

The Center for International Health Information, a division of ISTI, operates the USAID Health Information System under the Child Survival Action Program – Support project, #936-5951.13, contract number DPE 5951-Z-00-8004-00 with the Office of Health, Bureau of Science and Technology, U.S. Agency for International Development.

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COUNTRIES INCLUDED IN THIS REPORT

| | |
|------------------------------------|-----|
| Benin | 5 |
| Botswana | 8 |
| Burkina Faso | 11 |
| Burundi | 14 |
| Cameroon | 17 |
| Central African Republic | 20 |
| Chad | 23 |
| Cote D'Ivoire | 26 |
| Djibouti | 29 |
| Gambia | 32 |
| Ghana | 35 |
| Guinea | 38 |
| Kenya | 41 |
| Lesotho | 44 |
| Liberia | 47 |
| Malawi | 50 |
| Mali | 53 |
| Mauritania | 56 |
| Mozambique | 59 |
| Niger | 62 |
| Nigeria | 65 |
| Rwanda | 68 |
| Senegal | 71 |
| Sierra Leone | 74 |
| Somalia | 77 |
| Sudan | 80 |
| Swaziland | 83 |
| Tanzania | 86 |
| Togo | 89 |
| Uganda | 92 |
| Zaire | 95 |
| Zambia | 98 |
| Zimbabwe | 101 |

NOTES

The tables in this report display values of the child survival indicators for USAID supported countries in the African Region. These values are stored in the USAID Health Information System and were the most current available as of March, 1990. The accompanying graphs portray trends in those indicators where longitudinal data on annual basis is generally available.

The sources from which the data come are presented on the tables and graphs. Among those sources, reference is made to the FY 1989 USAID Mission Response Form (M.R.F.). That form was returned by USAID field missions along with the 1989 Health and Child Survival Project Questionnaires. One element of the form was a request for comments and updates on the data in the USAID Health Information System as of August, 1989. The updates received from the USAID missions proved to be extremely valuable in providing more current data than that available from other sources.

On the tables, the notation N/A is used to signal the non-availability of a value for a particular indicator.

On the graphs presenting trends in vaccination coverage, a range of estimates from Demographic and Health surveys is included where available. The reader should be aware that this range is based on coverage in children 12 to 23 months of age at the time of the survey irrespective of the age at which the vaccinations were administered. The title on the Y-axis of those graphs, "Pct. vaccinated by 12 months of age", applies to the longitudinal trend line but not to the points denoting the range suggested by the DHS survey.

INDICATOR DEFINITIONS

DEMOGRAPHIC INDICATORS

- 1) TOTAL POPULATION: Mid-year estimate of the total number of individuals in a country.
- 2) INFANT MORTALITY RATE (IMR): The estimated number of deaths in infants (children under age one) in a given year per 1,000 live births in that same year. An IMR may be calculated by direct methods (counting births and deaths) or by indirect methods (applying well-established demographic models).
- 3) 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.

- 4) CHILDREN UNDER AGE 1: Mid-year estimate of the total number of children under age one.
- 5) ANNUAL INFANT DEATHS: An estimate of the number of deaths occurring to children under age one in a given year.
- 6) TOTAL FERTILITY RATE: An estimate of the average number of children a woman would bear during her lifetime given current age-specific fertility rates.

VACCINATION COVERAGE RATES

- 7) 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 vaccines administered divided by an estimate of the pool of children eligible for vaccination. Survey estimates are based on sample surveys of children in the target age group and may or may not include children without vaccination cards whose mothers recall that their children had been vaccinated.
- 8) 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. Currently under worldwide review, this indicator is being changed 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.

ORAL REHYDRATION THERAPY

- 9) 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 (ORS) 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.

- 10) **ORT 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

- 11) **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.

NUTRITION

- 12) **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. The indicator for the population as a whole is the proportion of children 12 through 23 months of age who are adequately nourished.
- 13) **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 children in the target group (children under age one) 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.

EXCLUSIVELY BREASTFED: an estimate of the proportion of infants through four months (120 days) of age who receive no foods or liquids other than breast milk.

INTRODUCTION OF SOLIDS: an estimate of the proportion of infants over six months (181 days) of age still breastfeeding but also receiving complementary weaning foods.

- 14) **MEDIAN DURATION OF BREASTFEEDING:** an estimate of the median duration of breastfeeding computed from cross-sectional survey data using the Current Status Method. According to this method, the value reported is the month at which half of the children surveyed are no longer breastfed.

BENIN

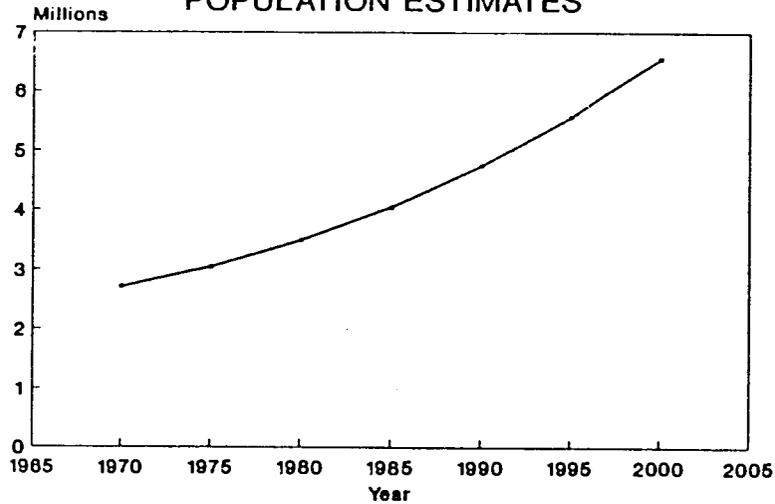
THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 4,592,000 | 1989 | A |
| Infant Mortality Rate | 107/1000 | 1989 | A |
| Life Expectancy At Birth | 47 Yrs | 1989 | A |
| Children Under Age 1 | 69,000 | 1989 | A |
| Annual Infant Deaths | 25,000 | 1989 | A |
| Total Fertility Rate | 7.0 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 53% | 1987 | B |
| DPT III | 29% | 1987 | B |
| Measles | 30% | 1987 | B |
| Polio III | 29% | 1987 | B |
| Tetanus II+ | 42% | 1987 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 60.0% | 1987 | C |
| ORT Use Rate | 25.5% | 1987 | C |
| Contraceptive Prevalence (Modern) | 1% | 1981/82 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D 1981/82 World Fertility Survey as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

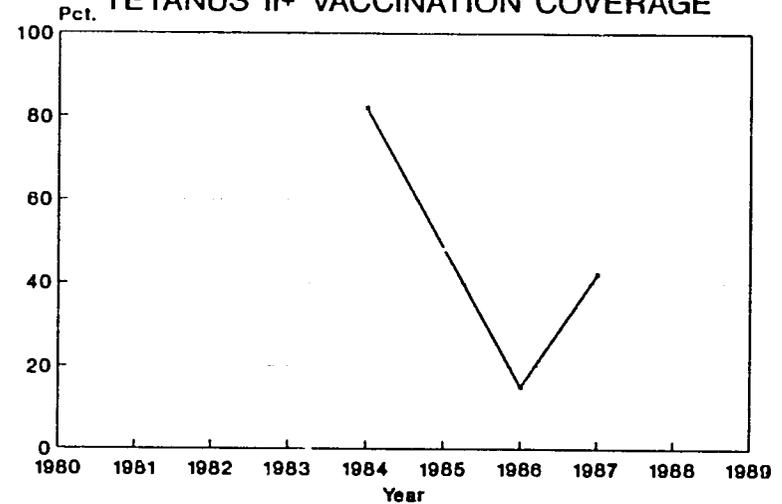
BENIN

POPULATION ESTIMATES



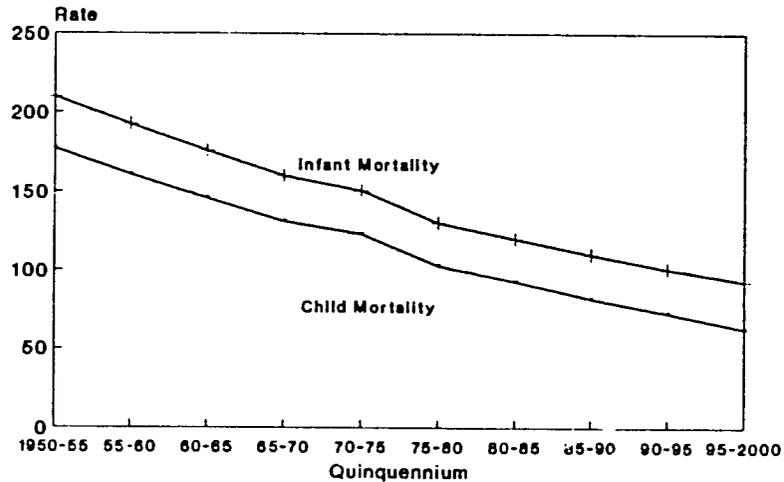
SOURCE: United Nations,
World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



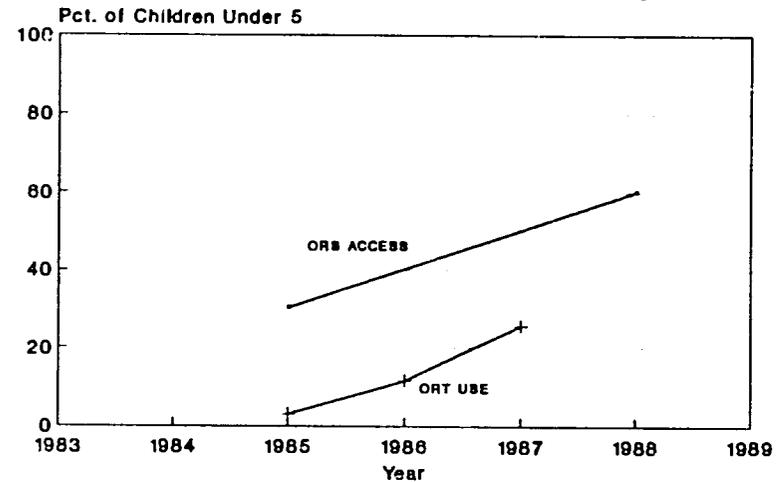
SOURCE: World Health Organization
Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



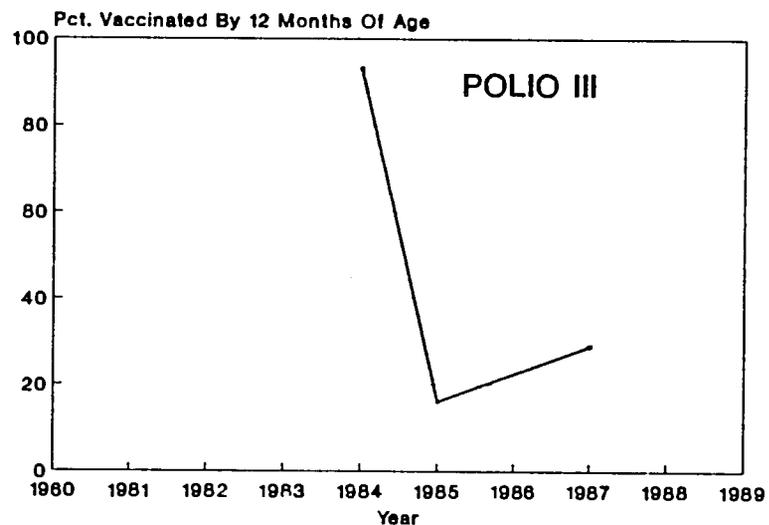
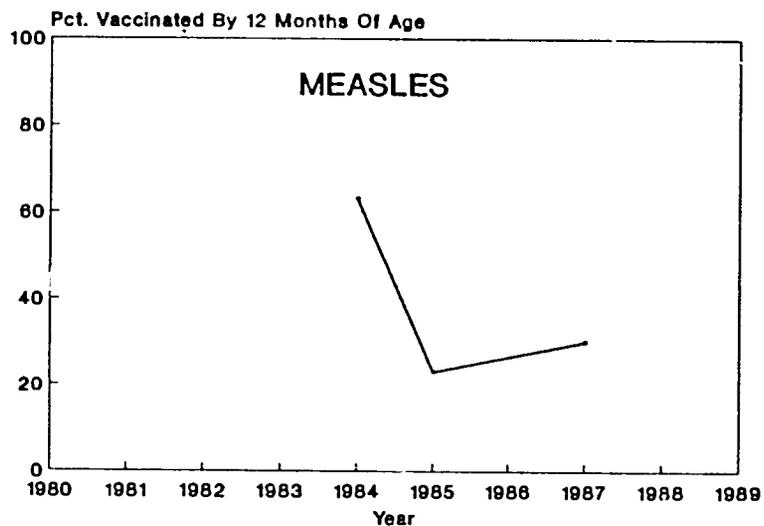
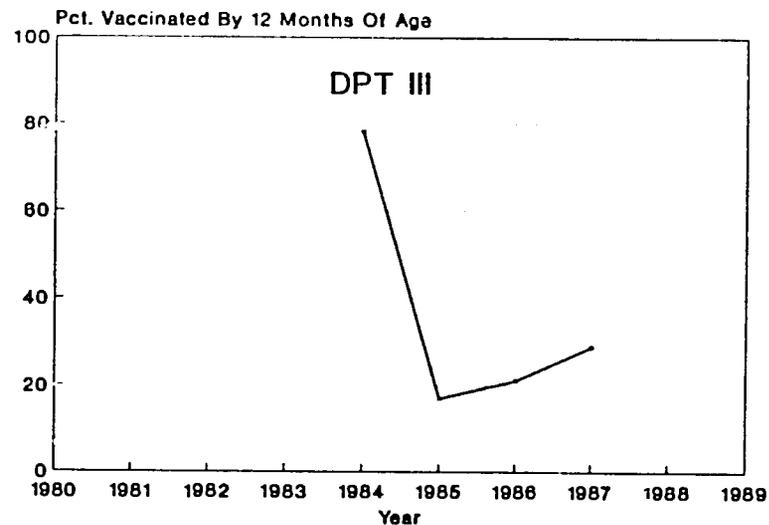
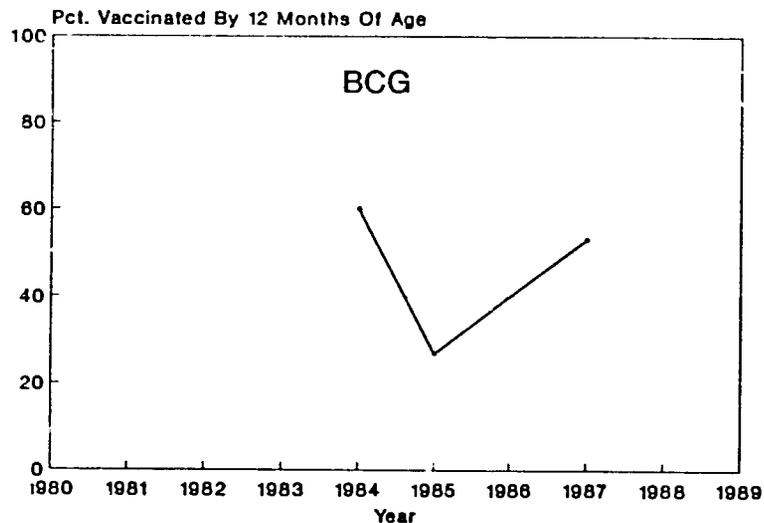
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN BENIN



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

BOTSWANA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 1,241,000 | 1989 | A |
| Infant Mortality Rate | 64/1000 | 1989 | A |
| Life Expectancy At Birth | 59 Yrs | 1989 | A |
| Children Under Age 1 | 55,000 | 1989 | A |
| Annual Infant Deaths | 4,000 | 1989 | A |
| Total Fertility Rate | 6.6 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 95.3% | 1988 | B |
| DPT III | 88.0% | 1988 | B |
| Measles | 87.0% | 1988 | B |
| Polio III | 86.0% | 1988 | B |
| Tetanus !I+ | 40.0% | 1987 | C |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 85% | 1988 | D |
| ORT Use Rate | 64% | 1988 | D |
| Contraceptive Prevalence (Modern) | 28.9% | 1988 | B |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 37% | 1988 | B |
| b) Introduction Of Solids | 73% | 1988 | B |
| Median Duration Of Breastfeeding | N/A | | |

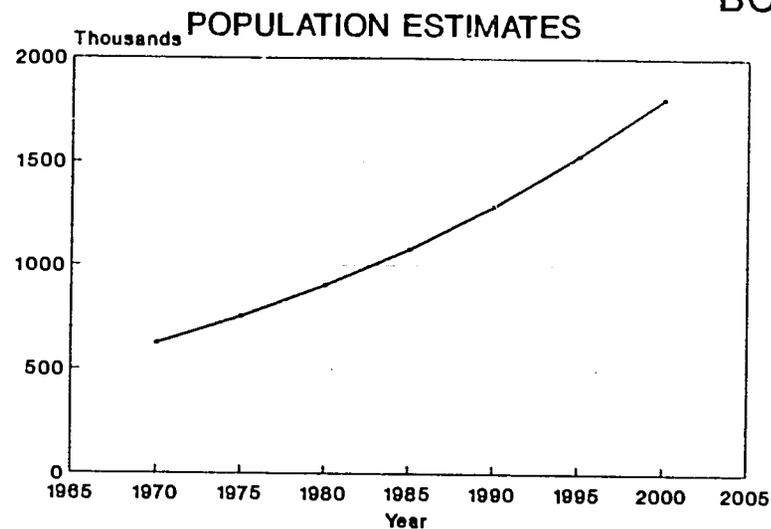
A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

B Family Health Survey II: 1988, Central Statistics Office, Ministry of Finance and Development Planning; Family Health Division of the Ministry of Health; and Demographic and Health Surveys, Institute for Resource Development/Macro Systems, Inc. (The method of computation of vaccination coverage rates is based on an analysis of the comparability of mother's recall to actual data recorded on cards in seven countries. The "correction factor" for mother's recall so determined was applied to those children without cards whose mothers remembered their children as having received at least one vaccination. These figures do not appear on the accompanying graphs.)

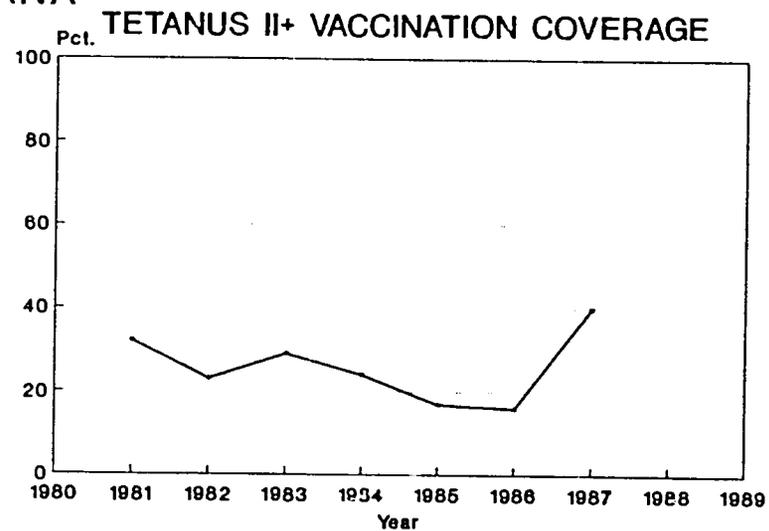
C World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1.

D World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

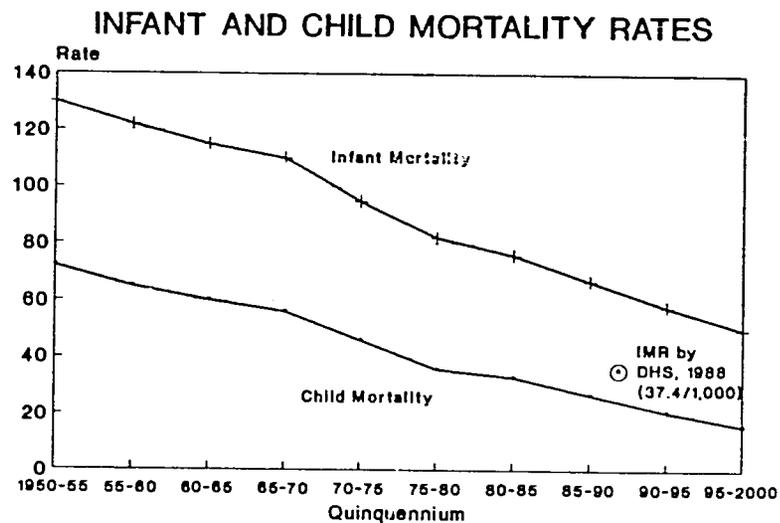
BOTSWANA



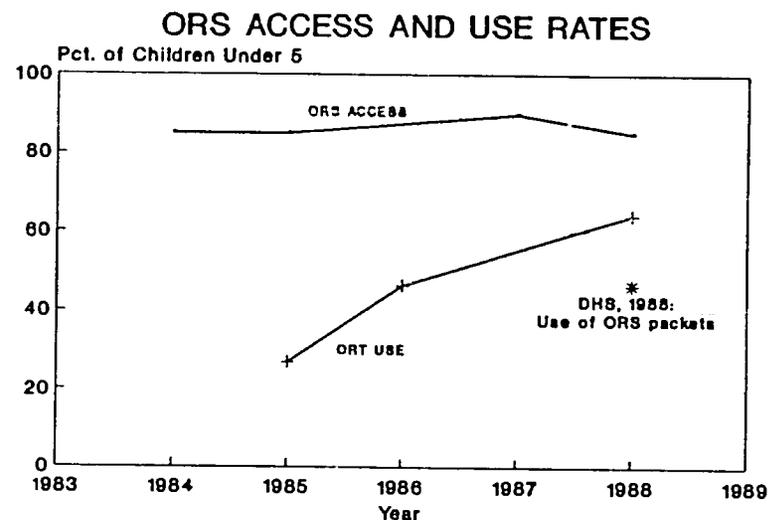
SOURCE: United Nations,
World Population Prospects, 1988



