/Pyramid

JULY 1994

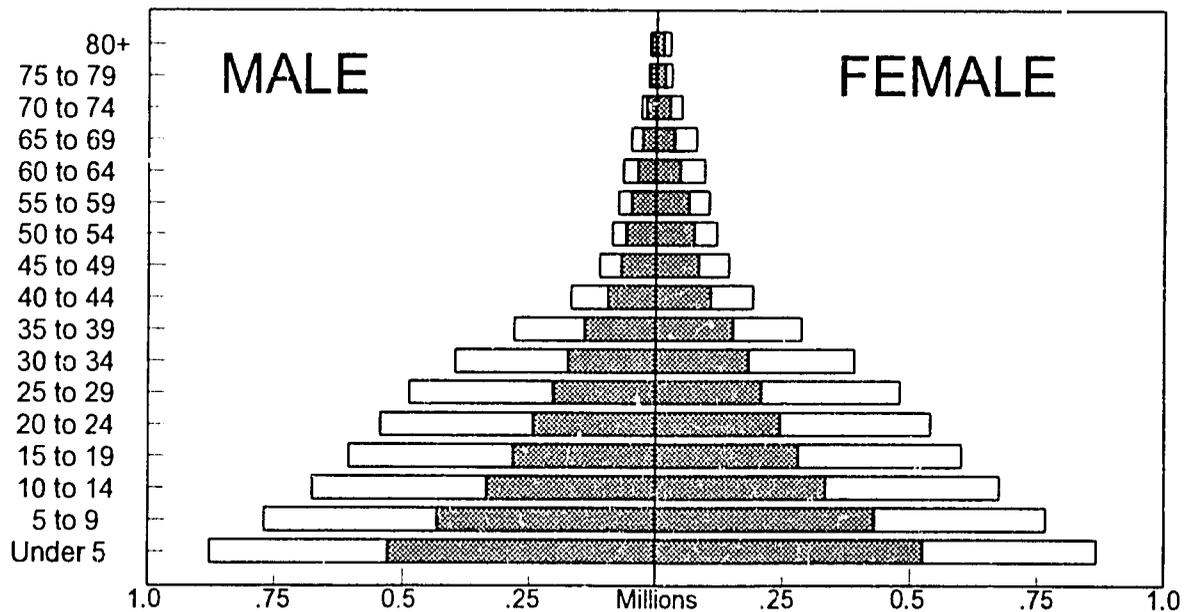
POPULATION ESTIMATES (000s)		
YEAR	VALUE	SOURCE
1950	2,456	UNP9200
1955	2,687	UNP9200
1960	2,941	UNP9200
1965	3,213	UNP9200
1970	3,514	UNP9200
1975	3,680	UNP9200
1980	4,130	UNP9200
1985	4,750	UNP9200
1990	5,492	UNP9200
1995	6,343	UNP9200
2000	7,237	UNP9200



CURRENT & PROJECTED POPULATION

By Age & Gender: 1990 - 2020

Total Population 1990: 5,557,758 Total Population 2020: 10,733,515



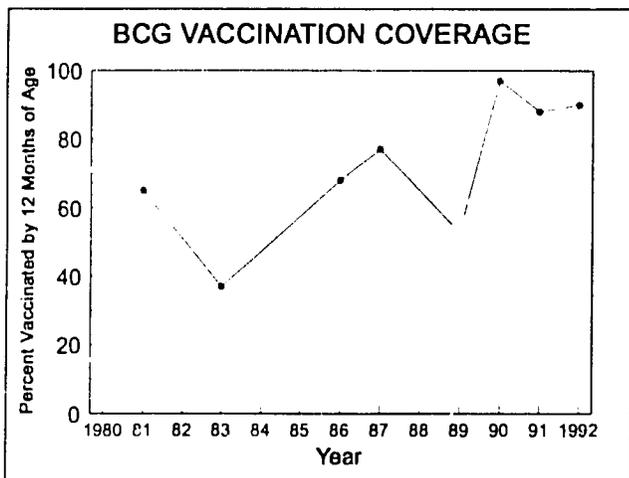
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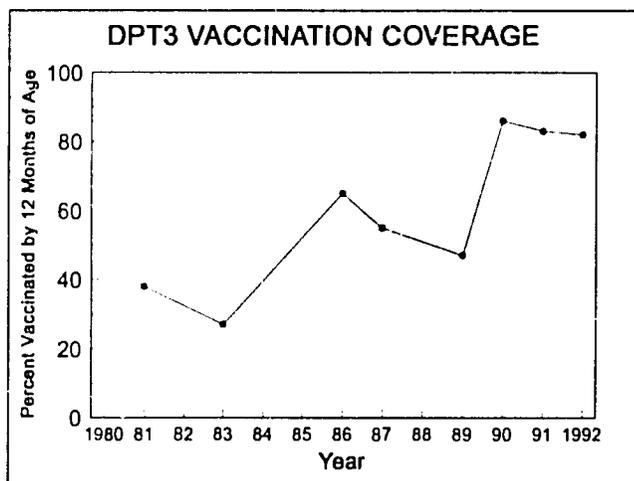
Trends in Selected Health and Child Survival Indicators