SOURCE: World Health Organization
Annual Reports of the EPI Programme

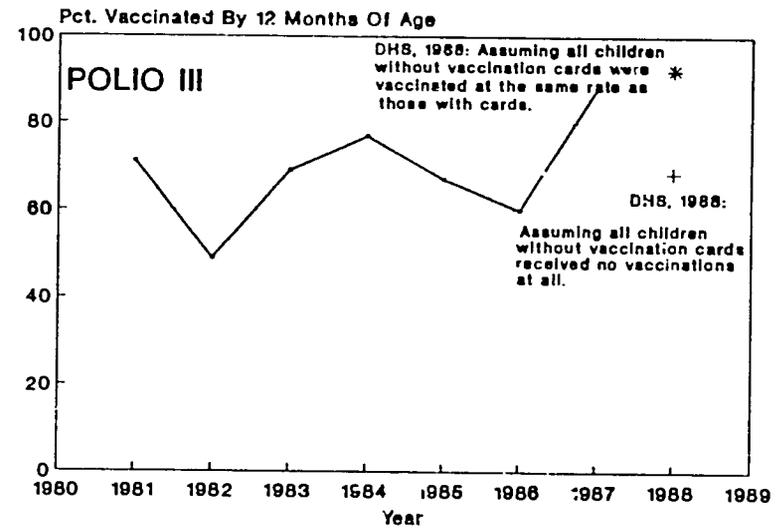
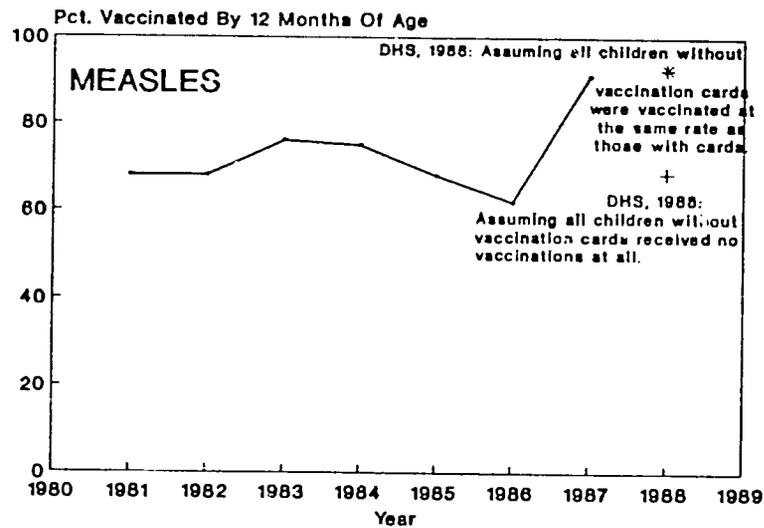
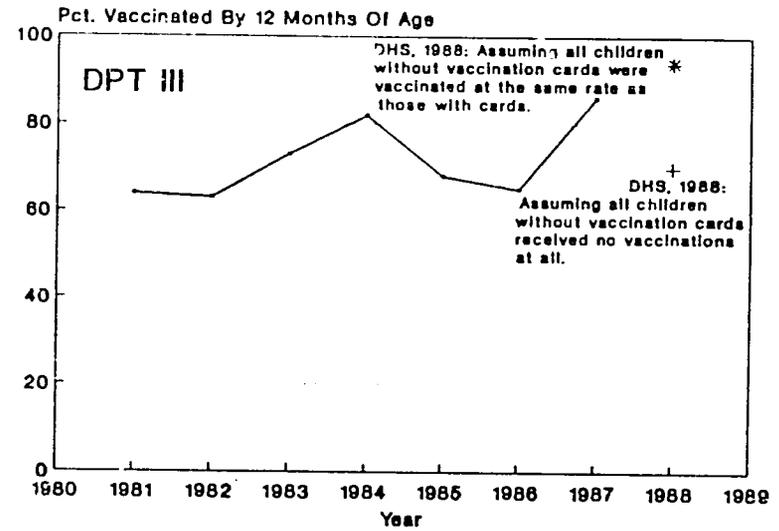
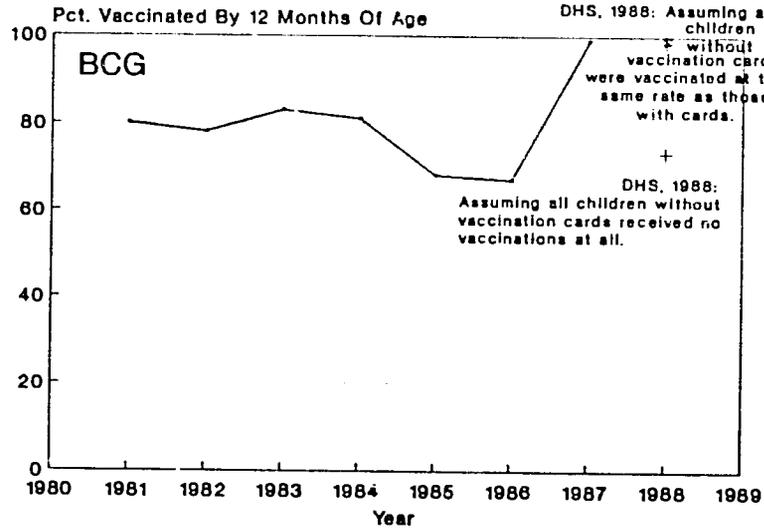


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN BOTSWANA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

BURKINA FASO

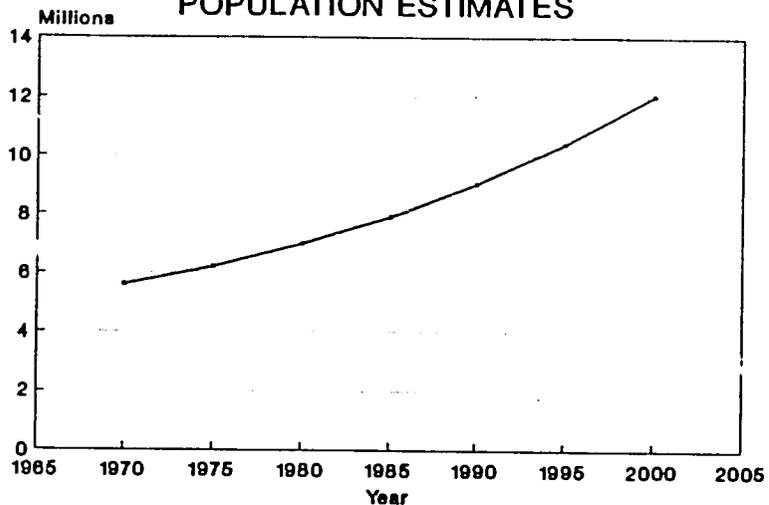
THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 8,763,000 | 1989 | A |
| Infant Mortality Rate | 135/1000 | 1989 | A |
| Life Expectancy At Birth | 48 Yrs | 1989 | A |
| Children Under Age 1 | 373,000 | 1989 | A |
| Annual Infant Deaths | 55,000 | 1989 | A |
| Total Fertility Rate | 6.5 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 72.6% | 1989 | B |
| DPT III | 28.3% | 1989 | B |
| Measles | 47.3% | 1989 | B |
| Polio III | 28.3% | 1989 | B |
| Tetanus II+ | 26% | 1987 | C |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 79% | 1987 | D |
| ORT Use Rate | 16% | 1988 | D |
| Contraceptive Prevalence (Modern) | 1% | 1977 | E |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations. (The Government of Burkina Faso offers the following alternative estimates based on the 1985 National Population Census as cited in the FY 1989 USAID Mission Response Form: Total Population = 8,881,000; Infant Mortality Rate = 134/1,000; Life Expectancy at Birth = 48.5; and Total Fertility Rate = 7.2.)
- B Government of Burkina Faso, National Vaccination Coverage Survey, 2/89 as cited in the FY 1989 USAID Mission Response Form.
- C World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- D World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- E World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

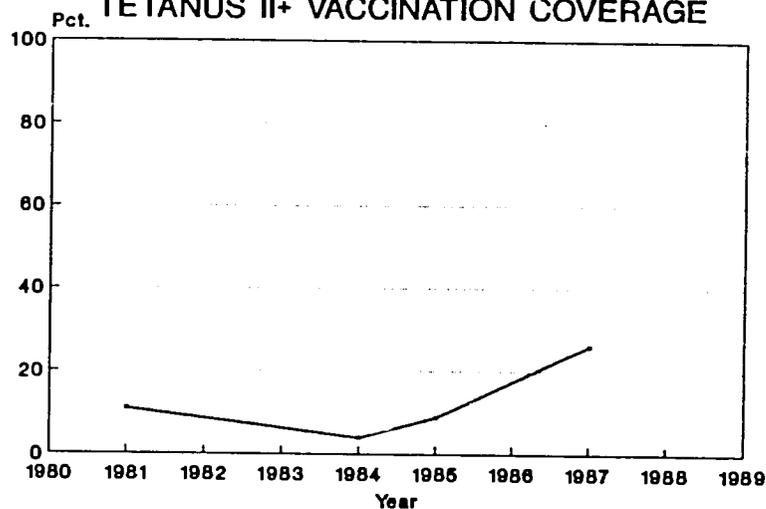
BURKINA FASO

POPULATION ESTIMATES



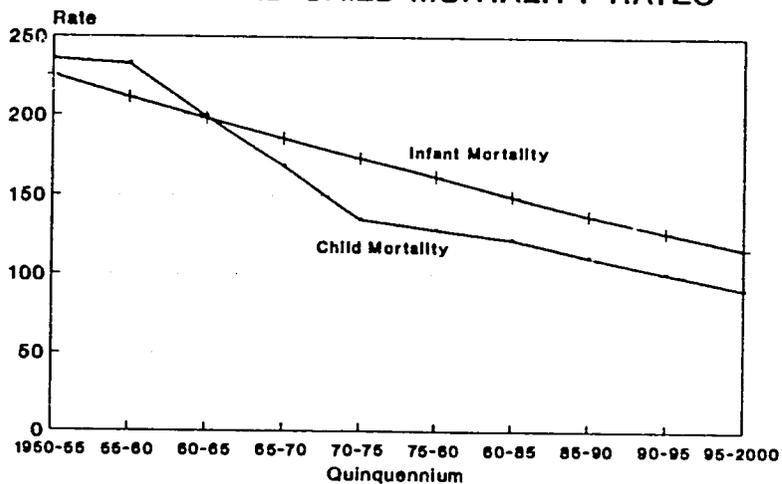
SOURCE: United Nations,
World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



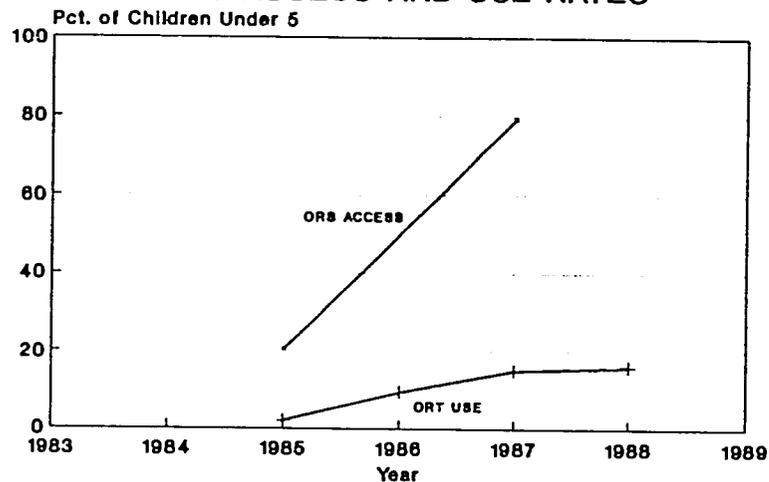
SOURCE: World Health Organization
Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



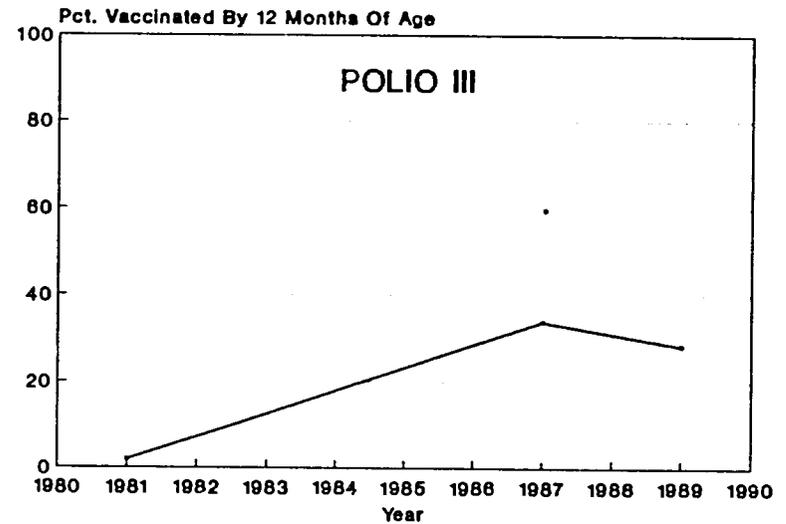
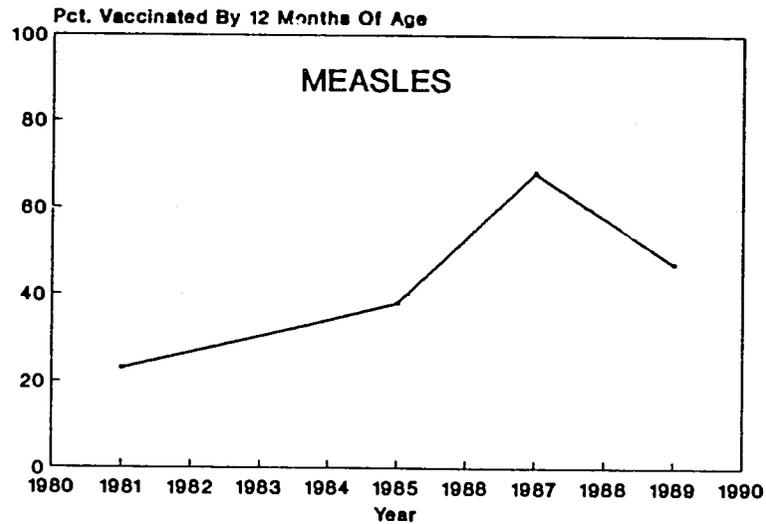
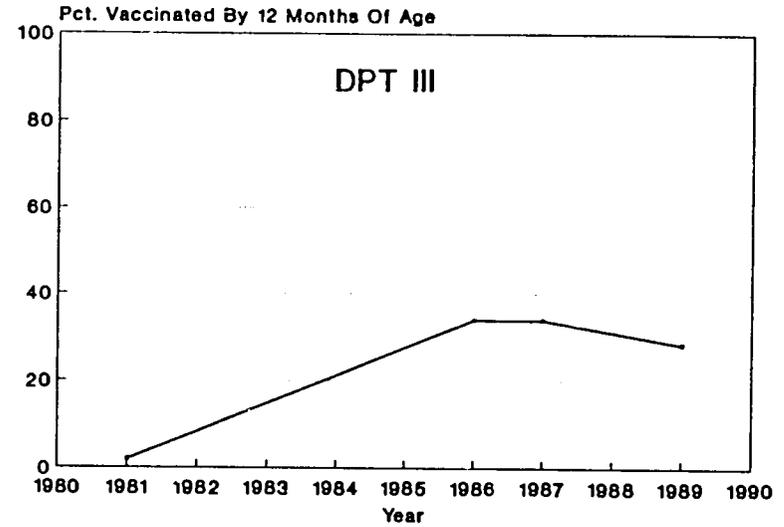
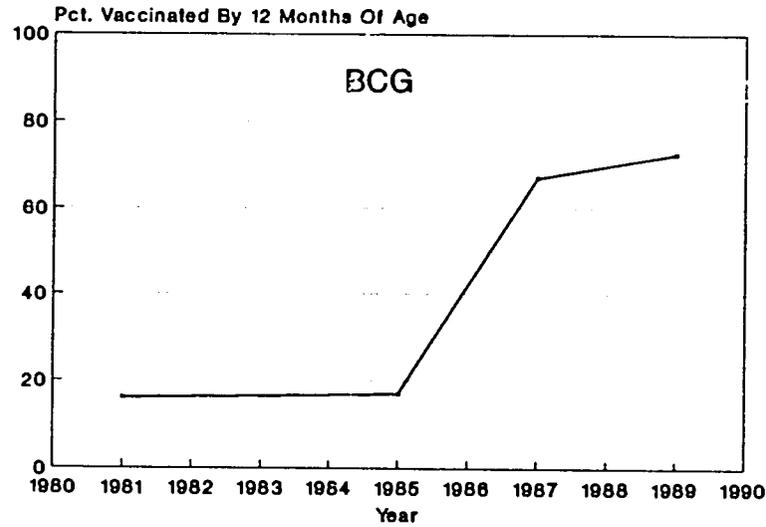
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN BURKINA FASO



SOURCE: WHO, Annual Rep'ts, EPI Programme/1989, Nat'l Survey

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BURUNDI

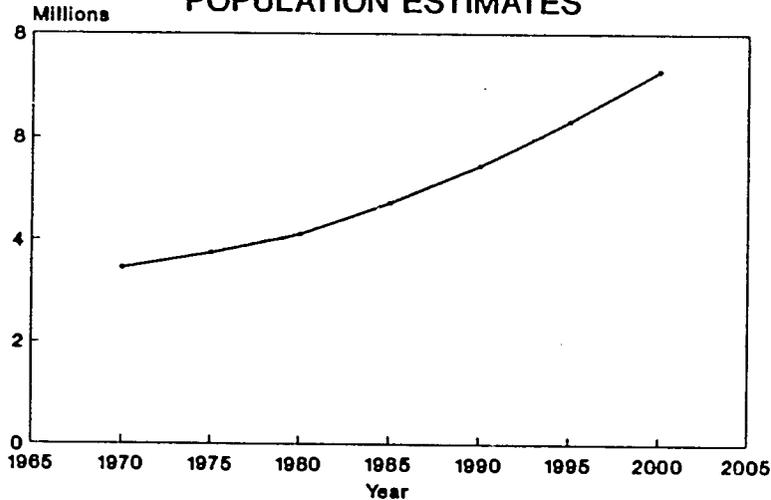
THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 5,237,000 | 1989 | A |
| Infant Mortality Rate | 109/1000 | 1989 | A |
| Life Expectancy At Birth | 50 Yrs | 1989 | A |
| Children Under Age 1 | 219,000 | 1989 | A |
| Annual Infant Deaths | 26,000 | 1989 | A |
| Total Fertility Rate | 6.3 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 53% | 1989 | B |
| DPT III | 47% | 1989 | B |
| Measles | 39% | 1989 | B |
| Polio III | 49% | 1989 | B |
| Tetanus II+ | 49% | 1989 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 60% | 1987 | C |
| ORT Use Rate | 30% | 1988 | C |
| Contraceptive Prevalence (Modern) | 1% | 1987 | D |
| Adequate Nutritional Status | 60.5% | 1987 | D |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 84% | 1987 | D |
| b) Introduction Of Solids | 71% | 1987 | D |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Enquete Demographique et de Sante au Burundi, 1987 (DHS) Institute for Resource Development/Westinghouse.

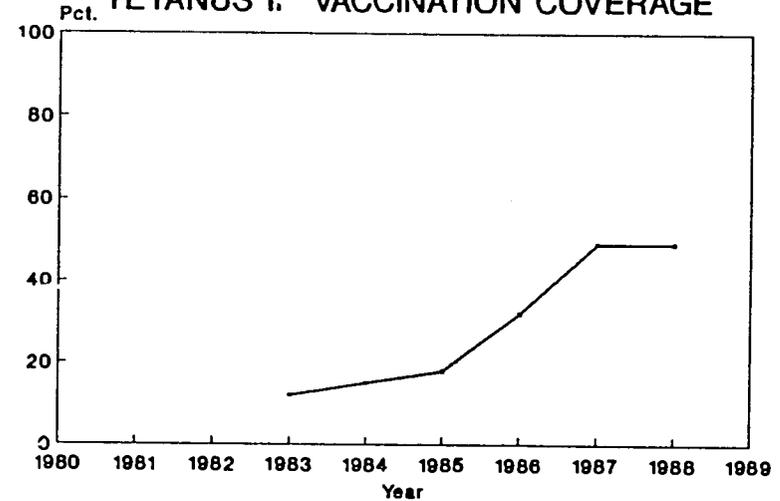
BURUNDI

POPULATION ESTIMATES



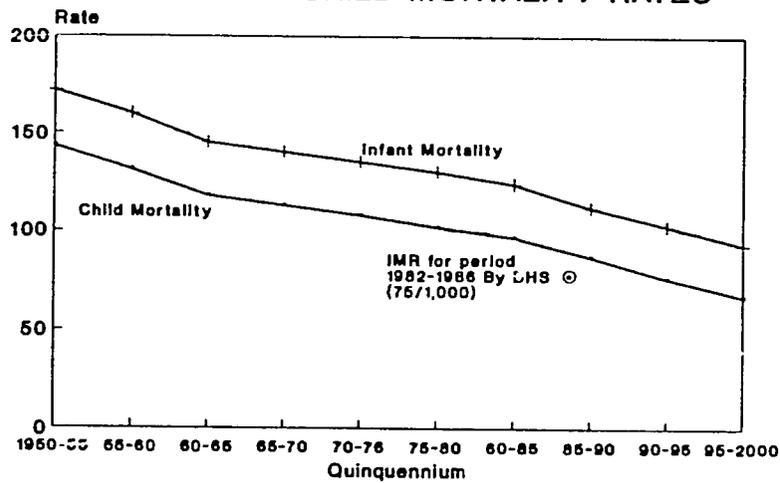
SOURCE: United Nations,
World Population Prospects, 1988

TETANUS I. VACCINATION COVERAGE



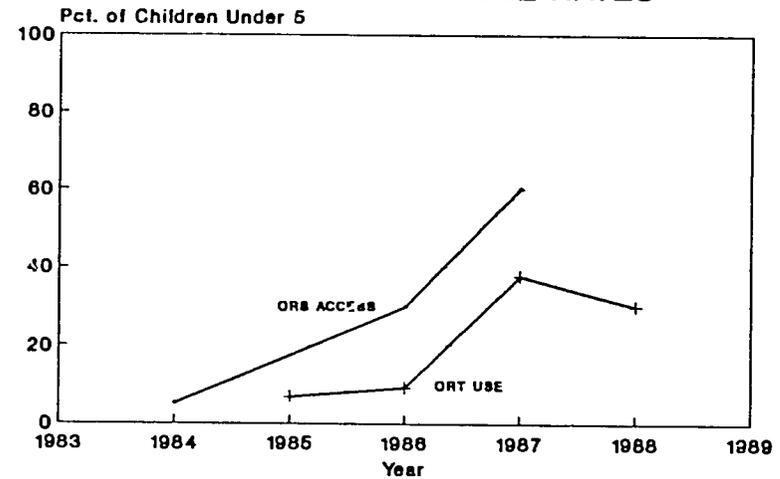
SOURCE: World Health Organization
Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



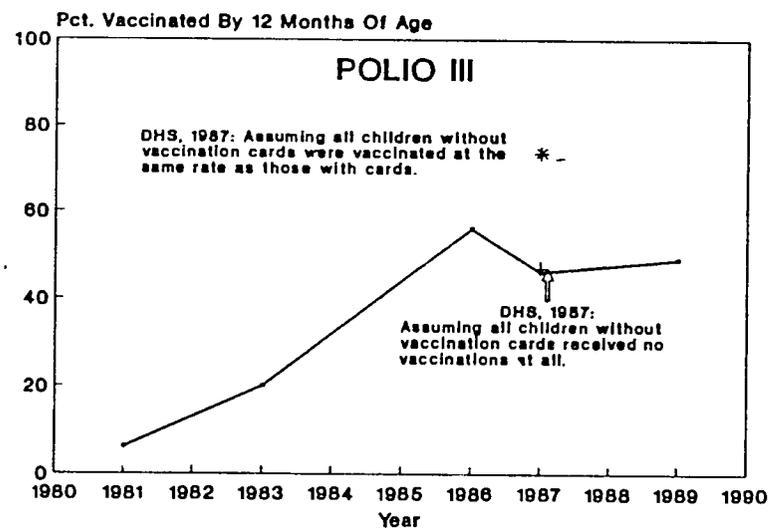
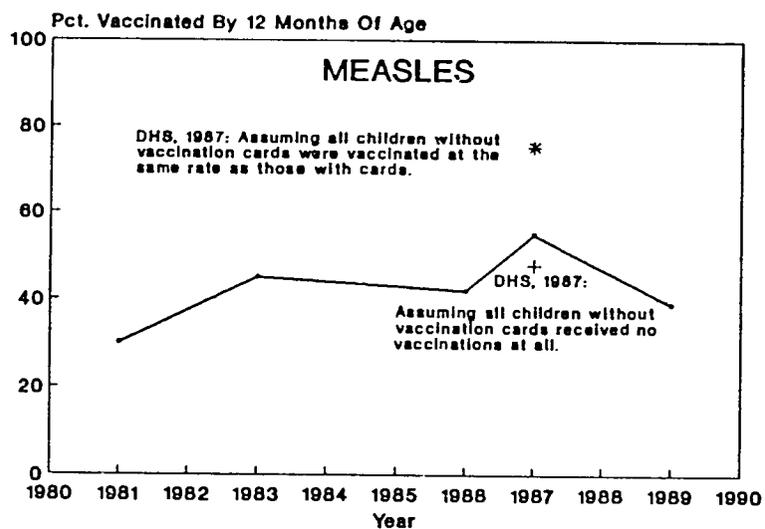
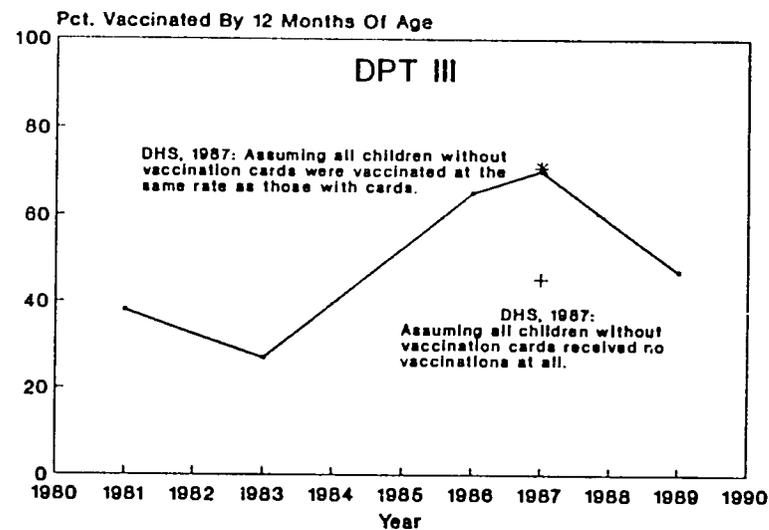
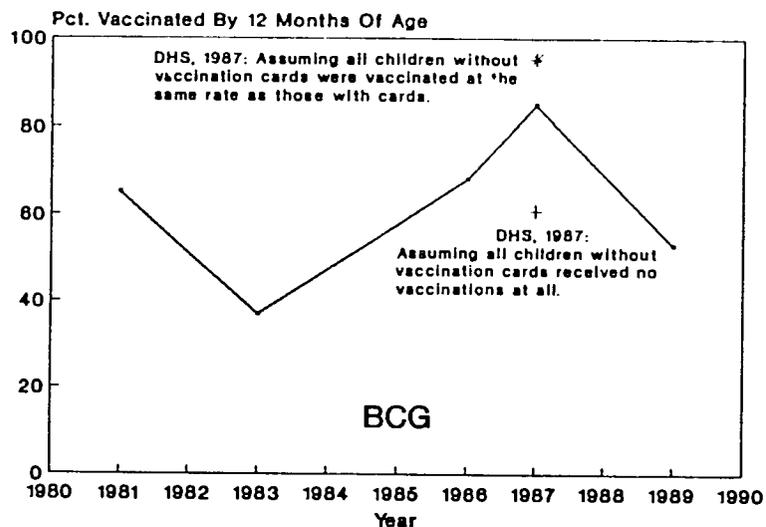
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization,
Annual Reports of the CDD Programme
(1987 Use Rate, DHS)

VACCINATION COVERAGE RATES IN BURUNDI



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

CAMEROON

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 10,954,000 | 1989 | A |
| Infant Mortality Rate | 92/1000 | 1989 | A |
| Life Expectancy At Birth | 52 Yrs | 1989 | A |
| Children Under Age 1 | 426,000 | 1989 | A |
| Annual Infant Deaths | 42,000 | 1989 | A |
| Total Fertility Rate | 5.8 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 24% | 1988 | B |
| DPT III | 19% | 1988 | B |
| Measles | 13% | 1988 | B |
| Polio III | 18% | 1988 | B |
| Tetanus II+ | 13% | 1988 | B |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 36% | 1988 | C |
| ORT Use Rate | 24% | 1988 | C |
| Contraceptive Prevalence (Modern) | 1% | 1978 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

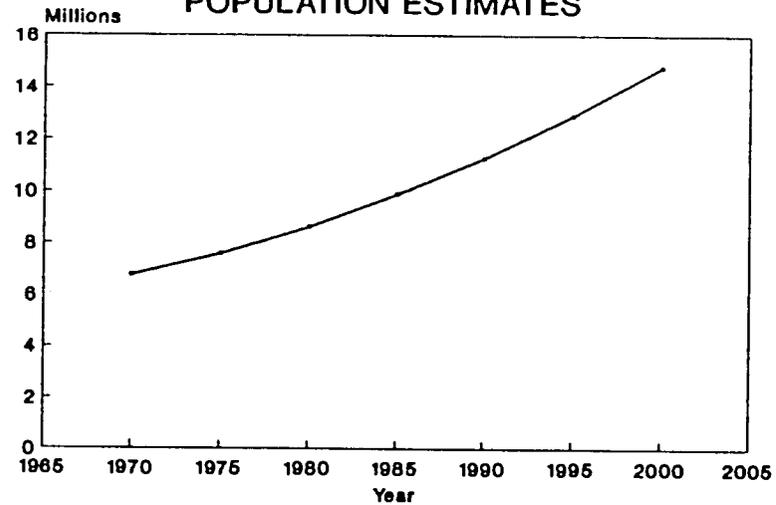
B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1.

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

D 1978 World Fertility Survey as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

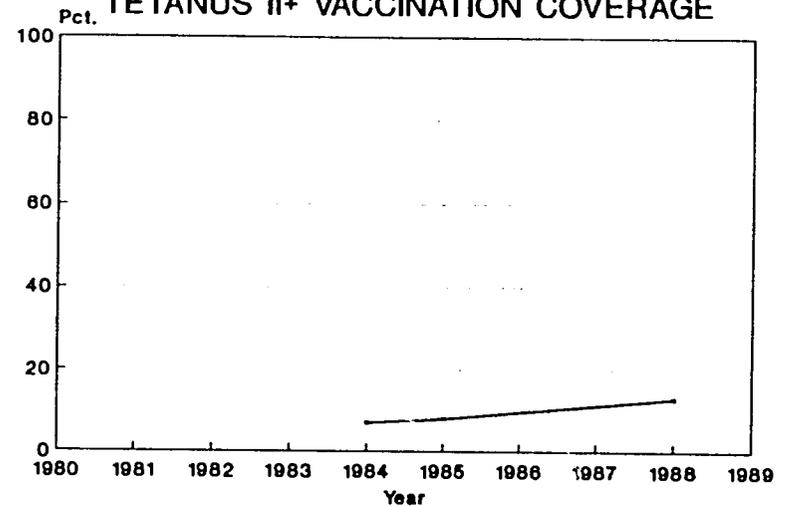
CAMEROON

POPULATION ESTIMATES



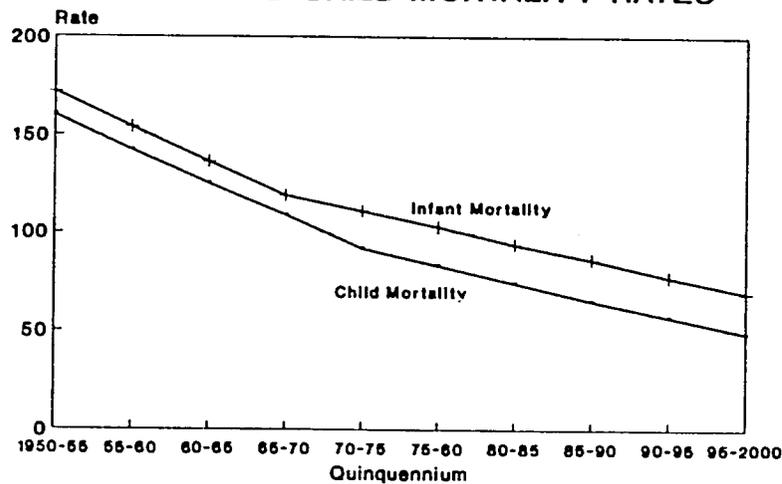
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



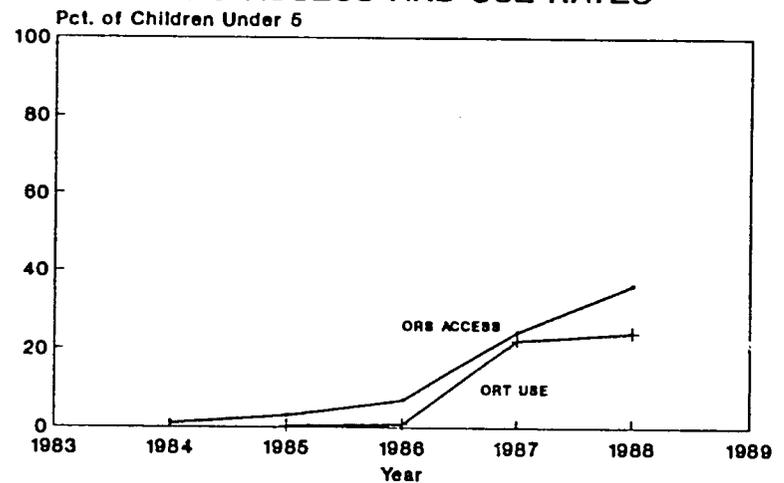
SOURCE: World Health Organization Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



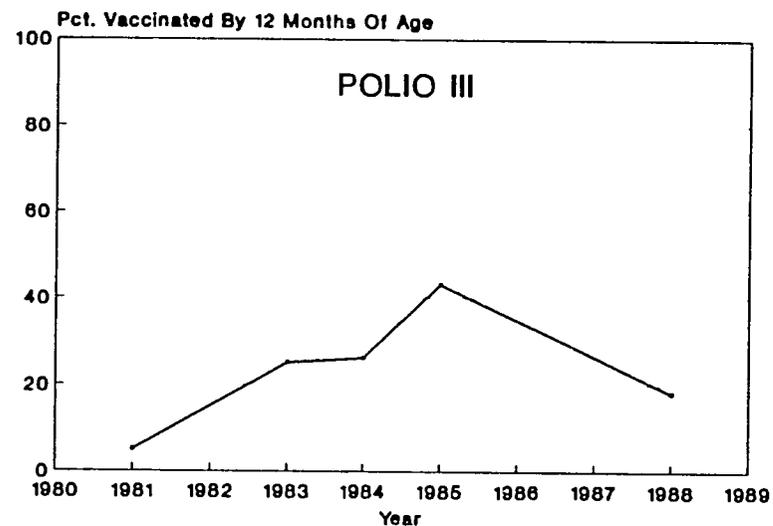
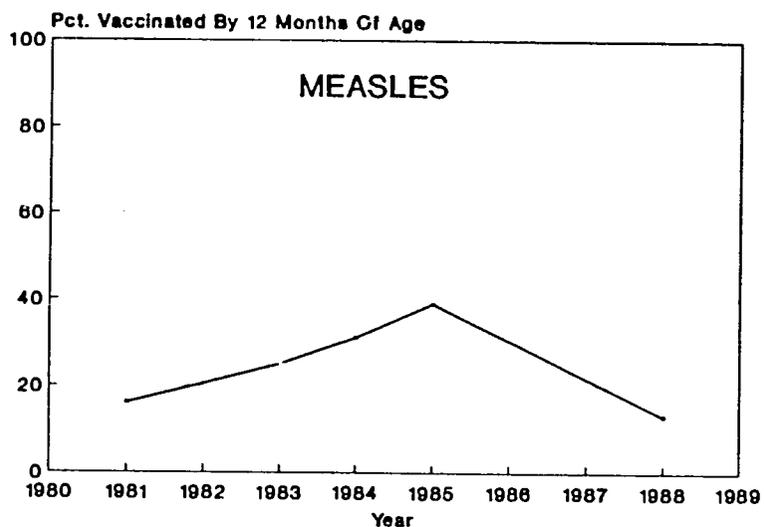
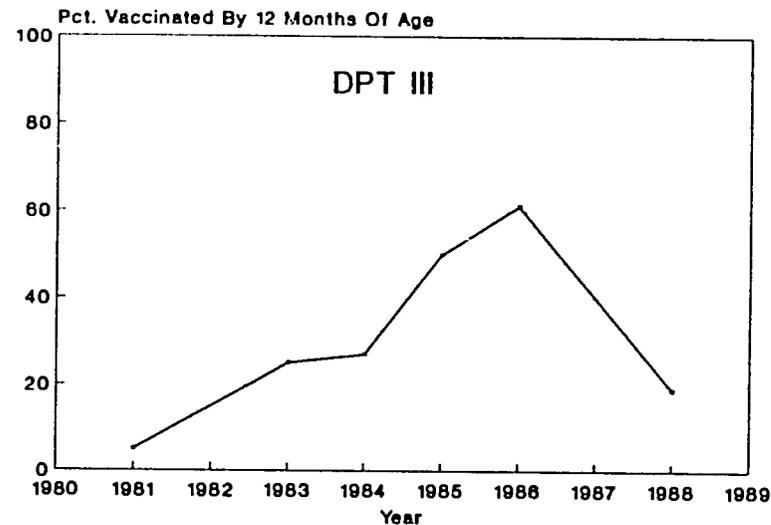
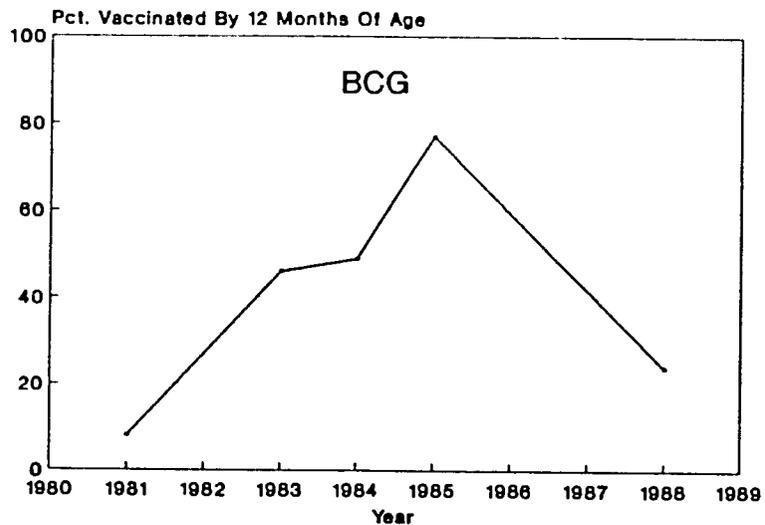
SOURCE: United Nations, 1988
 1) World Population Prospects, and
 2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN CAMEROON



SOURCE: WHO, Annual Reports of the EPI Programme

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CENTRAL AFRICAN REPUBLIC

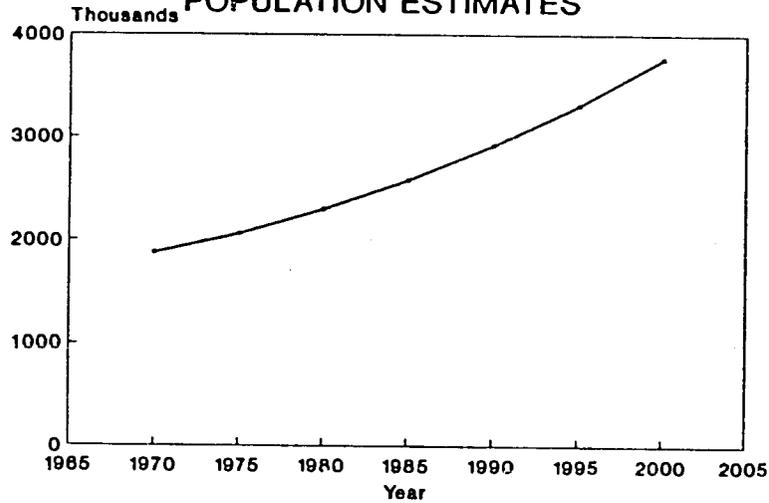
THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 2,841,000 | 1989 | A |
| Infant Mortality Rate | 129/1000 | 1989 | A |
| Life Expectancy At Birth | 46 Yrs | 1989 | A |
| Children Under Age 1 | 114,000 | 1989 | A |
| Annual Infant Deaths | 16,000 | 1989 | A |
| Total Fertility Rate | 5.9 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 85% | 1989 | B |
| DPT III | 47% | 1989 | B |
| Measles | 81% | 1989 | B |
| Polio III | 45% | 1989 | B |
| Tetanus II+ | 47% | 1989 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 41% | 1988 | C |
| ORT Use Rate | 15% | 1988 | C |
| Contraceptive Prevalence | N/A | | |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

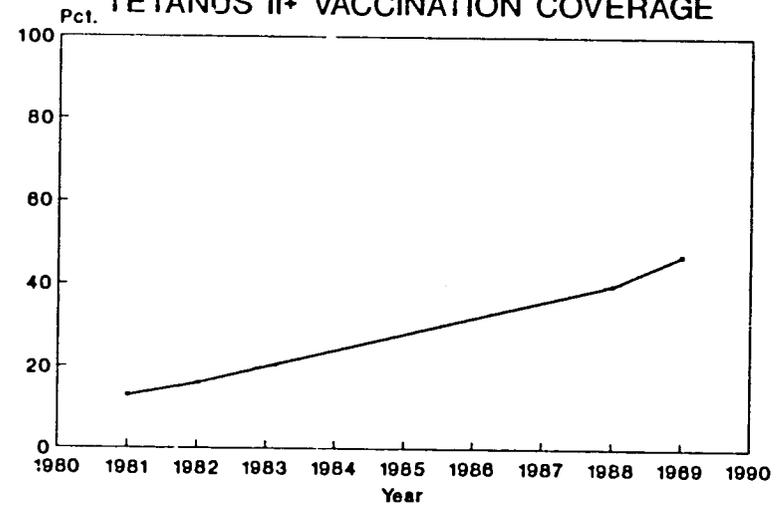
CENTRAL AFRICAN REPUBLIC

POPULATION ESTIMATES



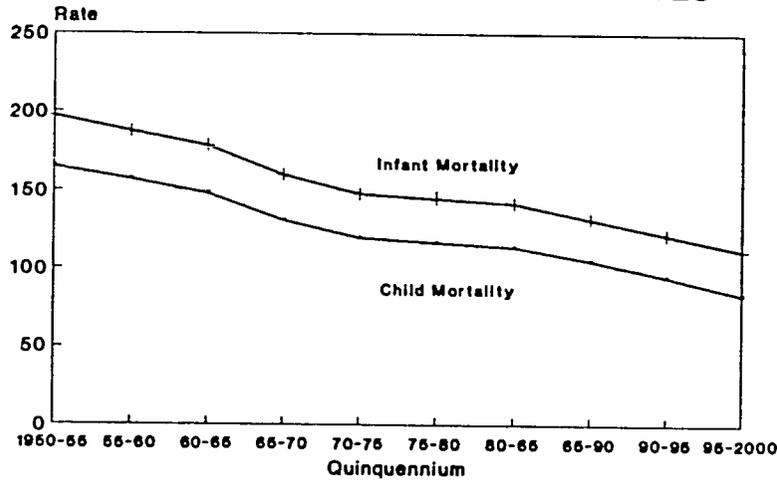
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



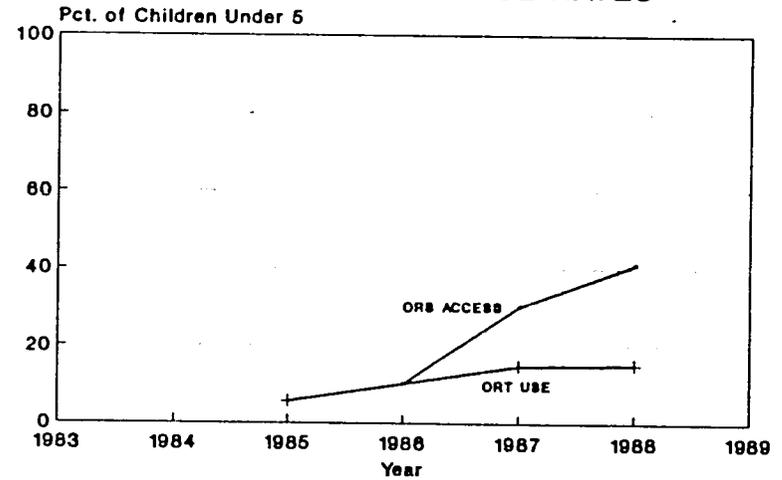
SOURCE: WHO, Annual EPI Programme Rep'ts (1988: Nat'l Vaccination Coverage Surv.)

INFANT AND CHILD MORTALITY RATES



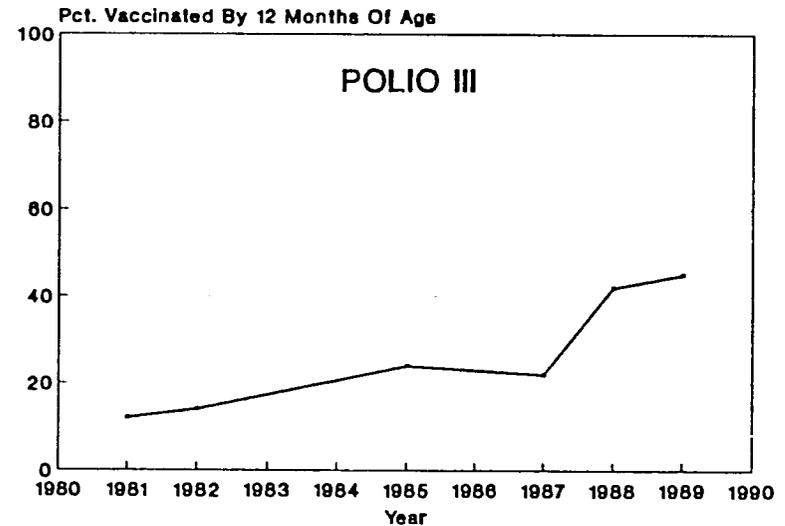
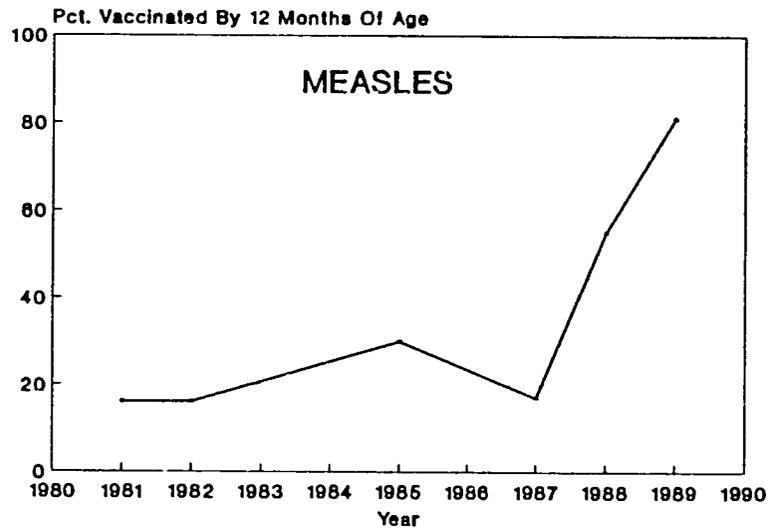
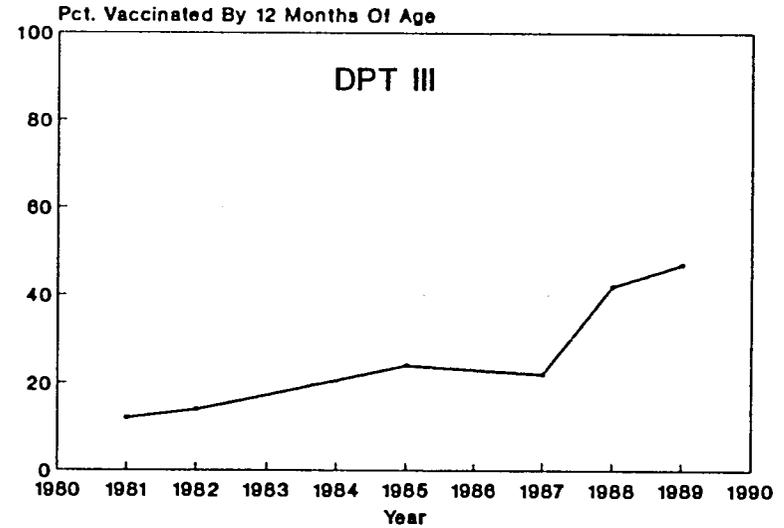
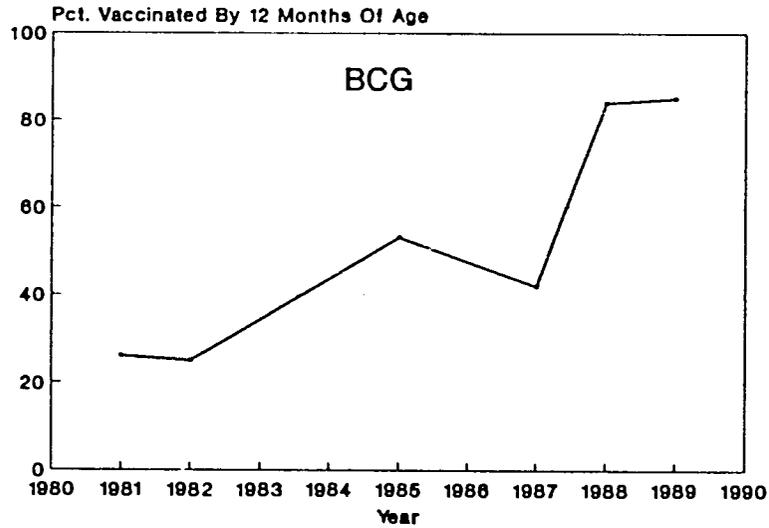
SOURCE: United Nations, 1988
 1) World Population Prospects, and
 2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN CENTRAL AFRICAN REPUBLIC



SOURCE: WHO, EPI Annual Reports/1988: Nat'l Coverage Survey

CIHI, ISTI; 3/90

CHAD

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 5,538,000 | 1989 | A |
| Infant Mortality Rate | 129/1000 | 1989 | A |
| Life Expectancy At Birth | 46 Yrs | 1989 | A |
| Children Under Age 1 | 221,000 | 1989 | A |
| Annual Infant Deaths | 31,000 | 1989 | A |
| Total Fertility Rate | 5.9 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 31% | 1987 | B |
| DPT III | 13% | 1987 | B |
| Measles | 16% | 1987 | B |
| Polio III | 13% | 1987 | B |
| Tetanus II+ | 15% | 1987 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 22% | 1988 | C |
| ORT Use Rate | 2% | 1988 | C |
| Contraceptive Prevalence | 1% | 1977 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

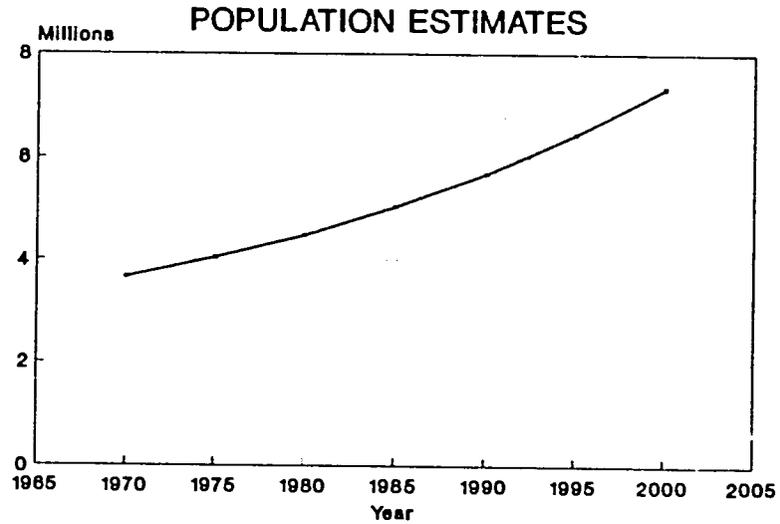
A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.