Vaccination Coverage Rates

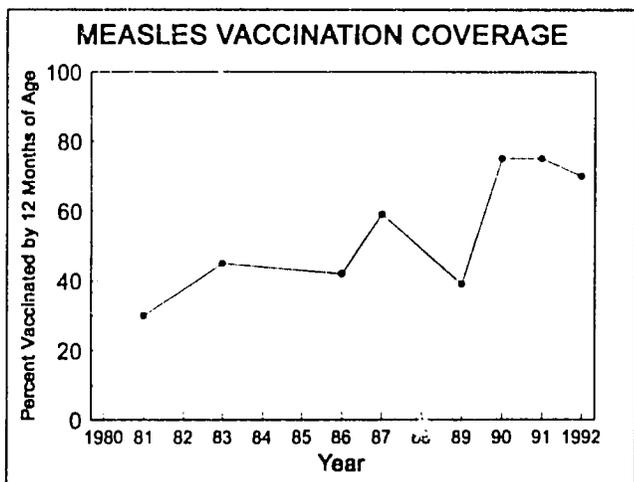
JULY 1994



BCG COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	65	WHE8701
1982	NA	
1983	37	WHE8700
1984	NA	
1985	NA	
1986	68	WHE8800
1987	77	DHS8801
1988	NA	
1989	53	WHE9000
1990	97	WHE9100
1991	88	WHE9202
1992	90	WHE9301

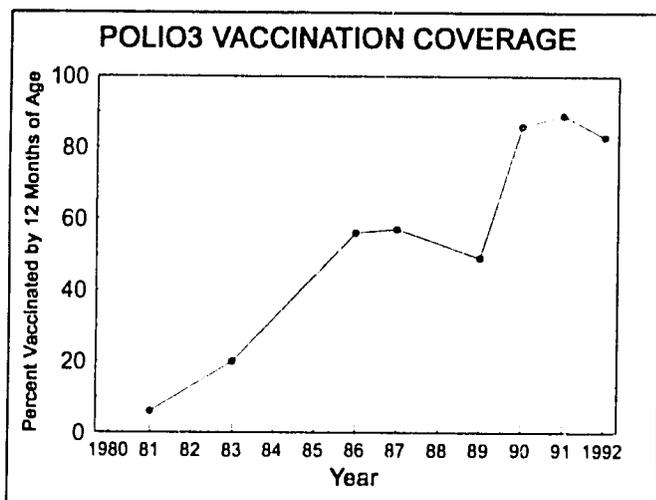


DPT3 COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	38	WHE8700
1982	NA	
1983	27	WHE8700
1984	NA	
1985	NA	
1986	65	WHE8800
1987	55	DHS8801
1988	NA	
1989	47	WHE9000
1990	86	WHE9100
1991	83	WHE9202
1992	82	WHE9301