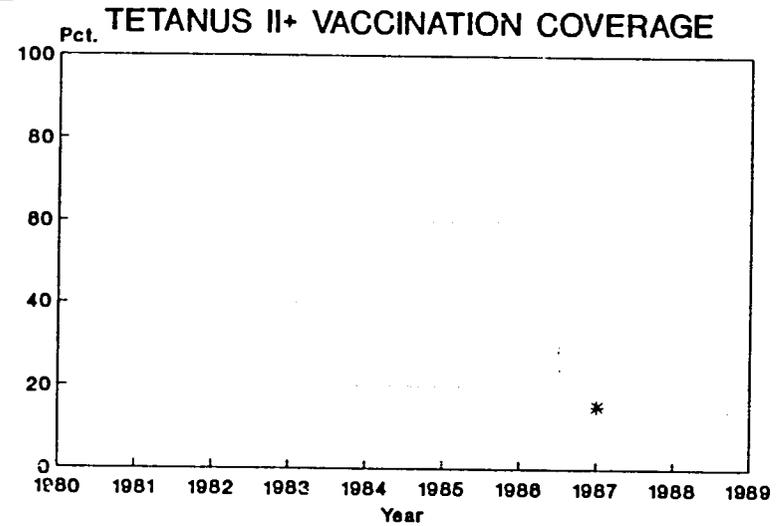
C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

D World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

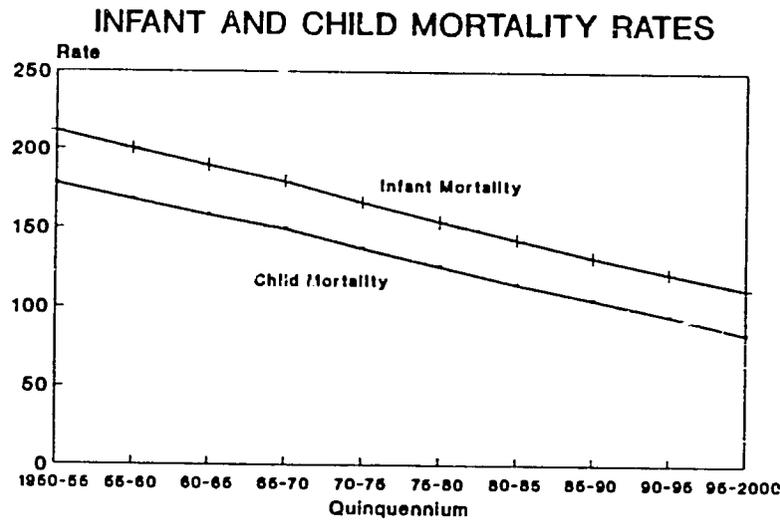
CHAD



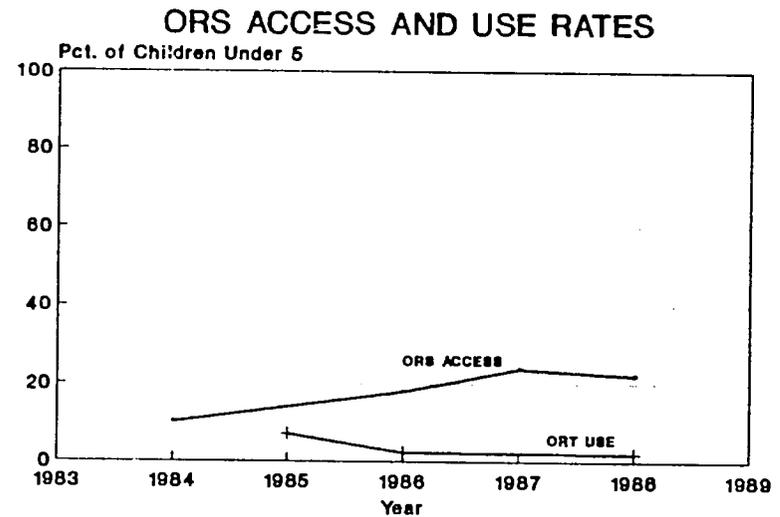
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

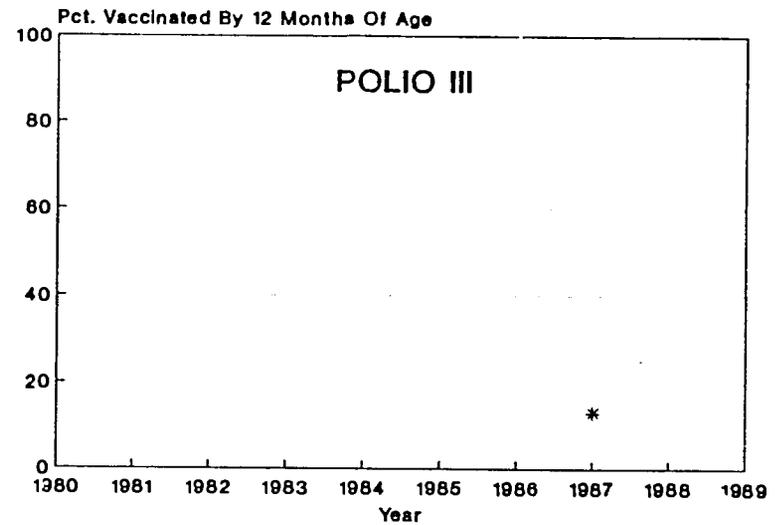
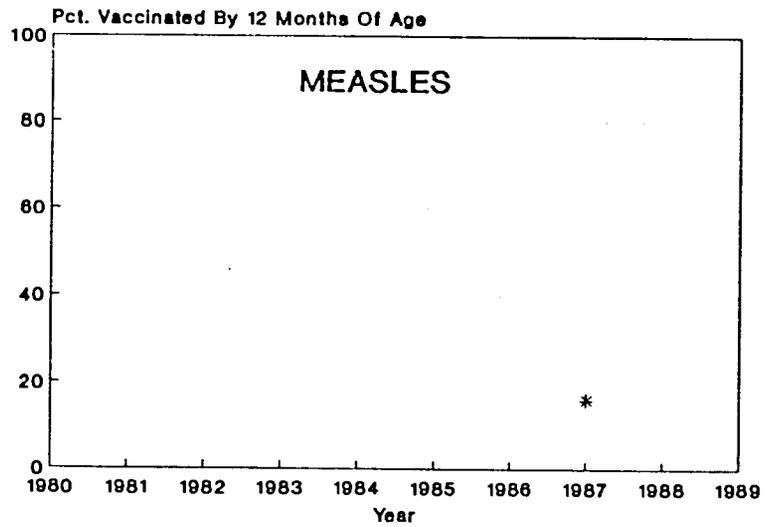
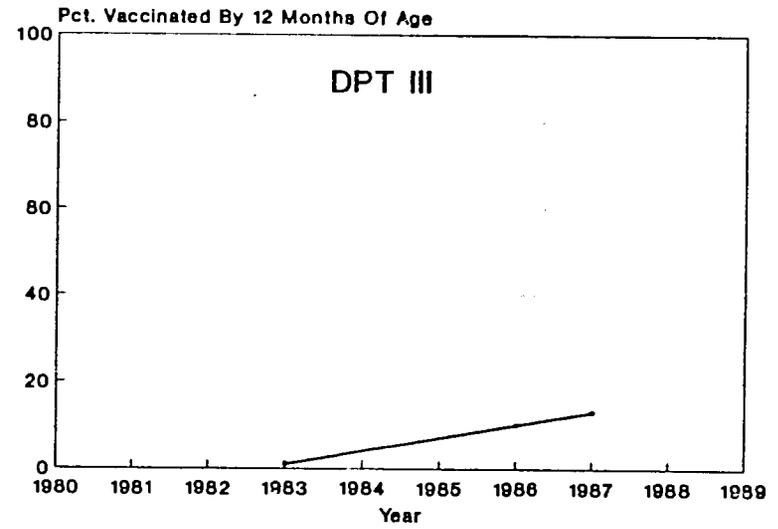
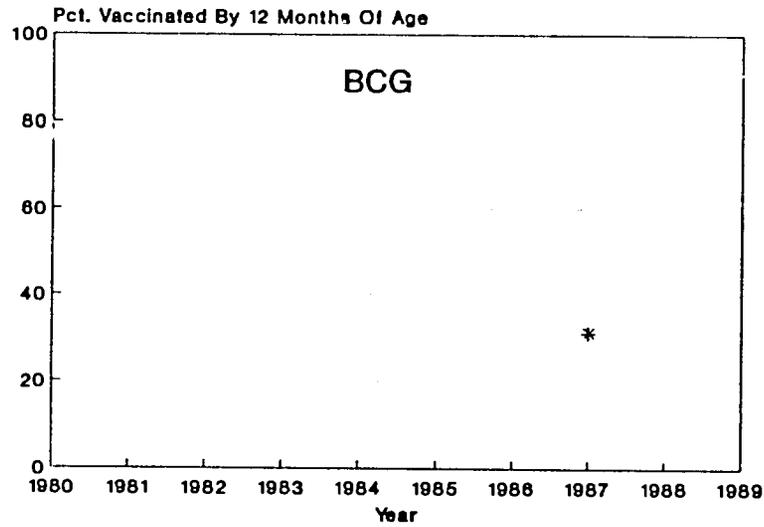


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN CHAD



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

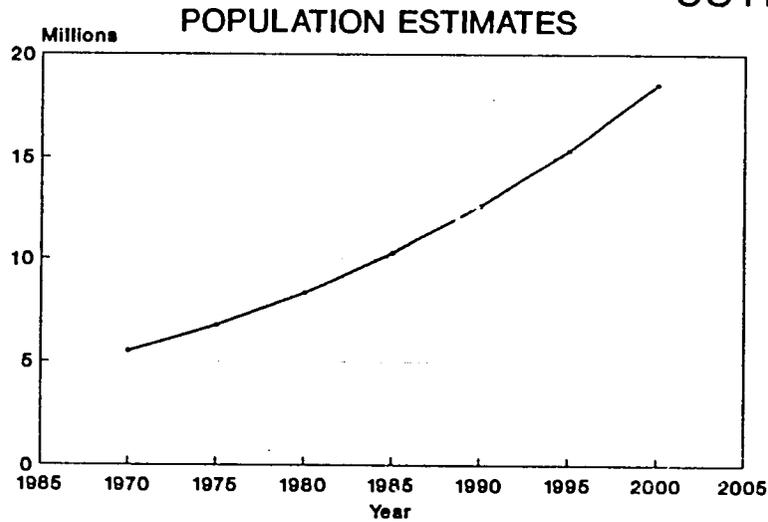
COTE D'IVOIRE

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

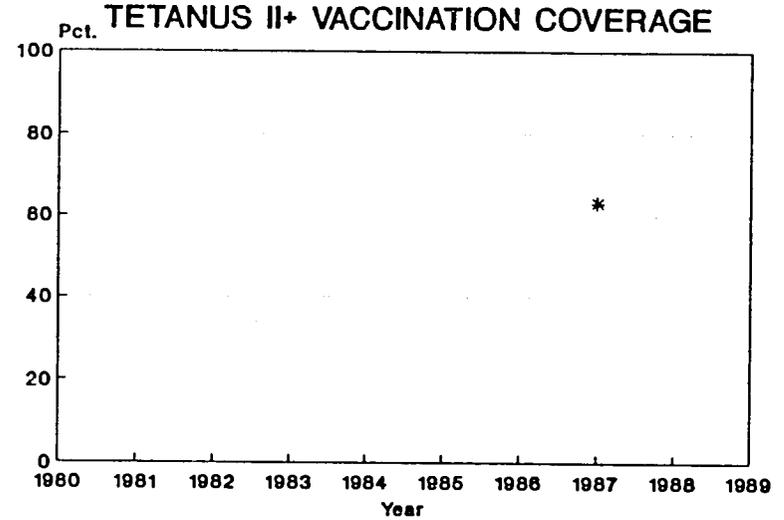
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 12,097,000 | 1989 | A |
| Infant Mortality Rate | 93/1000 | 1989 | A |
| Life Expectancy At Birth | 53 Yrs | 1989 | A |
| Children Under Age 1 | 184,000 | 1989 | A |
| Annual Infant Deaths | 57,000 | 1989 | A |
| Total Fertility Rate | 7.4 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 53% | 1987 | B |
| DPT III | 71% | 1987 | B |
| Measles | 85% | 1987 | B |
| Polio III | 71% | 1987 | B |
| Tetanus II+ | 63% | 1987 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 12% | 1988 | C |
| ORT Use Rate | 16% | 1988 | C |
| Contraceptive Prevalence (Modern) | 1% | 1980/81 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D 1980/81 World Fertility Survey as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

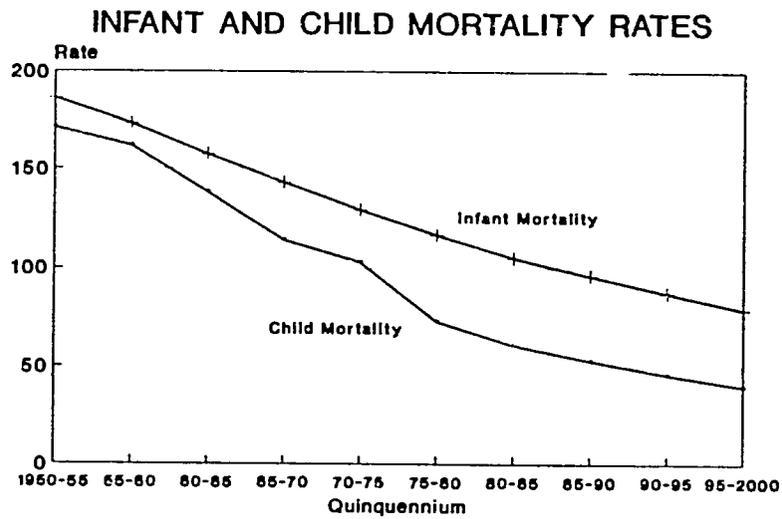
COTE D'IVOIRE



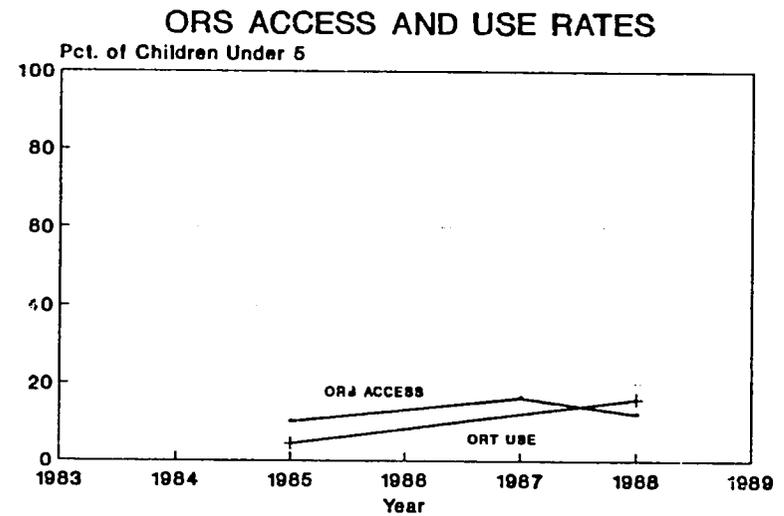
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

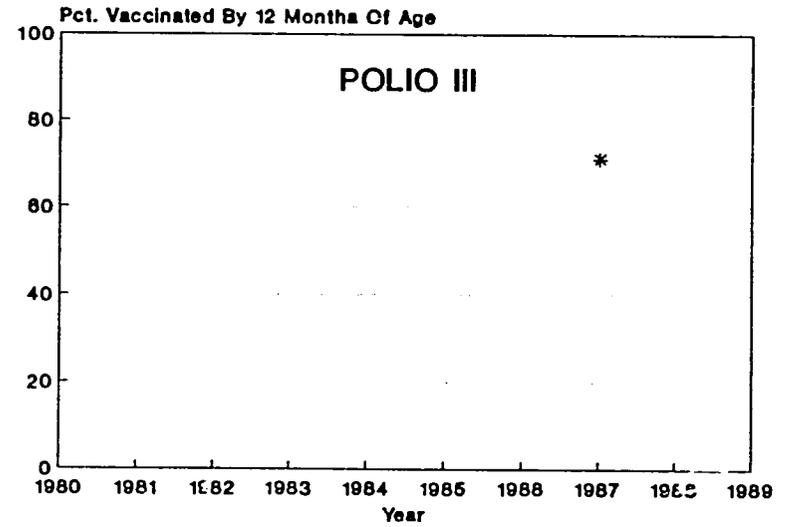
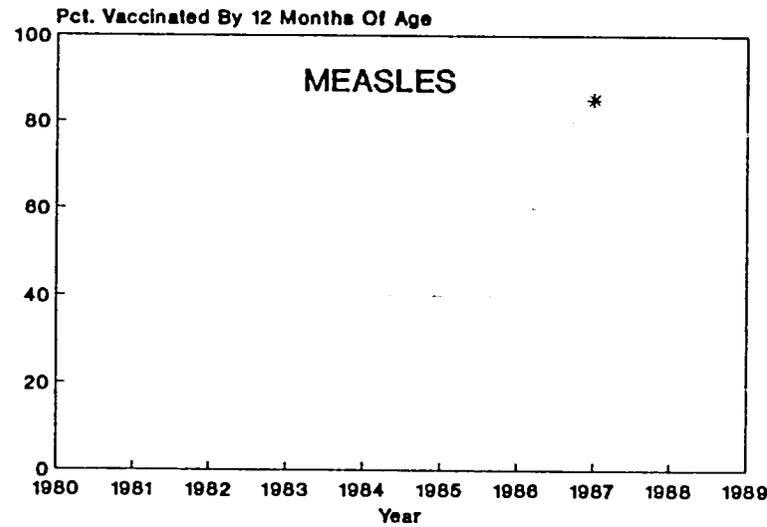
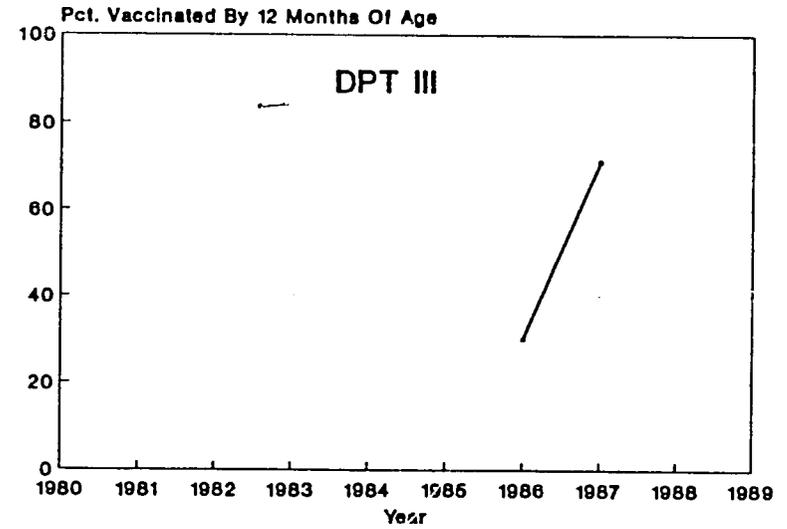
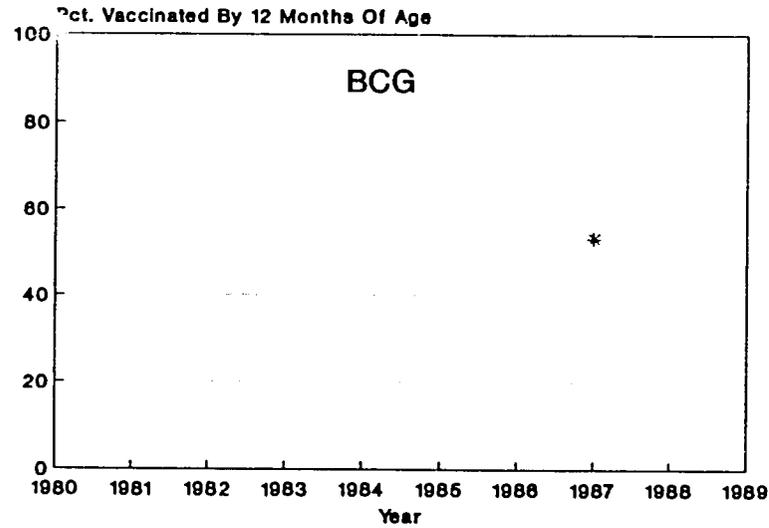


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN COTE D'IVOIRE



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

DJIBOUTI

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

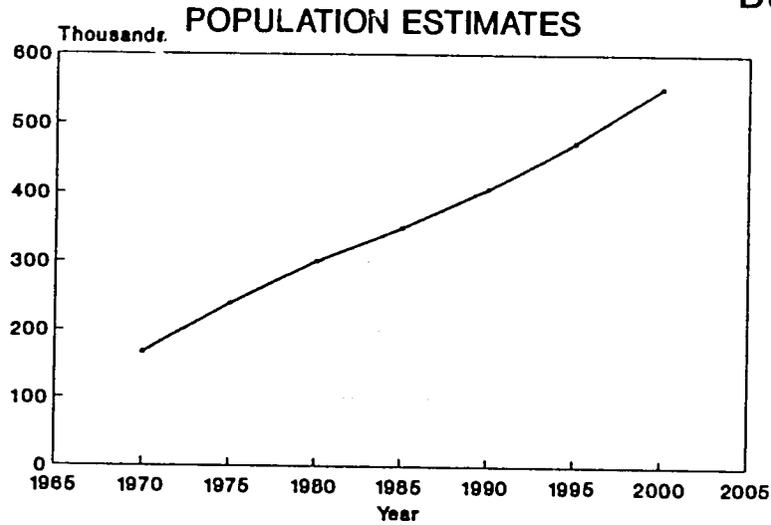
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 394,000 | 1989 | A |
| Infant Mortality Rate | 119/1000 | 1989 | A |
| Life Expectancy At Birth | 48 Yrs | 1989 | A |
| Children Under Age 1 | 17,000 | 1989 | A |
| Annual Infant Deaths | 2,000 | 1989 | A |
| Total Fertility Rate | 6.6 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 87% | 1989 | B |
| DPT III | 65% | 1989 | B |
| Measles | 68% | 1989 | B |
| Polio III | 65% | 1989 | B |
| Tetanus II+ | 59% | 1989 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 76% | 1987 | C |
| ORT Use Rate | 51% | 1988 | C |
| Contraceptive Prevalence | N/A | | |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

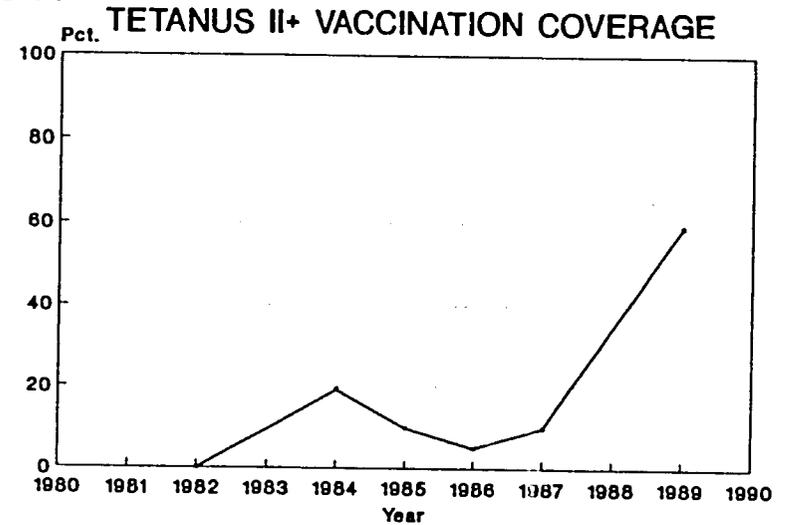
B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1.

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

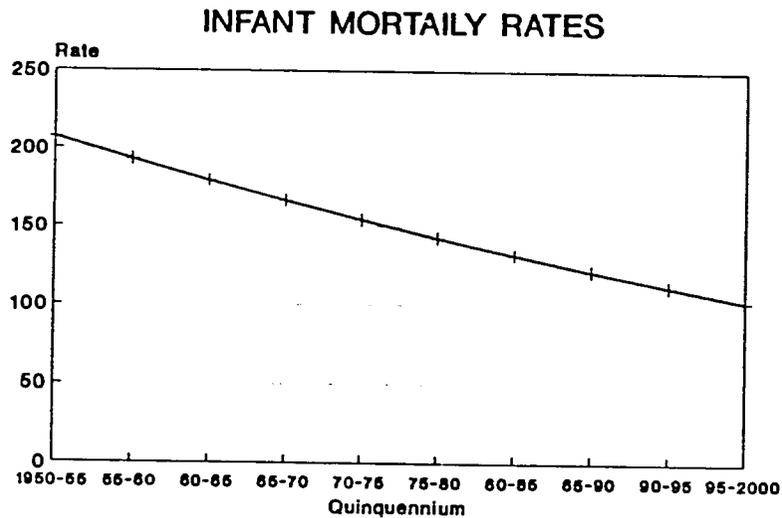
DJIBOUTI



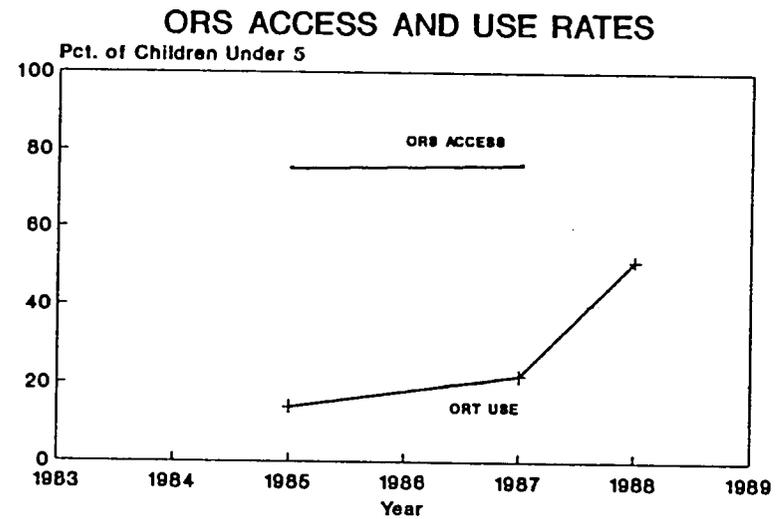
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

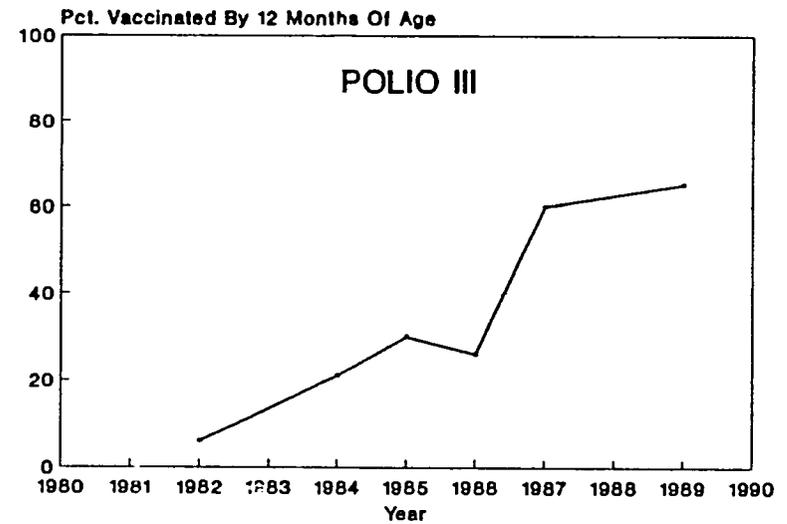
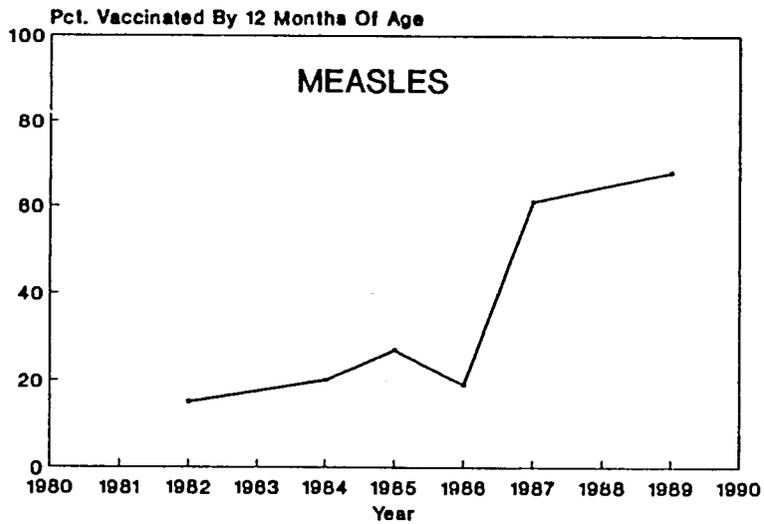
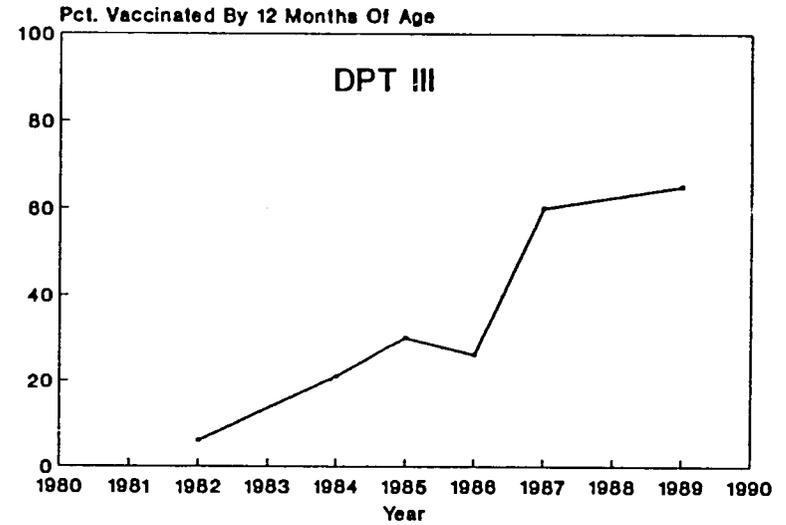
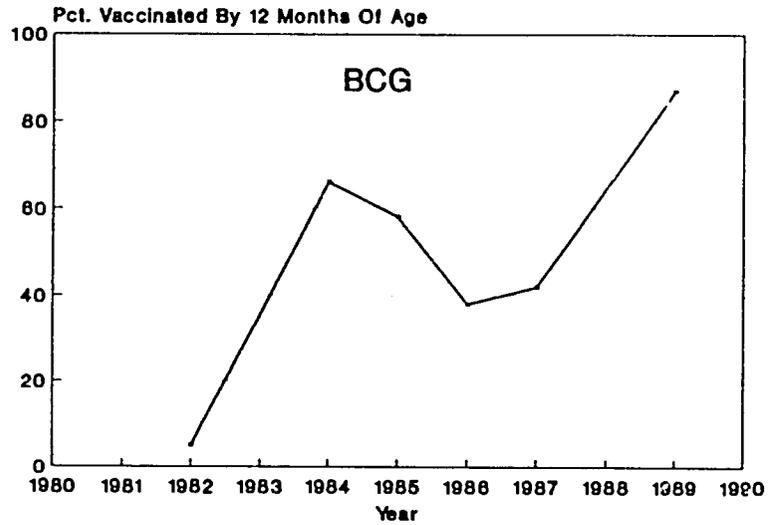


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN DJIBOUTI



SOURCE: WHO, Annual Reports of the EPI Programme

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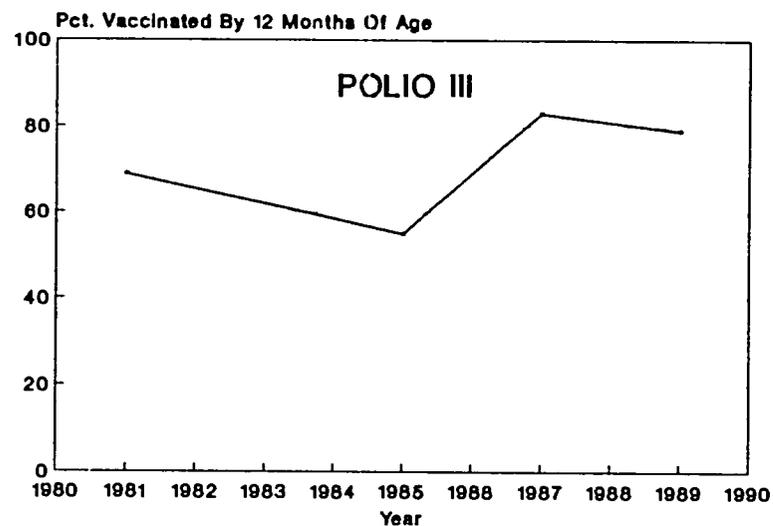
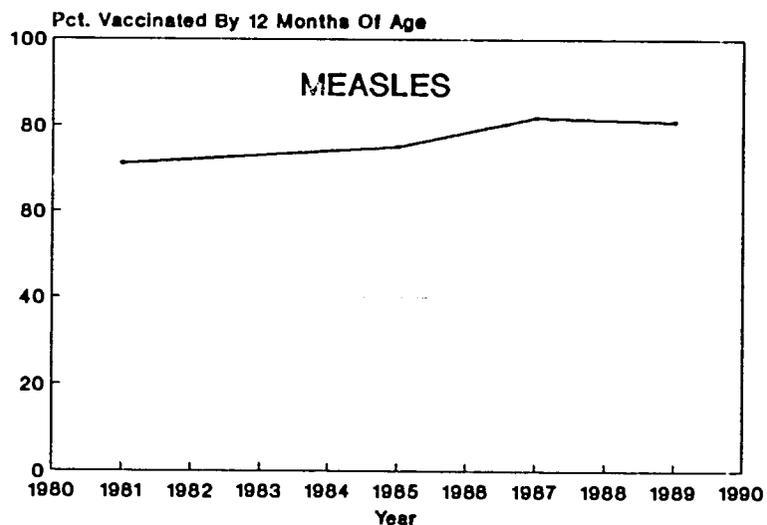
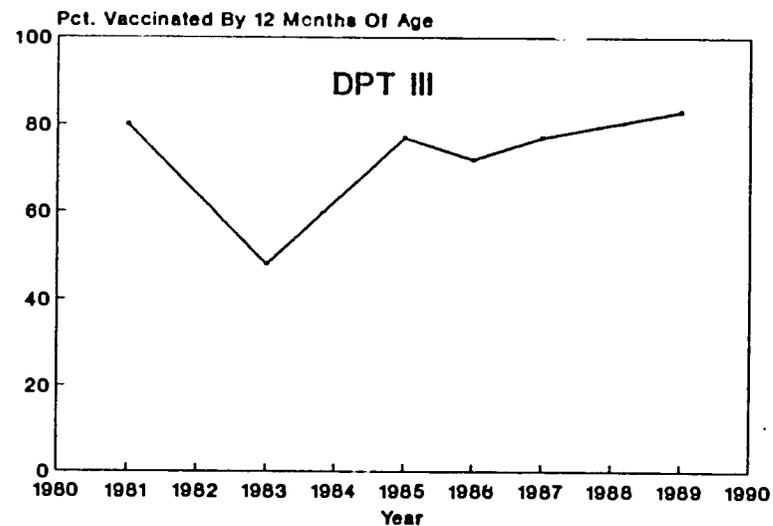
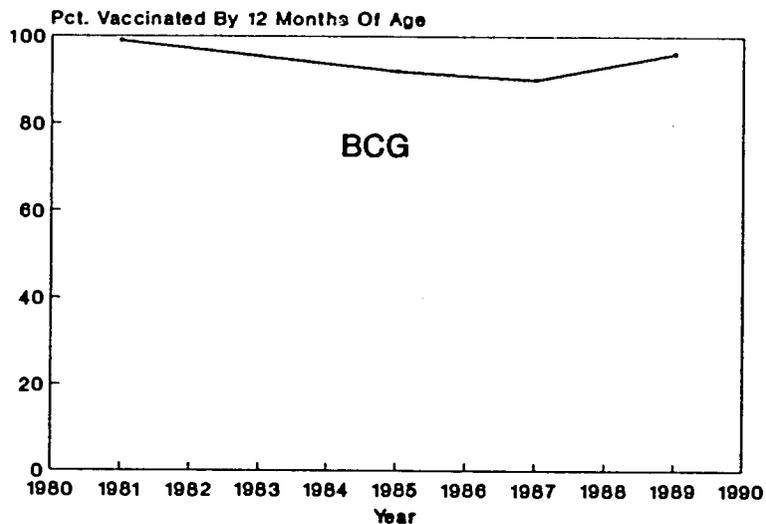
GAMBIA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 835,000 | 1989 | A |
| Infant Mortality Rate | 140/1000 | 1989 | A |
| Life Expectancy At Birth | 44 Yrs | 1989 | A |
| Children Under Age 1 | 35,000 | 1989 | A |
| Annual Infant Deaths | 5,000 | 1989 | A |
| Total Fertility Rate | 6.3 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 96% | 1989 | B |
| DPT III | 83% | 1989 | B |
| Measles | 81% | 1989 | B |
| Polio III | 79% | 1989 | B |
| Tetanus II+ | 88% | 1989 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 60% | 1988 | C |
| ORT Use Rate | 39% | 1988 | C |
| Contraceptive Prevalence (Modern) | 1% | 1977 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

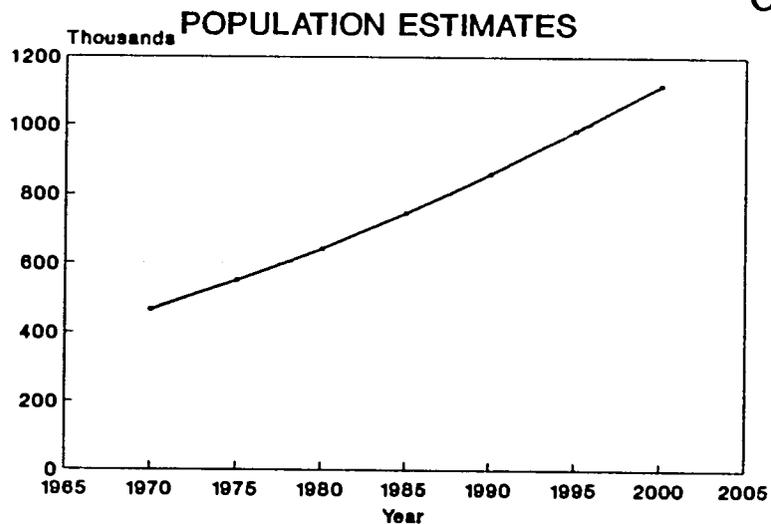
VACCINATION COVERAGE RATES IN GAMBIA



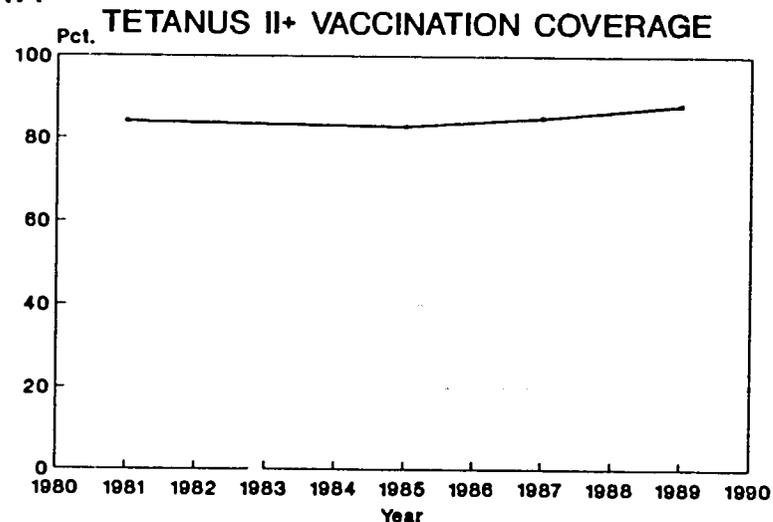
SOURCE: WHO, Annual Reports of the EPI Programme

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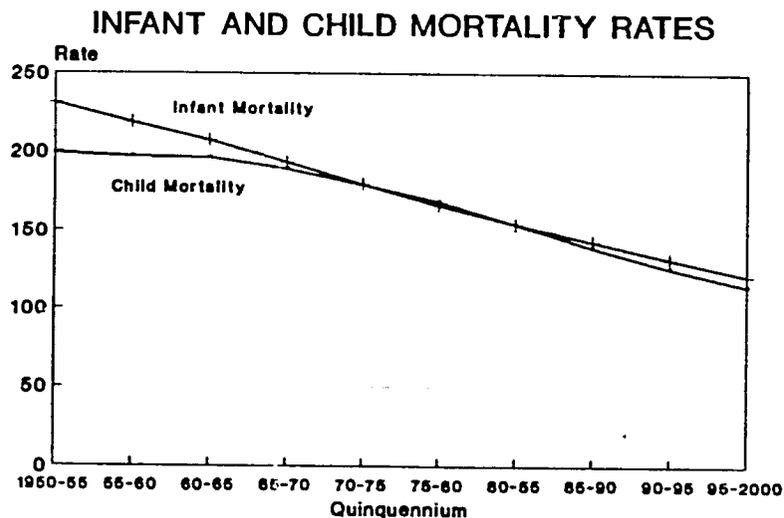
GAMBIA



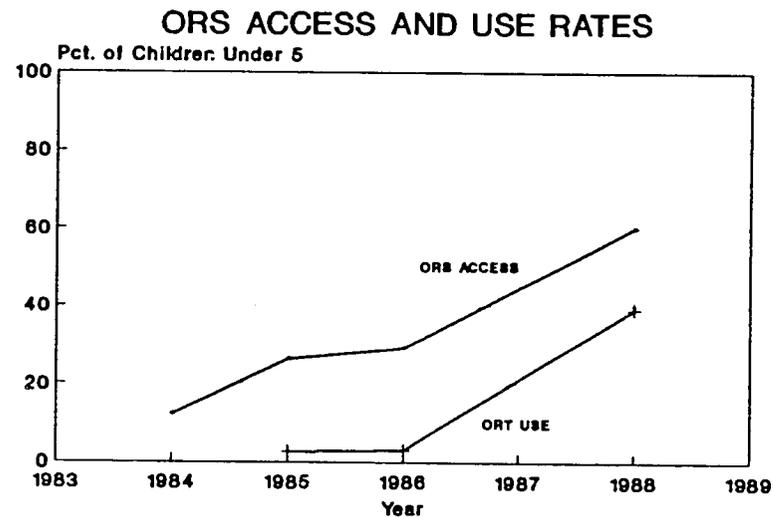
SOURCE: United Nations,
World Population Prospects, 1988



SOURCE: World Health Organization
Annual Reports of the EPI Programme



SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

GHANA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 14,566,000 | 1989 | A |
| Infant Mortality Rate | 87/1000 | 1989 | A |
| Life Expectancy At Birth | 55 Yrs | 1989 | A |
| Children Under Age 1 | 600,000 | 1989 | A |
| Annual Infant Deaths | 56,000 | 1989 | A |
| Total Fertility Rate | 6.3 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 60% | 1989 | B |
| DPT III | 40% | 1989 | B |
| Measles | 39% | 1989 | b |
| Polio III | 37% | 1989 | B |
| Tetanus II+ | 54% | 1989 | B |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 38% | 1988 | C |
| ORT Use Rate | 21% | 1988 | C |
| Contraceptive Prevalence | 4.7% | 1988 | D |
| Adequate Nutritional Status | 66.6% | 1988 | D |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 2% | 1988 | D |
| b) Introduction Of Solids | 45% | 1988 | D |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

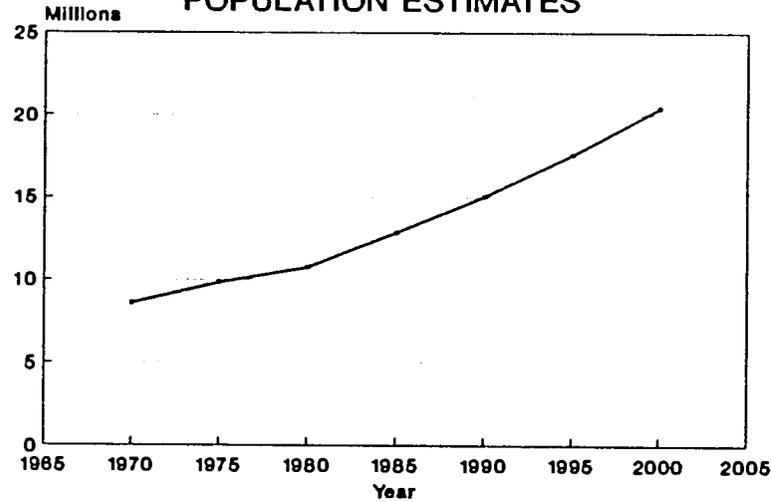
B Ministry of Health, Epidemiology Division, Primary Health Care/Expanded Programme on Immunization Review, February, 1989 as cited in the FY 1989 Mission Response Form.

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

D Demographic and Health Survey, 1988, Ghana Statistical Service and Demographic and Health Surveys, Institute for Resource Development/Macro Systems, Inc., September, 1989.