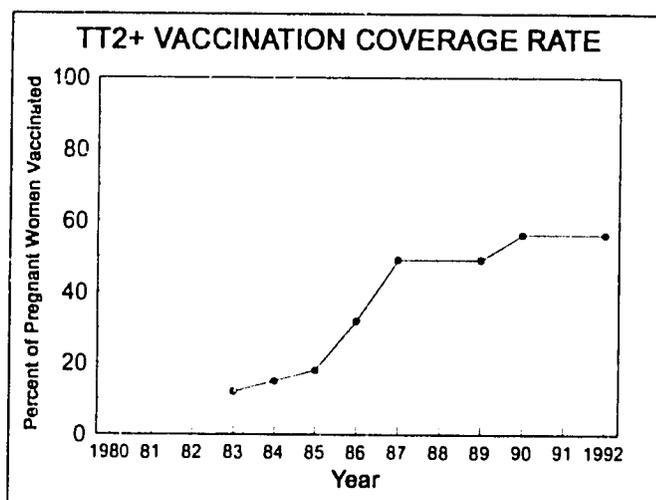


MEASLES COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	30	WHE8700
1982	NA	
1983	45	WHE8700
1984	NA	
1985	NA	
1986	42	WHE8800
1987	59	DHS8801
1988	NA	
1989	39	WHE9000
1990	75	WHE9100
1991	75	WHE9202
1992	70	WHE9301

Vaccination Coverage Rates, continued



POLIO3 COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	6	WHE8700
1982	NA	
1983	20	WHE8700
1984	NA	
1985	NA	
1986	56	WHE8800
1987	57	DHS8801
1988	NA	
1989	49	WHE9000
1990	86	WHE9100
1991	89	WHE9202
1992	83	WHE9301

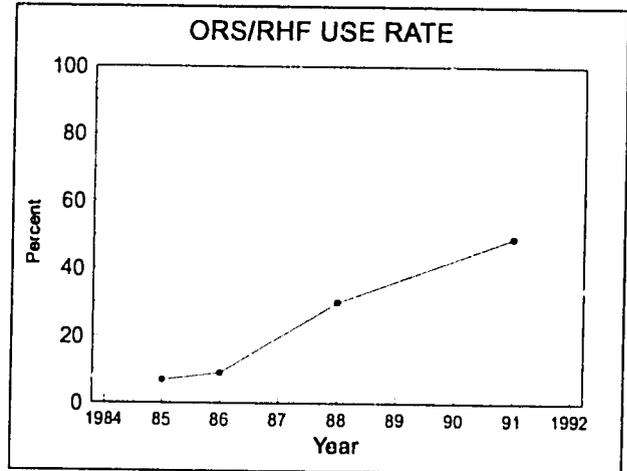
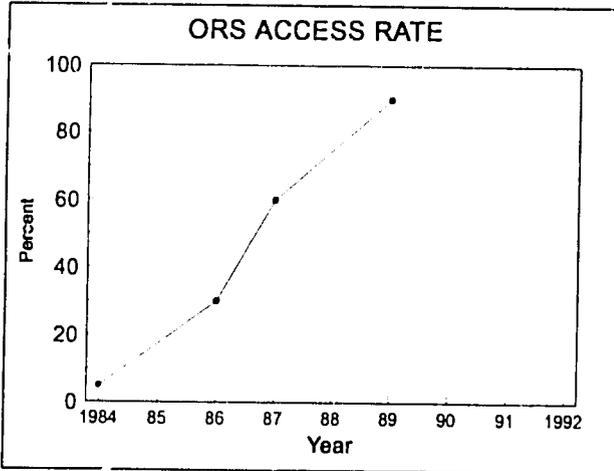


TT2+ COVERAGE		
YEAR	PERCENT	SOURCE
1980	NA	
1981	NA	
1982	NA	
1983	12	WHE8700
1984	15	WHE8900
1985	18	WHE8900
1986	32	WHE8800
1987	49	WHE8900
1988	NA	
1989	49	WHE9000
1990	56	WHE9100
1991	NA	
1992	56	WHE9301



ORS Access, ORS and/or RHF Use Rates

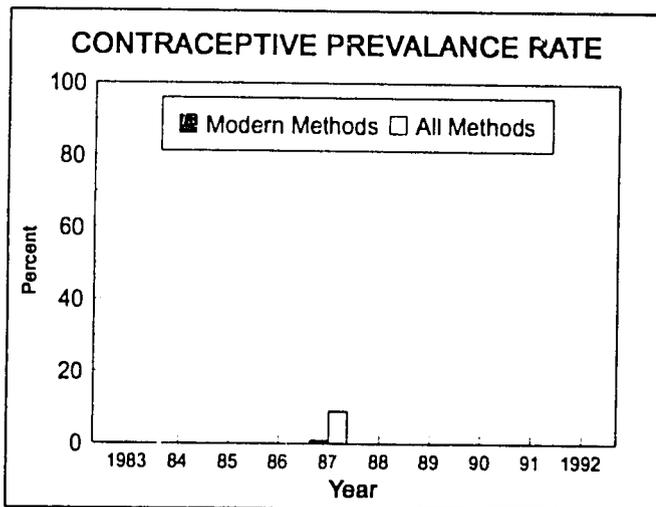
JULY 1994



INDICATOR	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
ORS Access	5	NA	30	60	NA	90	NA	NA	NA	NA
Source	WHD8700		WHD8800	WHD9001		WHD9100				
ORS/RHF Use	NA	7	9	NA	30	NA	NA	49	NA	NA
Source		WHD8700	WHD8800		WHD9000			WHD9201		

Contraceptive Prevalence Rate

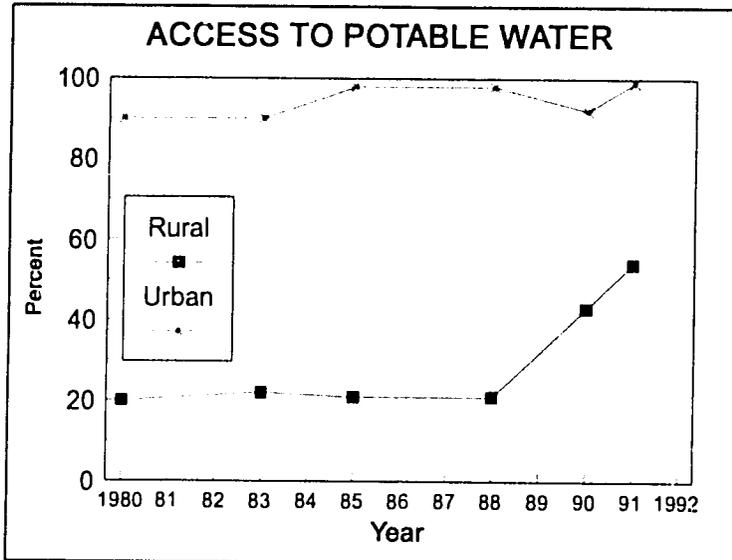
JULY 1994



YEAR	MODERN METHODS	SOURCE	ALL METHODS	SOURCE
1984	NA		NA	
1985	NA		NA	
1986	NA		NA	
1987	1	DHS8701	9	DHS8801
1988	NA		NA	
1989	NA		NA	
1990	NA		NA	
1991	NA		NA	
1992	NA		NA	

Access to Potable Water

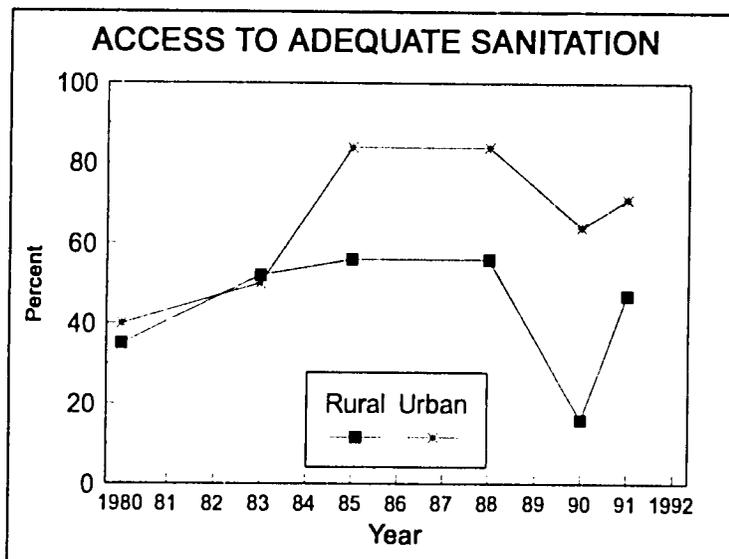
JULY 1994



YEAR	RURAL SOURCE	URBAN SOURCE
1980	20 AID9012	90 AID9012
1981	NA	NA
1982	NA	NA
1983	22 WHO9101	90 WHO9101
1984	NA	NA
1985	21 WHO9101	98 WHO9101
1986	NA	NA
1987	NA	NA
1988	21 AID9012	98 AID9012
1989	NA	NA
1990	43 WHO9200	92 WHO9200
1991	54 JMP9301	99 JMP9301
1992	NA	NA
1993	NA	NA