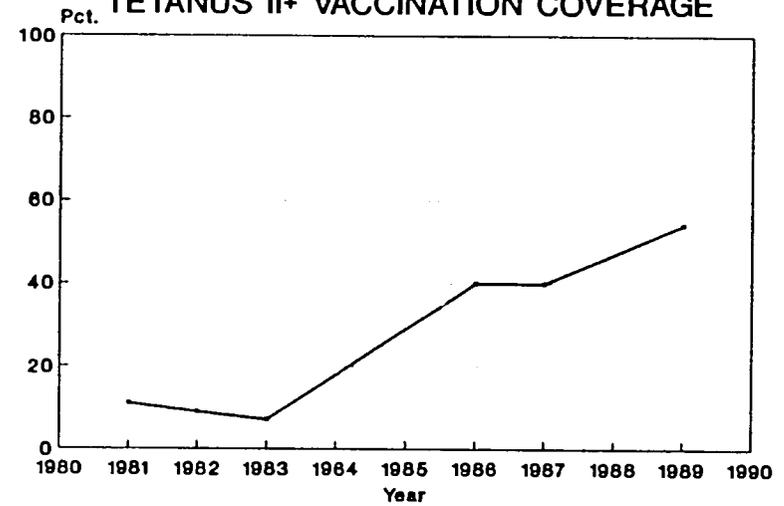
GHANA

POPULATION ESTIMATES



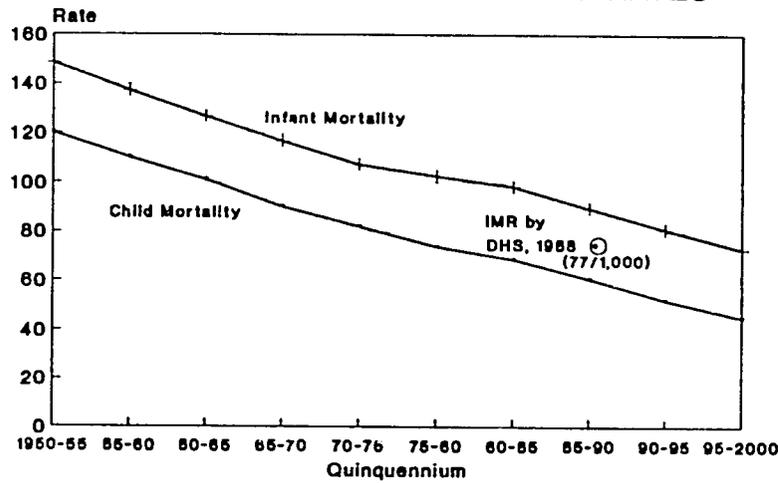
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



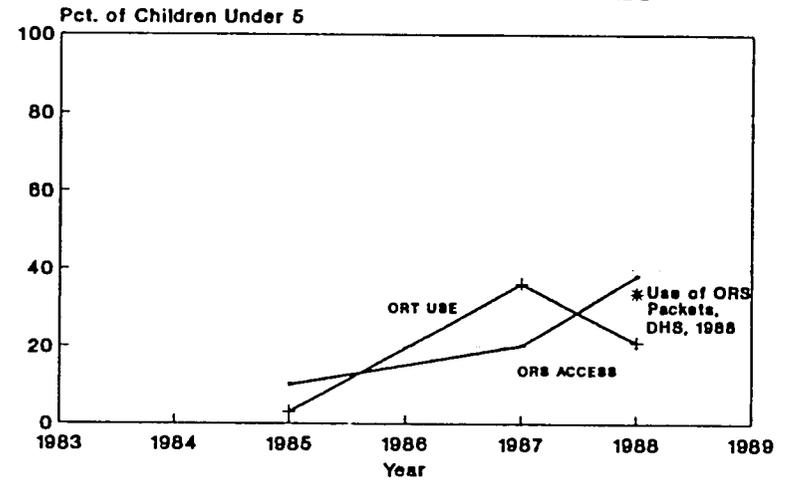
SOURCE: WHO, Annual EPI Reports (1989: PHC/EPI Review, 2/89)

INFANT AND CHILD MORTALITY RATES



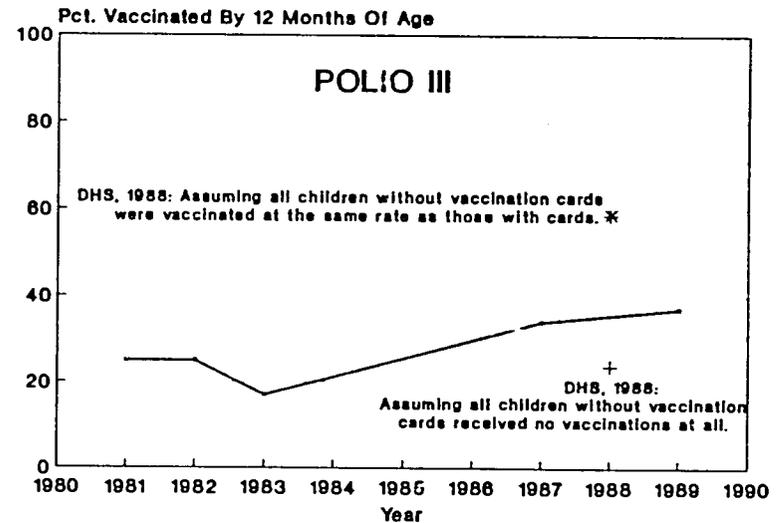
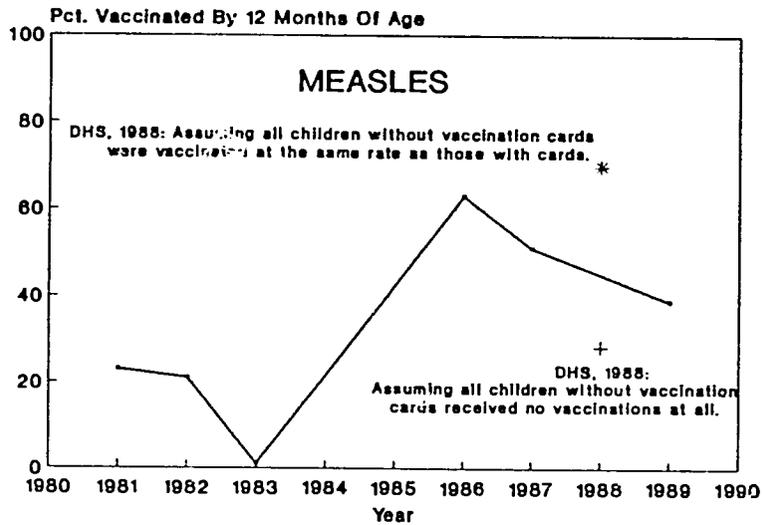
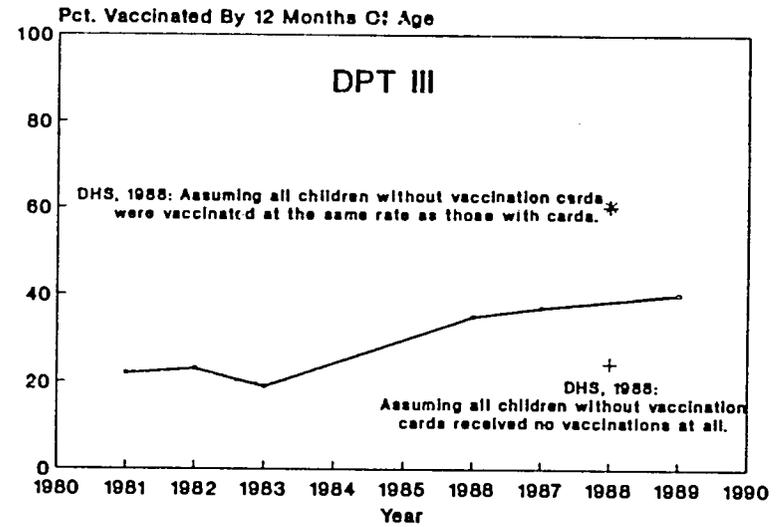
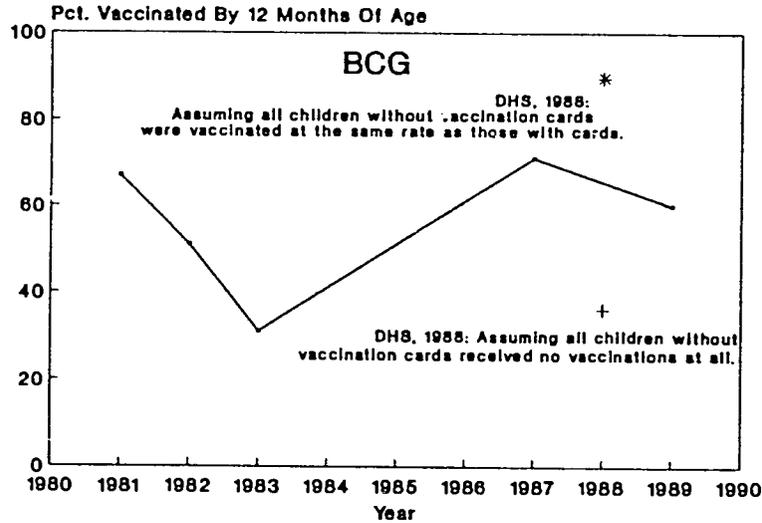
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN GHANA



SOURCE: WHO, Annual EPI Reports/1989: PHC/EPI Review, 2/89

CIHI, ISTI; 3/90

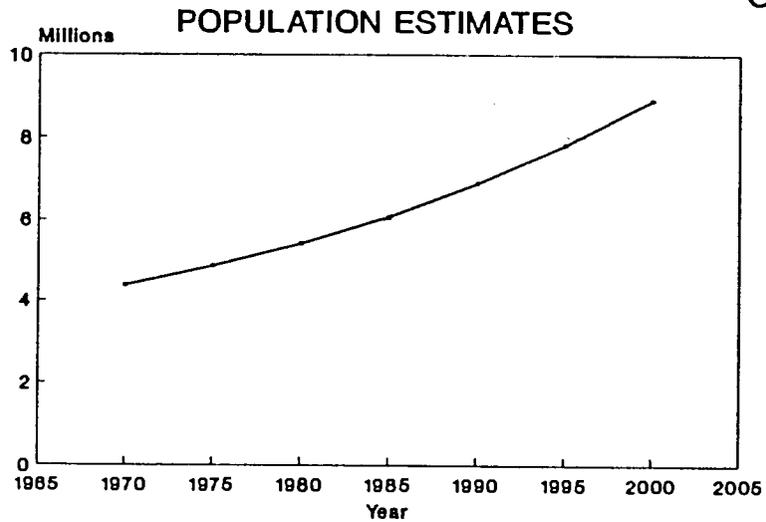
GUINEA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

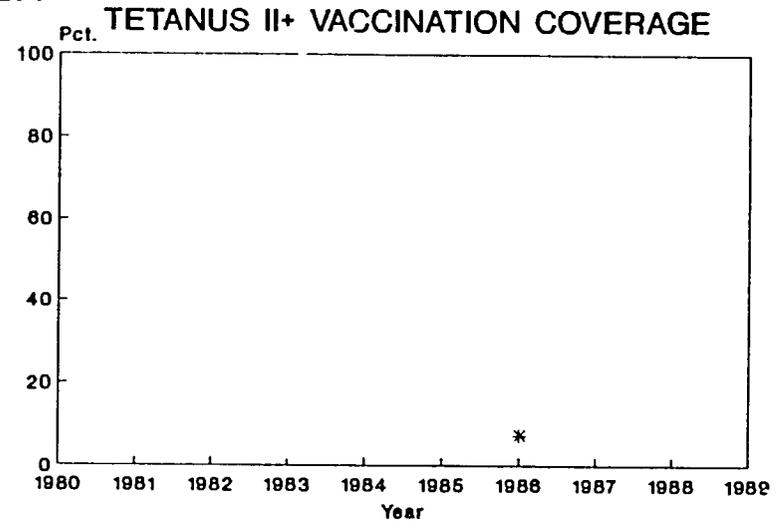
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 6,540,000 | 1989 | A |
| Infant Mortality Rate | 144/1000 | 1989 | A |
| Life Expectancy At Birth | 43 Yrs | 1989 | A |
| Children Under Age 1 | 272,000 | 1989 | A |
| Annual Infant Deaths | 43,000 | 1989 | A |
| Total Fertility Rate | 6.2 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 6% | 1986 | B |
| DPT III | 7% | 1986 | B |
| Measles | 11% | 1986 | B |
| Polio III | 1% | 1986 | B |
| Tetanus II+ | 7% | 1986 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 37% | 1988 | C |
| ORT Use Rate | 20% | 1988 | C |
| Contraceptive Prevalence (Modern) | 1% | 1977 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

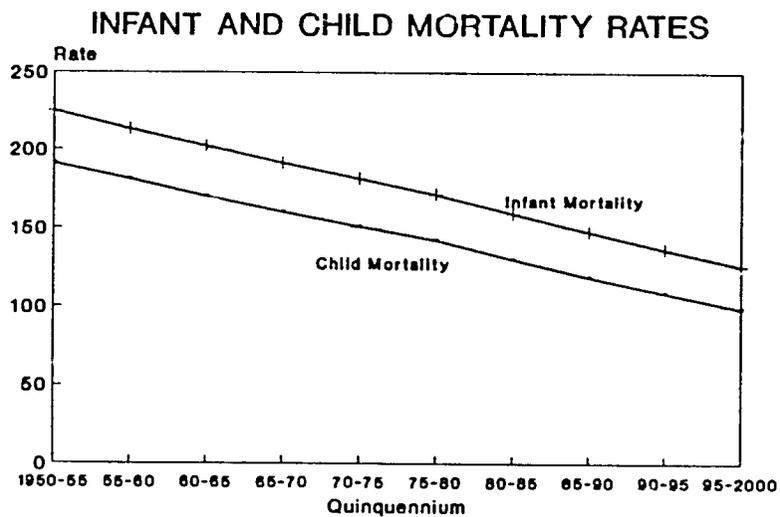
GUINEA



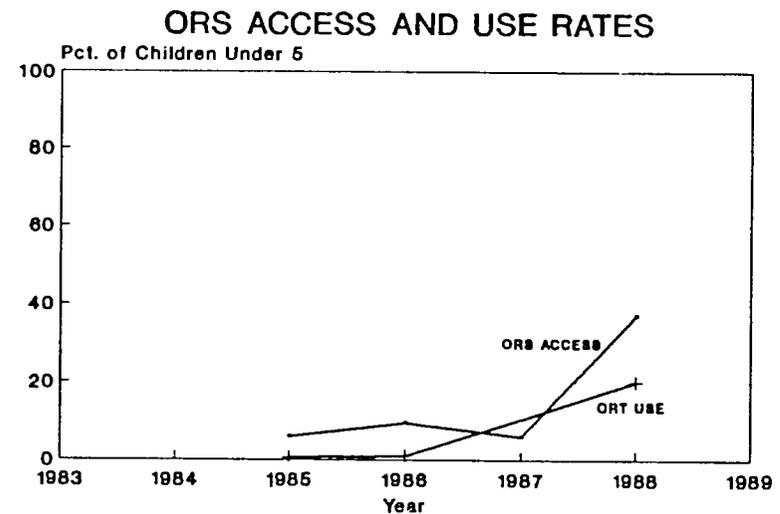
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

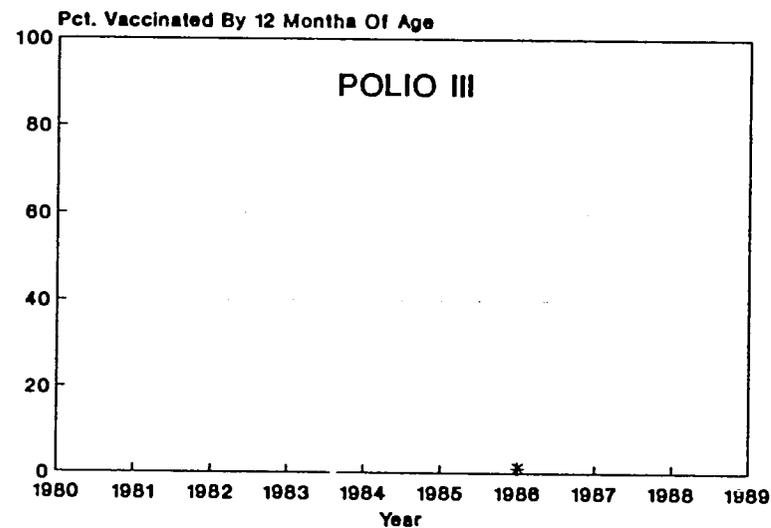
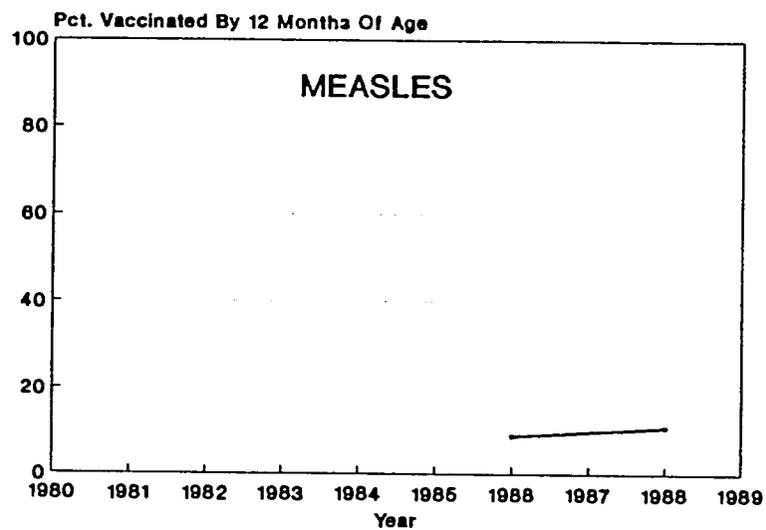
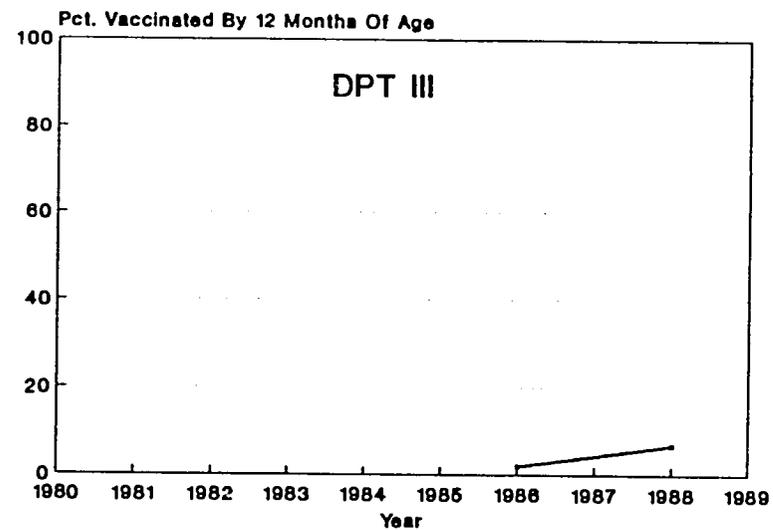
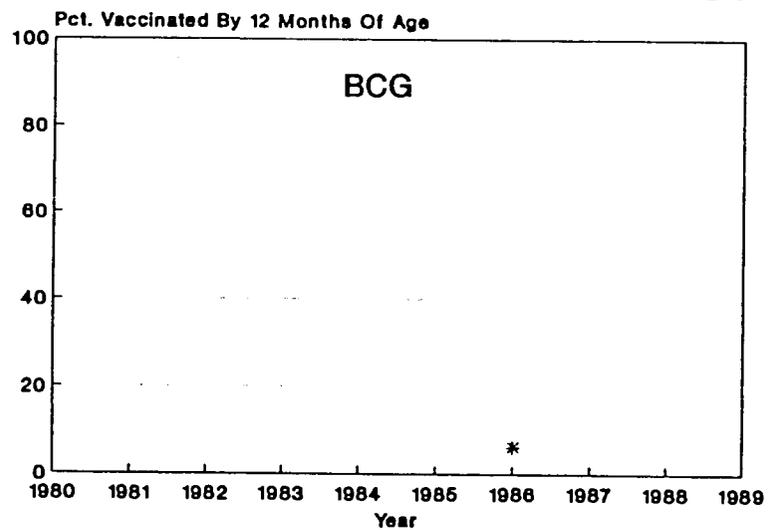


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN GUINEA



SOURCE: WHO, Annual EPI Reports/1988: ASCI-CCCD Annual Rep't

CIHI, ISTI; 3/90

KENYA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 24,097,000 | 1989 | A |
| Infant Mortality Rate | 70/1000 | 1989 | A |
| Life Expectancy At Birth | 59 Yrs | 1989 | A |
| Children Under Age 1 | 1,214,000 | 1989 | A |
| Annual Infant Deaths | 89,000 | 1989 | A |
| Total Fertility Rate | 6.7 | 1989 | B |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 92.8% | 1989 | B |
| DPT III | 81.5% | 1989 | B |
| Measles | 72.1% | 1989 | B |
| Polio III | 82.2% | 1989 | B |
| Tetanus II+ | 72.0% | 1987 | C |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 74% | 1988 | D |
| ORT Use Rate | 63% | 1989 | B |
| Contraceptive Prevalence (Modern) | 18% | 1989 | B |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | 53% | 1989 | B |
| a) Exclusive Breastfeeding | 21% | | |
| b) Introduction Of Solids | 71% | | |
| Median Duration Of Breastfeeding | 20.0 Mos | 1989 | B |

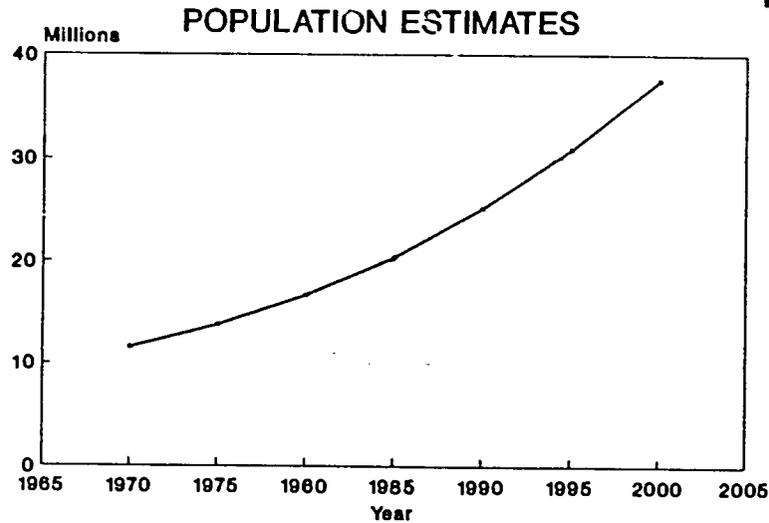
A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

B Demographic and Health Survey, 1989, National Council for Population and Development, Ministry of Home Affairs and National Heritage and Demographic and Health Surveys, Institute for Resource Development/Macro Systems, Inc, October, 1989. (The method of computation of vaccination coverage rates is based on an analysis of the comparability of mother's recall to actual data recorded on cards in seven countries. The "correction factor" for mother's recall so determined was applied to those children without cards whose mothers remembered their children as having received at least one vaccination. These figures do not appear on the accompanying graphs.)

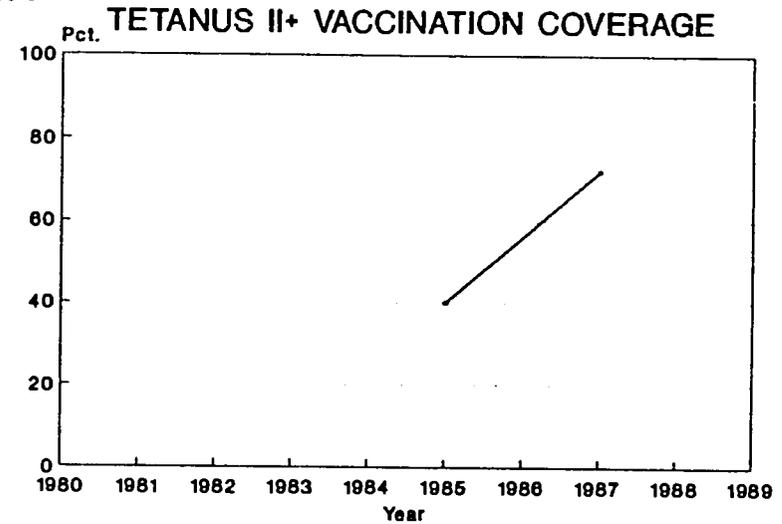
C Data originally reported in Immunization Coverage in Kenya, 1987, a publication of the Ministry of Health, Kenya. The rate shown correctly interprets the original table.