Access to Adequate Sanitation

JULY 1994

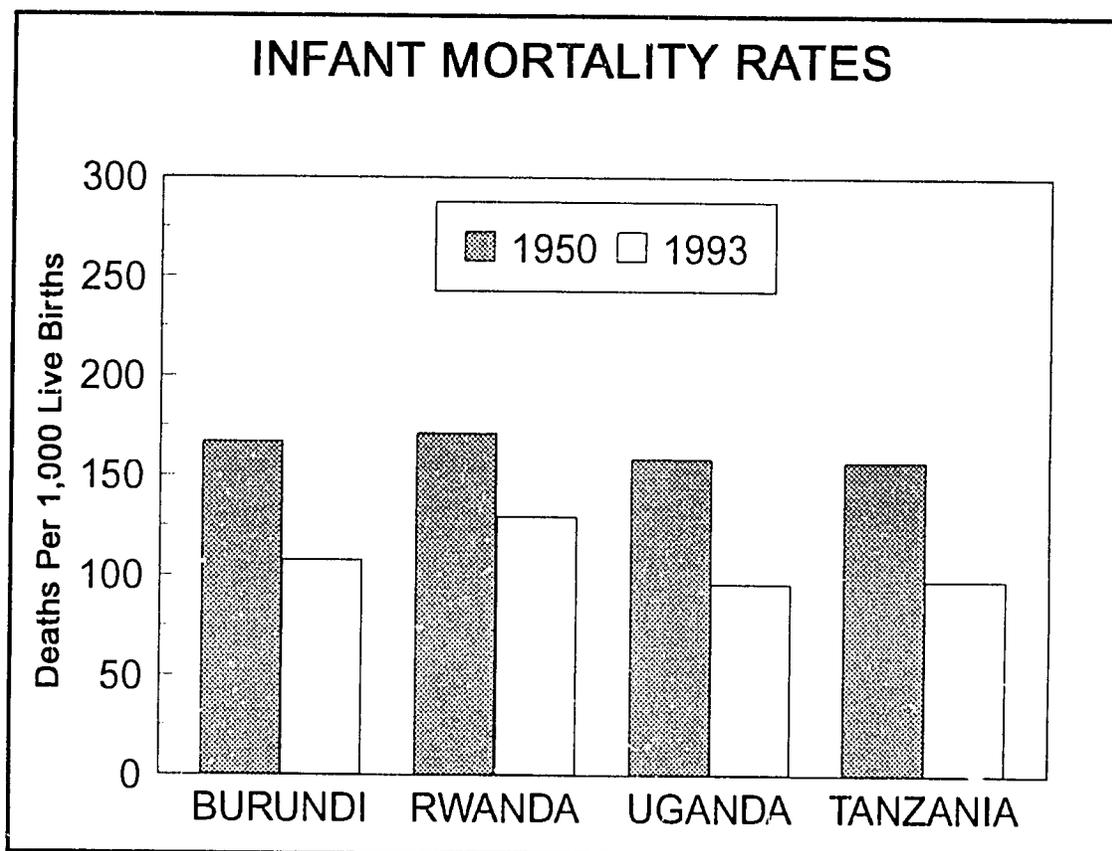


YEAR	RURAL SOURCE	URBAN SOURCE
1980	35 AID9012	40 AID9012
1981	NA	NA
1982	NA	NA
1983	52 WHO9101	50 WHO9101
1984	NA	NA
1985	56 WHO9101	84 WHO9101
1986	NA	NA
1987	NA	NA
1988	56 AID9012	84 AID9012
1989	NA	NA
1990	16 WHO9200	64 WHO9200
1991	47 JMP9301	71 JMP9301
1992	NA	NA
1993	NA	NA