D World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

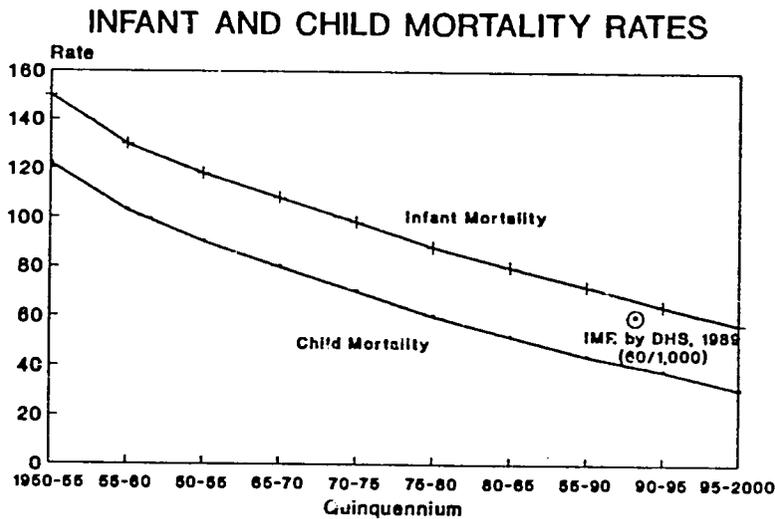
KENYA



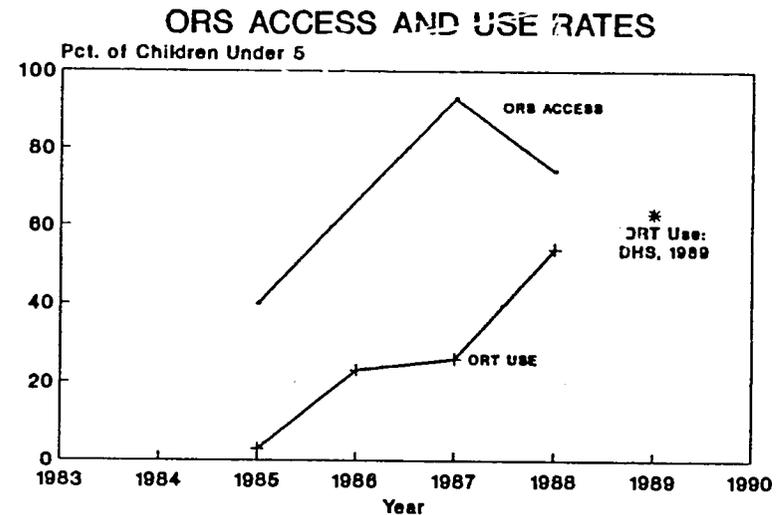
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: WHO, Annual EPI Reports (1989: PHC/EPI Review, 2/89)

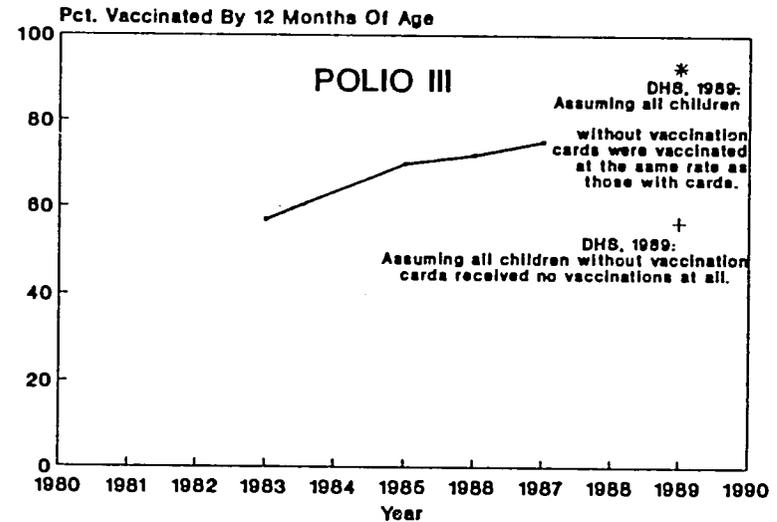
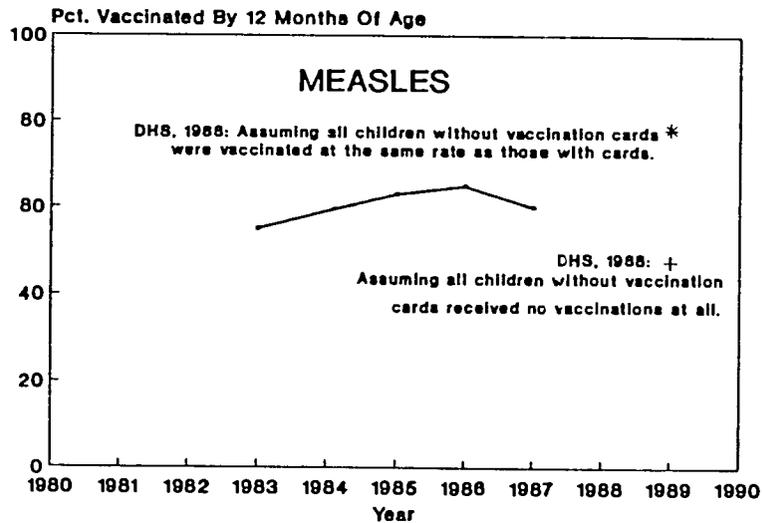
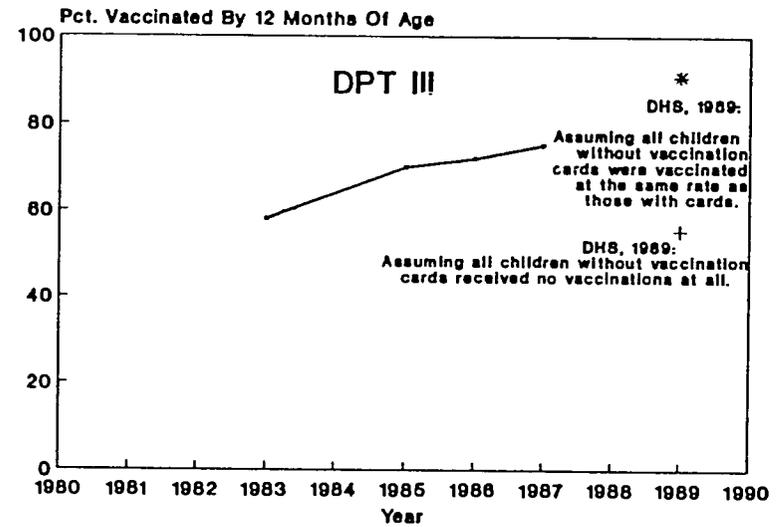
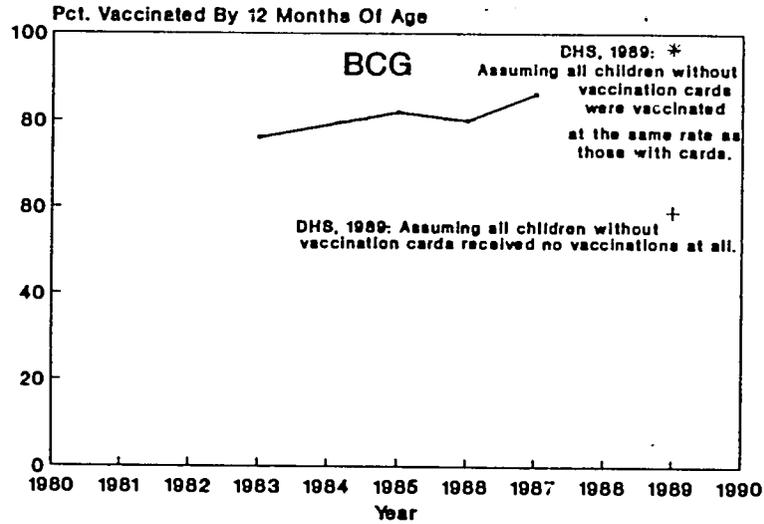


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN KENYA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

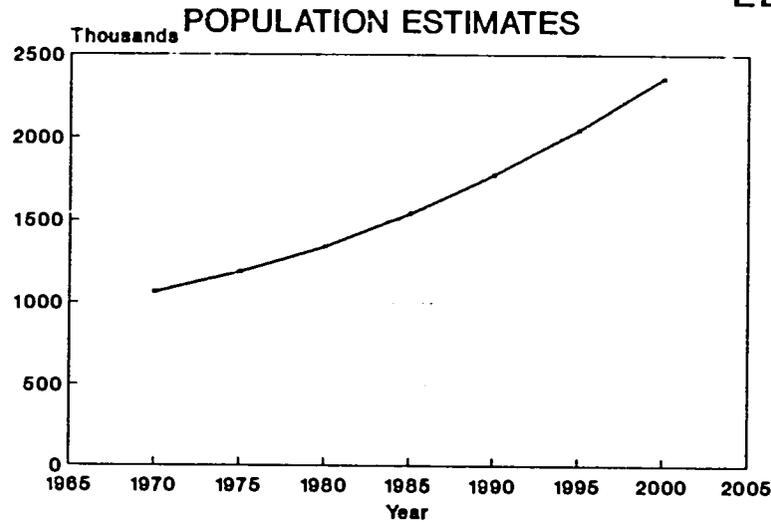
LESOTHO

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

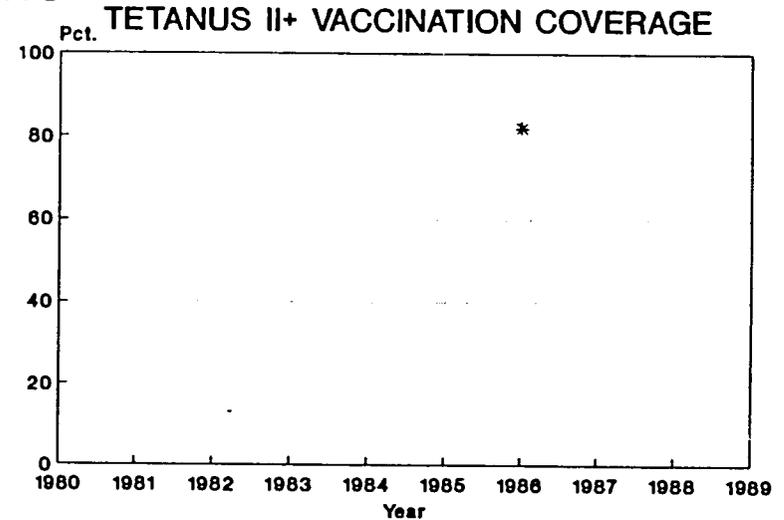
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 1,724,000 | 1989 | A |
| Infant Mortality Rate | 97/1000 | 1989 | A |
| Life Expectancy At Birth | 57 Yrs | 1989 | A |
| Children Under Age 1 | 65,000 | 1989 | A |
| Annual Infant Deaths | 7,000 | 1989 | A |
| Total Fertility Rate | 5.7 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 84% | 1988 | B |
| DPT III | 77% | 1988 | B |
| Measles | 79% | 1988 | B |
| Polio III | 77% | 1988 | B |
| Tetanus II+ | 82% | 1986 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 50% | 1988 | C |
| ORT Use Rate | 68% | 1987 | C |
| Contraceptive Prevalence (Modern) | 4% | 1977 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D 1977 World Fertility Survey as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

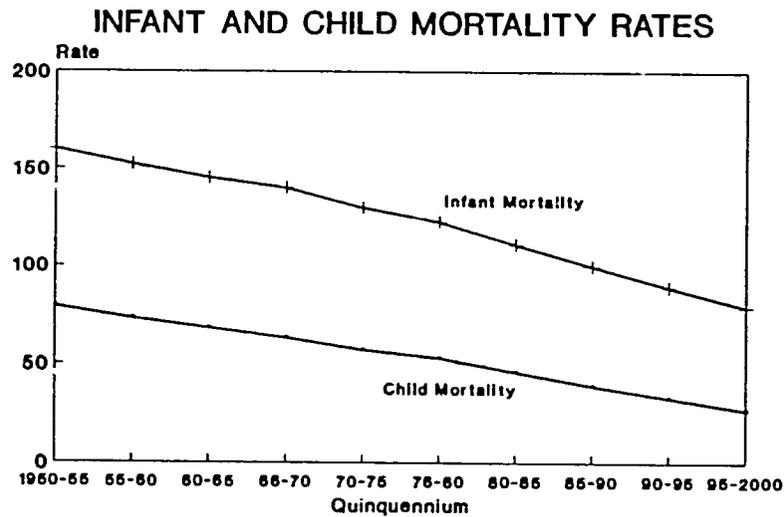
LESOTHO



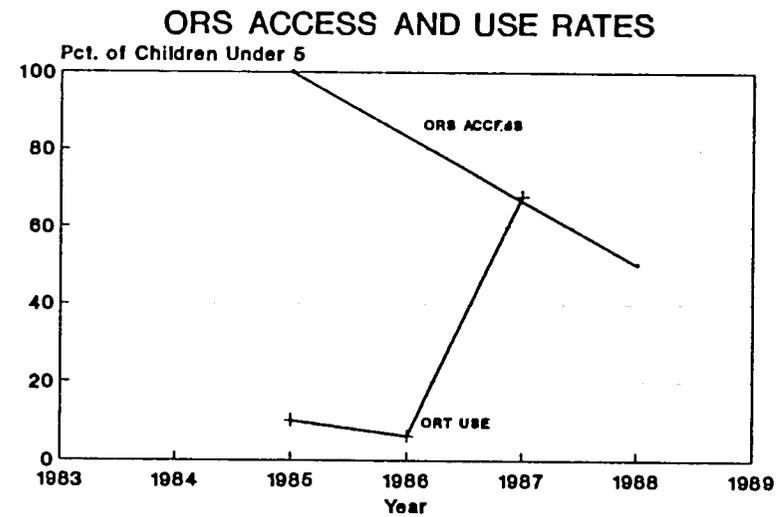
SOURCE: United Nations,
World Population Prospects, 1988



SOURCE: World Health Organization
Annual Reports of the EPI Programme

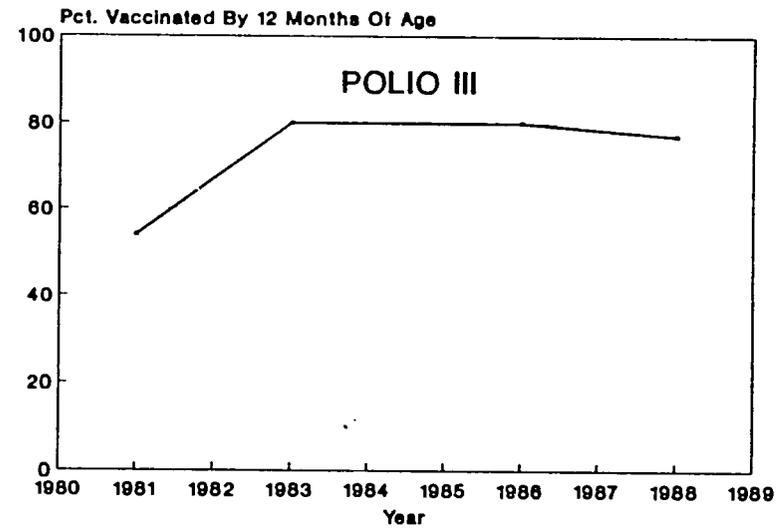
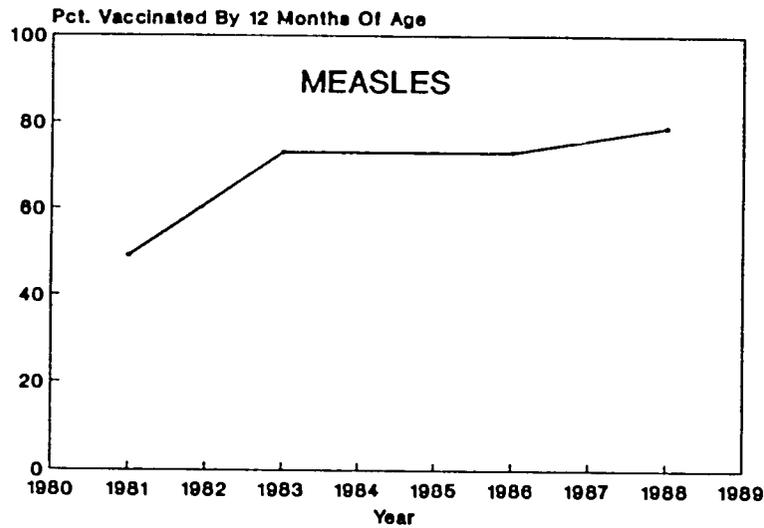
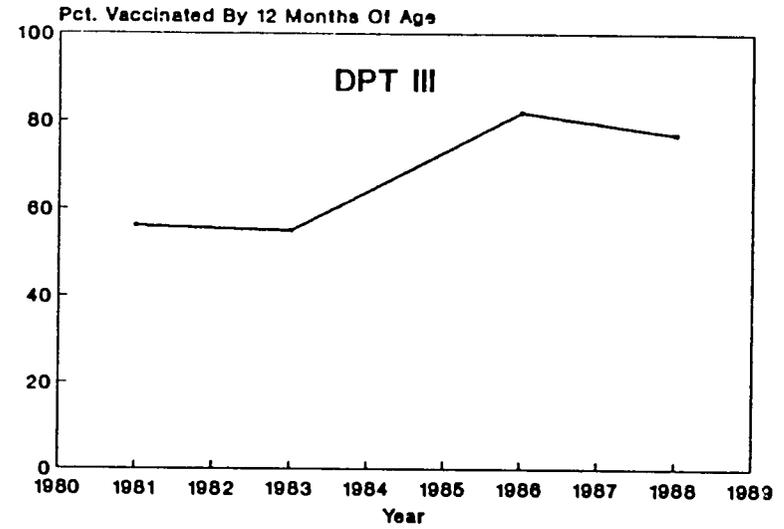
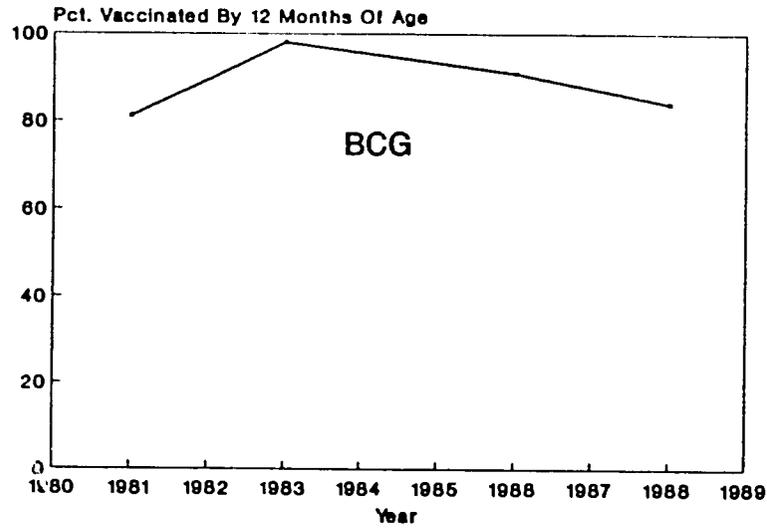


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN LESOTHO



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

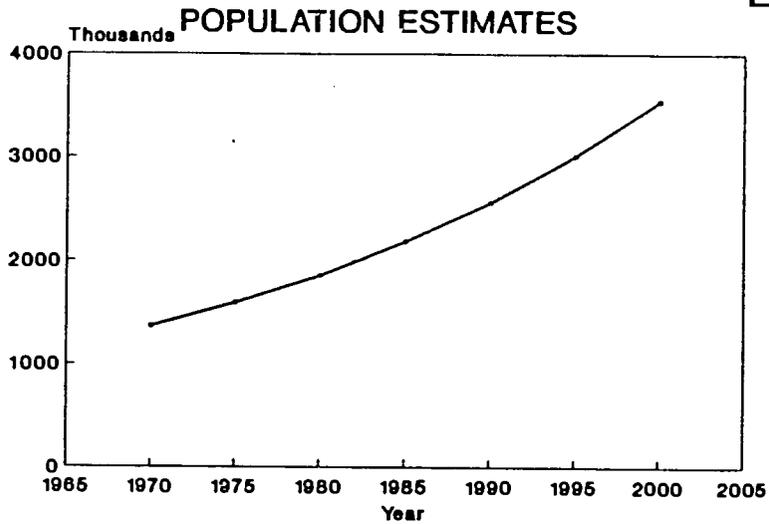
LIBERIA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

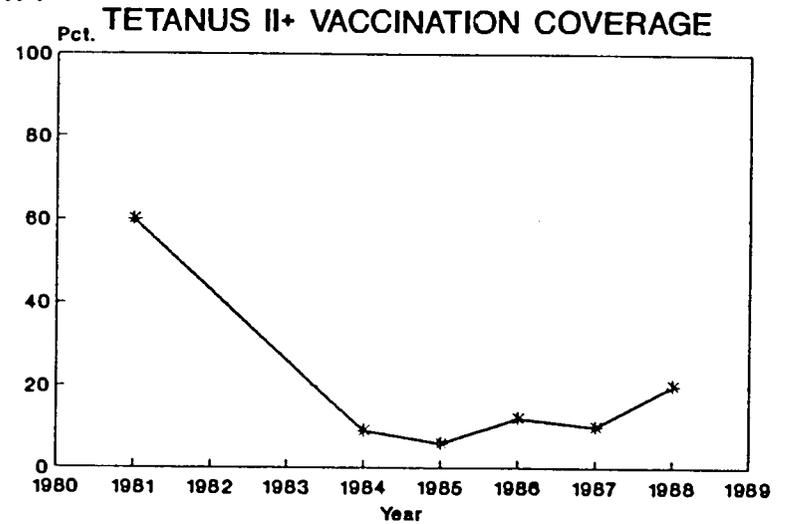
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 2,473,000 | 1989 | A |
| Infant Mortality Rate | 85/1000 | 1989 | A |
| Life Expectancy At Birth | 55 Yrs | 1989 | A |
| Children Under Age 1 | 104,000 | 1989 | A |
| Annual Infant Deaths | 9,000 | 1989 | A |
| Total Fertility Rate | 6.5 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 62% | 1988 | B |
| DPT III | 28% | 1988 | B |
| Measles | 55% | 1988 | B |
| Polio III | 28% | 1988 | B |
| Tetanus II+ | 20% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 22% | 1988 | C |
| ORT Use Rate | 9% | 1988 | C |
| Contraceptive Prevalence (Modern) | 5.5% | 1986 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 14% | 1986 | D |
| b) Introduction Of Solids | 50% | 1986 | D |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Demographic and Health Survey: 1986, Bureau of Statistics, Ministry of Planning and Economic Affairs and Demographic and Health Surveys, Institute for Resource Development/Westinghouse, February, 1988.