COMPARATIVE INDICATORS

Comparative IMR Rates

JULY 1994

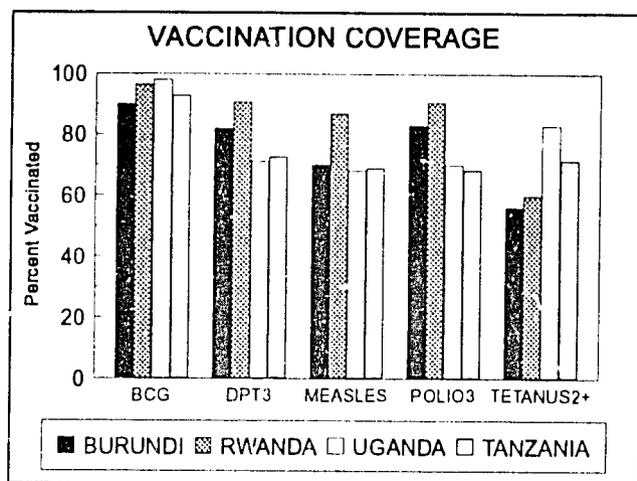


COUNTRY	1950	SOURCE	1993	SOURCE
BURUNDI	167	WBK9302	108	WBK9302
RWANDA	171	WBK9302	130	WBK9302
UGANDA	158	CALXX03	96	CALXX03
TANZANIA	157	WBK9302	98	WBK9302

In the information above, the Infant Mortality Rates for Rwanda do not reflect the most recent data captured in the DHS survey of 1992.

Comparative Vaccination Coverage Rates

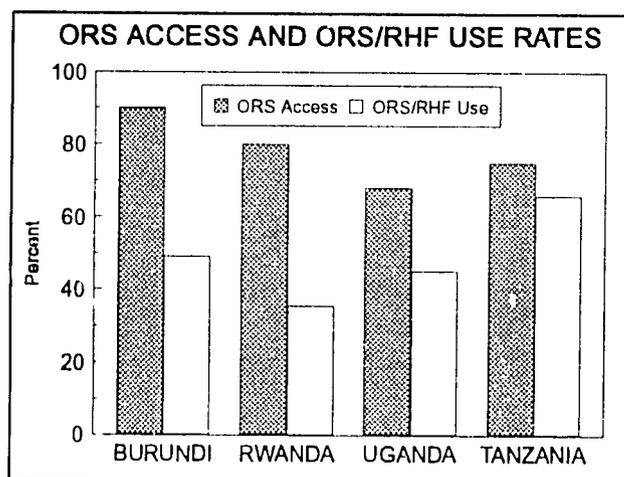
JULY 1994



COUNTRY	INDICATOR	YEAR	VALUE	SOURCE
BURUNDI	BCG	1992	90	WHE9301
	DPT 3	1992	82	WHE9301
	Measles	1992	70	WHE9301
	Polio 3	1992	83	WHE9301
	Tetanus 2	1992	56	WHE9301
RWANDA	BCG	1992	97	DHS9403
	DPT 3	1992	91	DHS9403
	Measles	1992	87	DHS9403
	Polio 3	1992	91	DHS9403
	Tetanus 2	1992	60	DHS9403
UGANDA	BCG	1992	98	WHE9301
	DPT 3	1992	71	WHE9301
	Measles	1992	68	WHE9301
	Polio 3	1992	70	WHE9301
	Tetanus 2	1992	83	WHE9301
TANZANIA	BCG	1991	93	DHS9302
	DPT 3	1991	73	DHS9302
	Measles	1991	69	DHS9302
	Polio 3	1991	68	DHS9302
	Tetanus 2	1991	72	DHS9302

Comparative ORS Access, ORS and/or RHF Use Rates

JULY 1994



COUNTRY	INDICATOR	YEAR	VALUE	SOURCE
BURUNDI	ORS Access Rate	1989	90	WHD9100
	ORT Use Rate	1991	49	WHD9201
RWANDA	ORS Access Rate	1992	80	WHD9300
	ORT Use Rate	1992	36	DHS9212
UGANDA	ORS Access Rate	1993	68	WHD9401
	ORT Use Rate	1993	45	WHD9401
TANZANIA	ORS Access Rate	1991	75	WHD9201
	ORT Use Rate	1991	66	DHS9302



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.

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

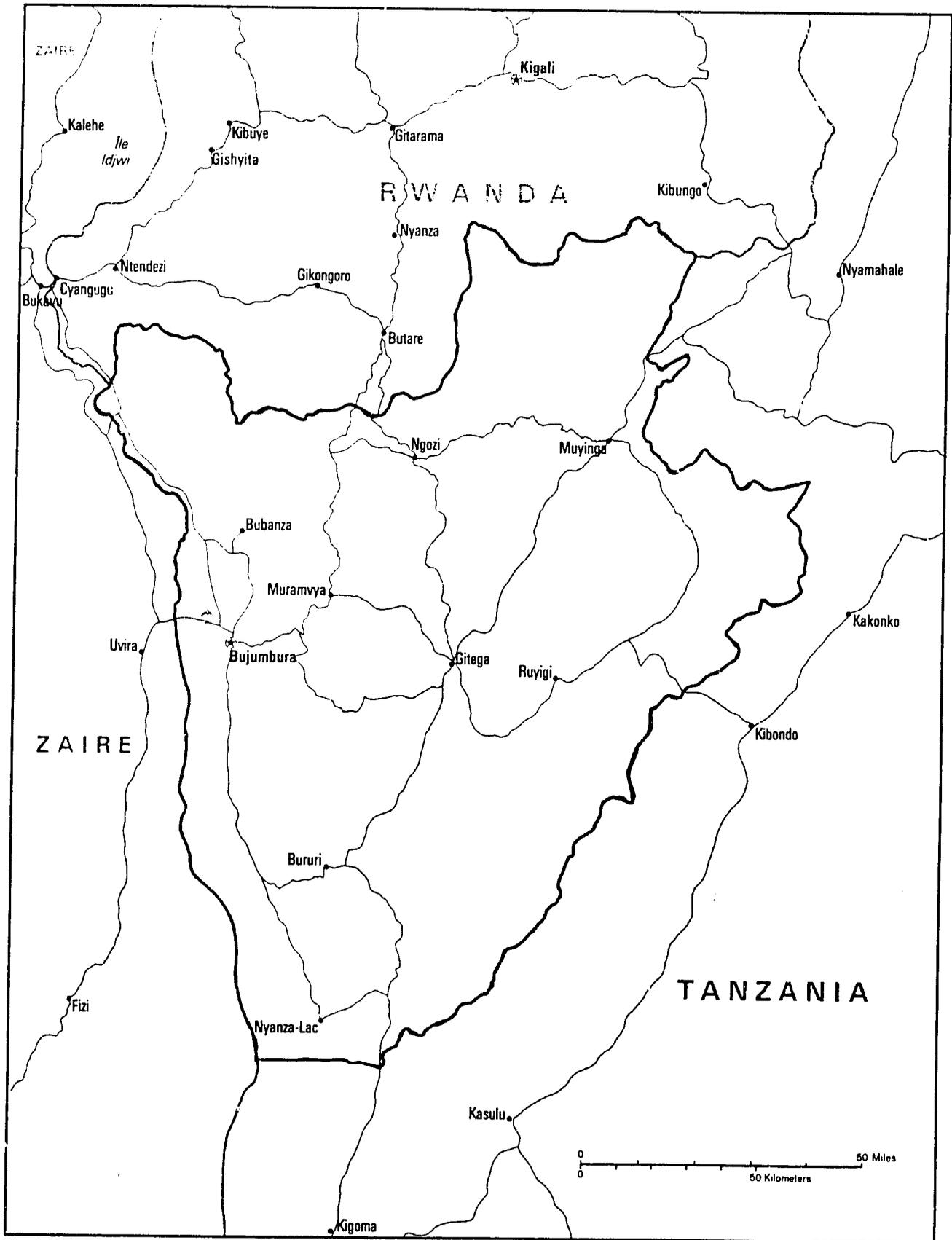
- AID9012 Water and Sanitation for Health Project, U.S. Agency for International Development. Water and Sanitation Sector Profiles of Twenty African Countries, June 1989.
- BUC9301 U.S. Bureau of the Census, Center for International Research. HIV/AIDS Surveillance Database. June, 1993.
- BUC9401 U.S. Bureau of the Census (BUCEN). International Data Base. Version dated March, 1994.
- CALXX01 Calculated from the values for total population, crude birth rate and infant mortality from designated sources for those variables.
- CALXX03 Time series estimates of Infant Mortality generated by applying the ratio of the DHS estimate for the most current 5 year period (or IMR from other current source) to the projected value from the World Population Prospects for the same year and applying that ratio to the projected time series in the WPP. Under 5 Mortality estimates are calculated by applying the appropriate Coale-Demeny model to the Infant Mortality time series.
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- DHS9302 Bureau of Statistics, Planning Commission and Macro International Inc. Tanzania Demographic and Health Survey 1991/92. Columbia, Maryland: Macro International Inc., June 1993.
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