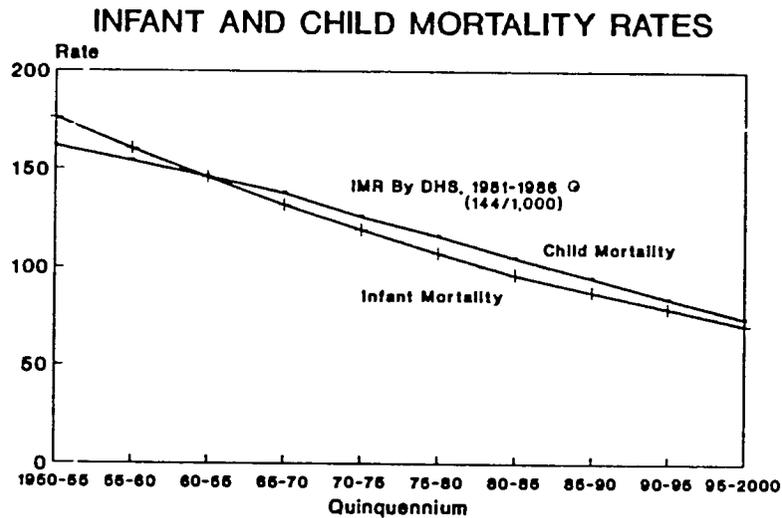
LIBERIA



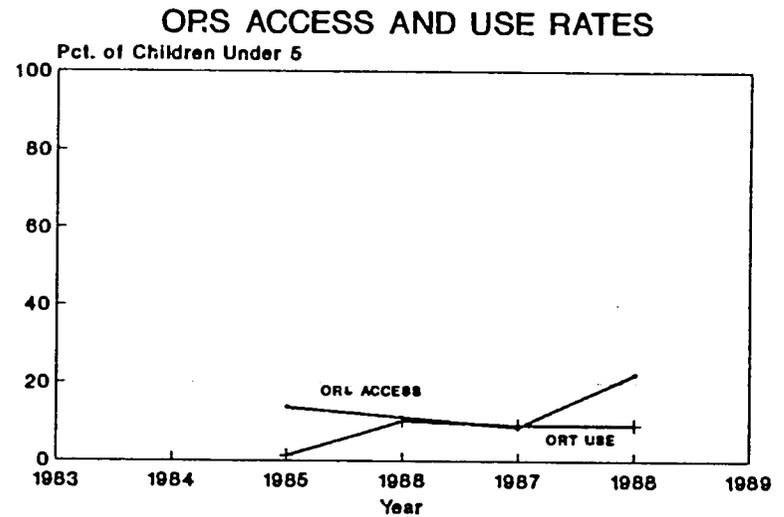
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

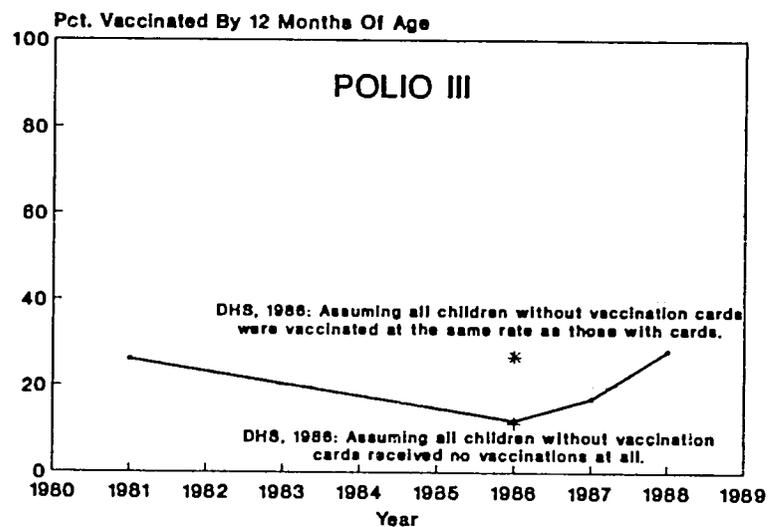
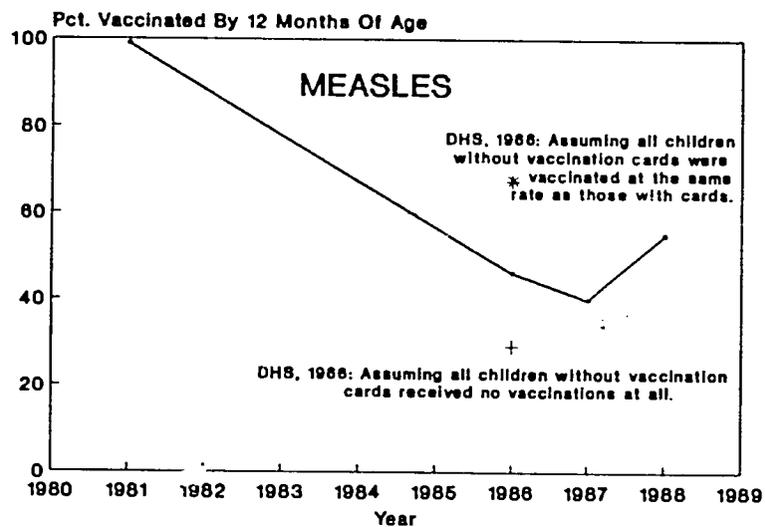
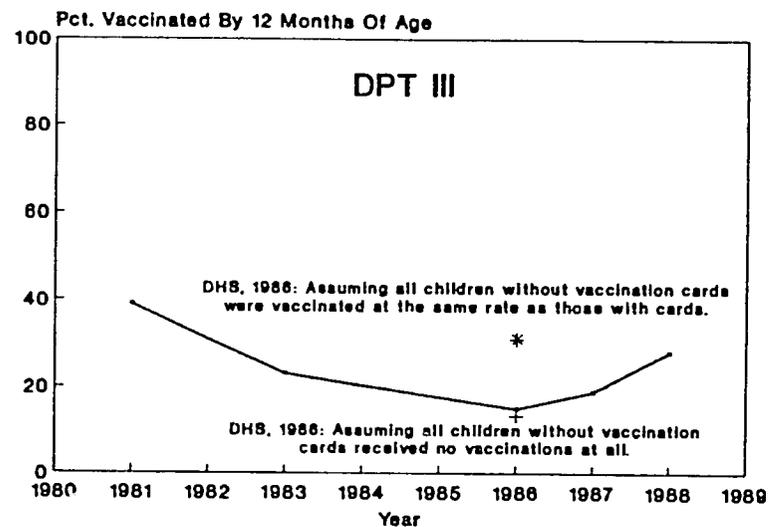
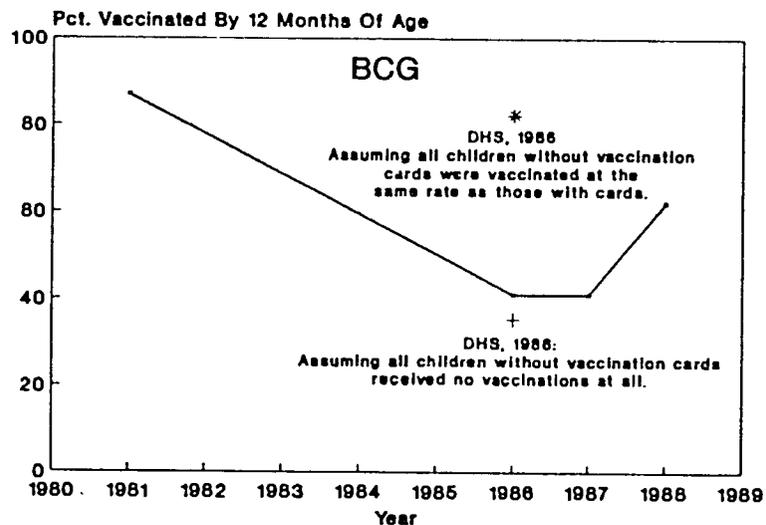


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the CDD Programms (1988 Use Rate: DHS)

VACCINATION COVERAGE RATES IN LIBERIA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

MALAWI

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 8,151,000 | 1989 | A |
| Infant Mortality Rate | 147/1000 | 1989 | A |
| Life Expectancy At Birth | 48 Yrs | 1989 | A |
| Children Under Age 1 | 384,000 | 1989 | A |
| Annual Infant Deaths | 63,000 | 1989 | A |
| Total Fertility Rate | 7.0 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 80% | 1988 | B |
| DPT III | 72% | 1988 | B |
| Measles | 71% | 1988 | B |
| Polio III | 72% | 1988 | B |
| Tetanus II+ | 63% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 56% | 1988 | C |
| ORT Use Rate | 14% | 1988 | C |
| Contraceptive Prevalence | 1% | 1984 | D |
| Adequate Nutritional Status | 70.3% | 1981 | E |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

B MOH/UNICEF/WHO/Rotary International, National Evaluation Of The Expanded Programme On Immunization, August, 1988. All values shown are based on data available from cards and mothers' recall.

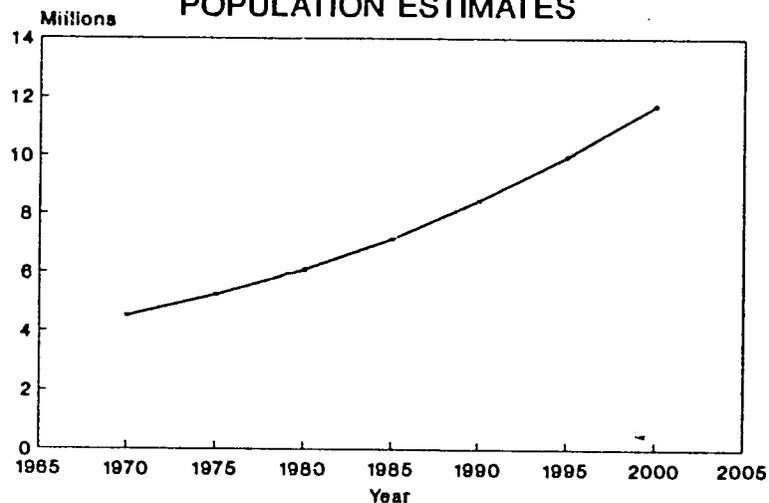
C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

D Unpublished data from 1984 Family Formation Survey as cited in A.I.D. Mission Cable/00015.

E "National Sample Survey of Agriculture, 1980/81", National Statistics Office, Zomba, Vol. III, 1984 as recorded in the WHO Anthropometry Data Base.

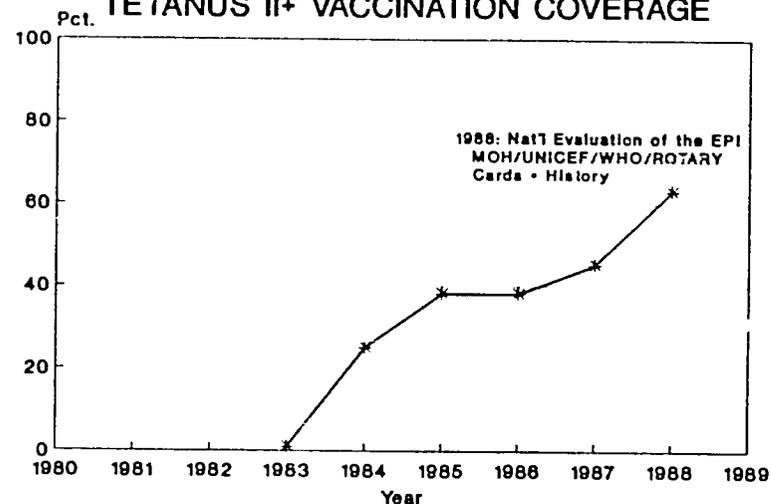
MALAWI

POPULATION ESTIMATES



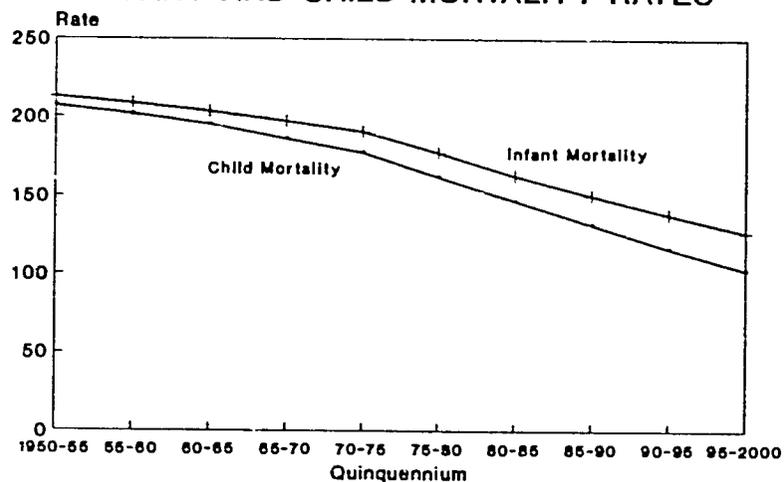
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



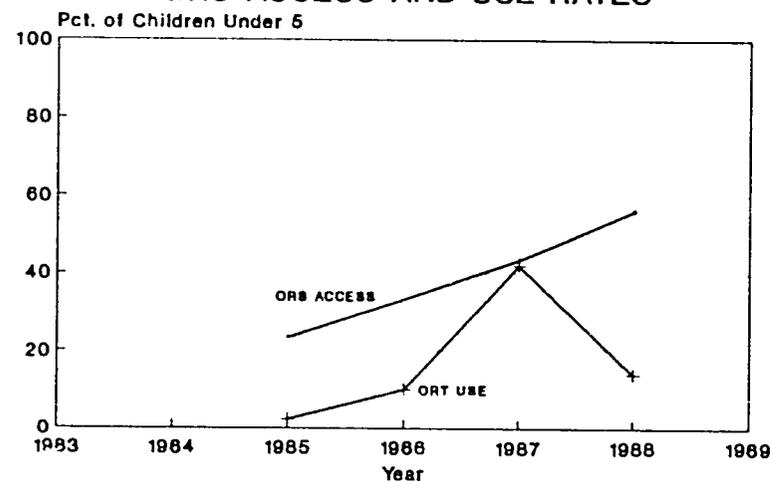
SOURCE: World Health Organization Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



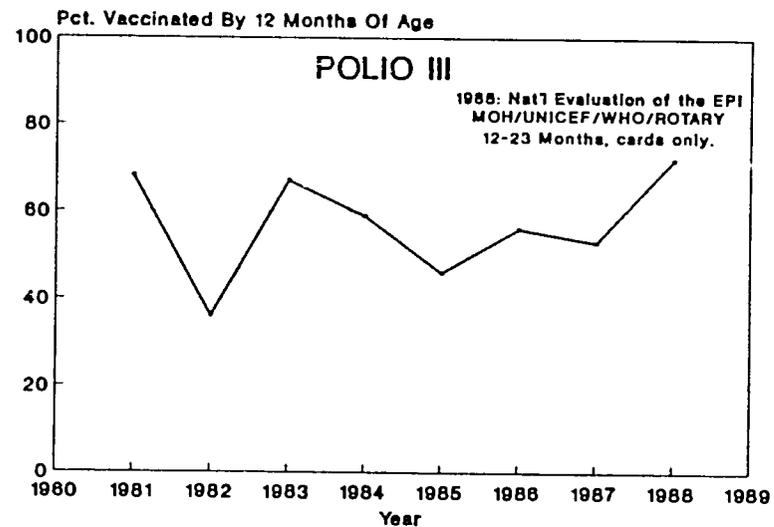
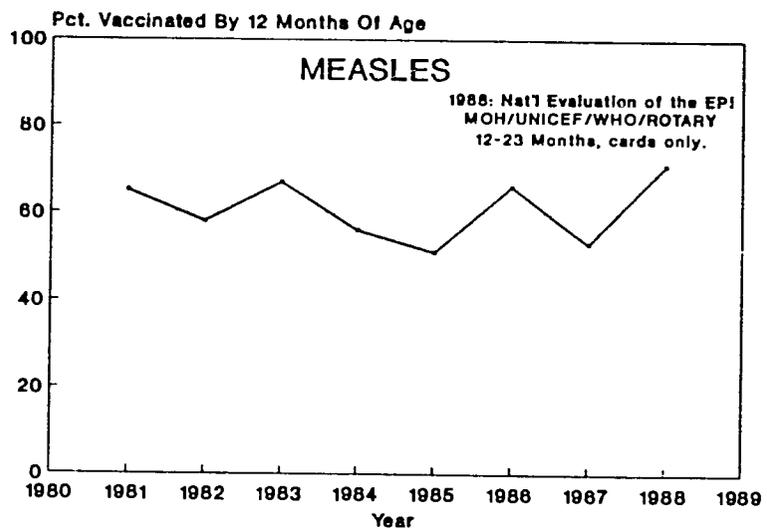
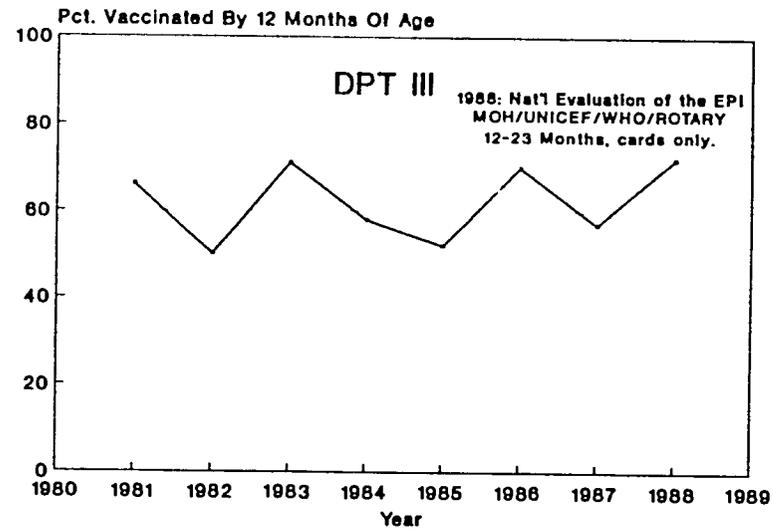
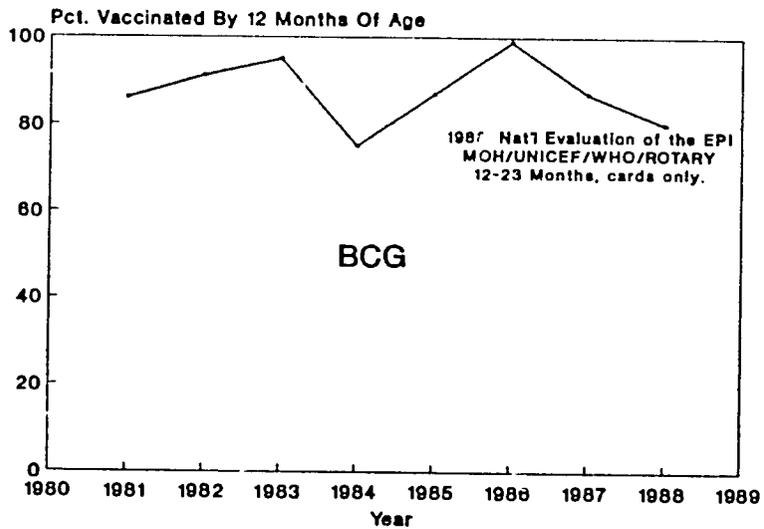
SOURCE: United Nations, 1988
 1) World Population Prospects, and
 2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN MALAWI



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

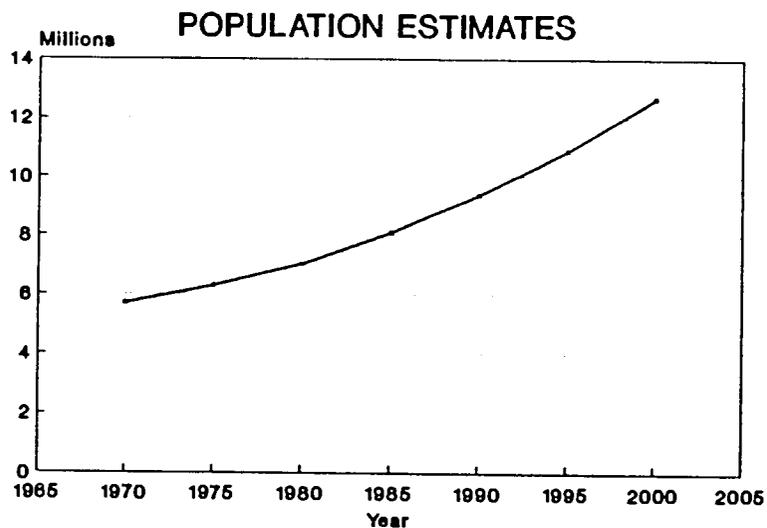
MALI

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

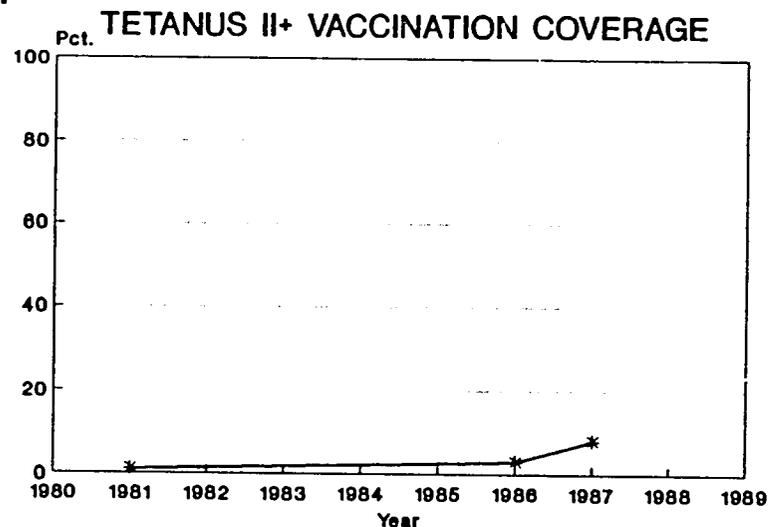
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 9,088,000 | 1989 | A |
| Infant Mortality Rate | 108/1000 | 1987 | E |
| Life Expectancy At Birth | 45 Yrs | 1989 | A |
| Children Under Age 1 | 400,000 | 1989 | A |
| Annual Infant Deaths | 75,000 | 1989 | A |
| Total Fertility Rate | 5.6 | 1987 | D |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCr | 22% | 1987 | B |
| DPT III | 6% | 1987 | B |
| Measles | 8% | 1987 | B |
| Polio III | 6% | 1987 | B |
| Tetanus II+ | 8% | 1987 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 56.5% | 1988 | C |
| ORT Use Rate | 40.6% | 1989 | D |
| Contraceptive Prevalence (Modern) | 1.2% | 1987 | E |
| Adequate Nutritional Status | 60% | 1987 | E |
| Appropriate Infant Feeding | 42% | 1987 | E |
| a) Exclusive Breastfeeding | 8% | | |
| b) Introduction Of Solids | 51% | | |
| Median Duration Of Breastfeeding | 19.2 Mos | 1987 | E |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C A.I.D. Mission Communication - Cable 00560.
- D "Connaissances, Attitudes Et Pratiques Des Mères En Matière De Thérapie De Réhydratation Par Voie Orale", a study financed by PRITECH/USAID carried out by the Programme National De Lutte Contres Les Maladies Diarrhéiques, Bamako, September, 1989. Study done in the four of seven regions of the country where educational materials had been distributed effectively.
- E Enquête Démographique et de Santé au Mali: 1987, Institute for Resource Development/Westinghouse.

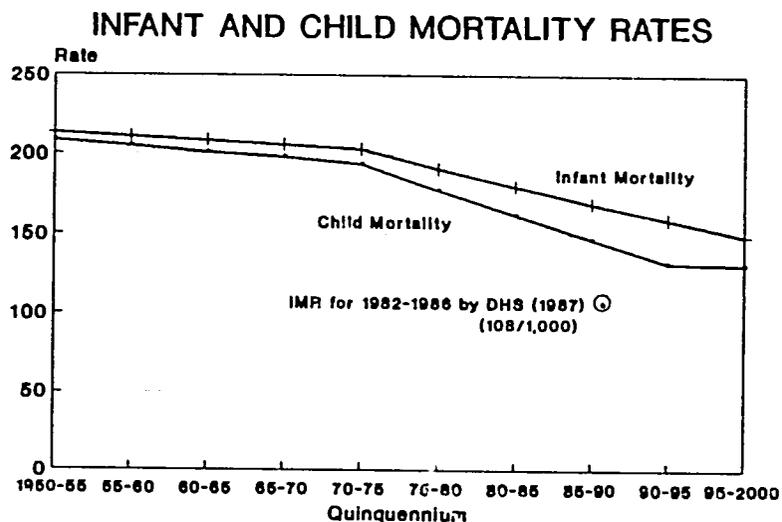
MALI



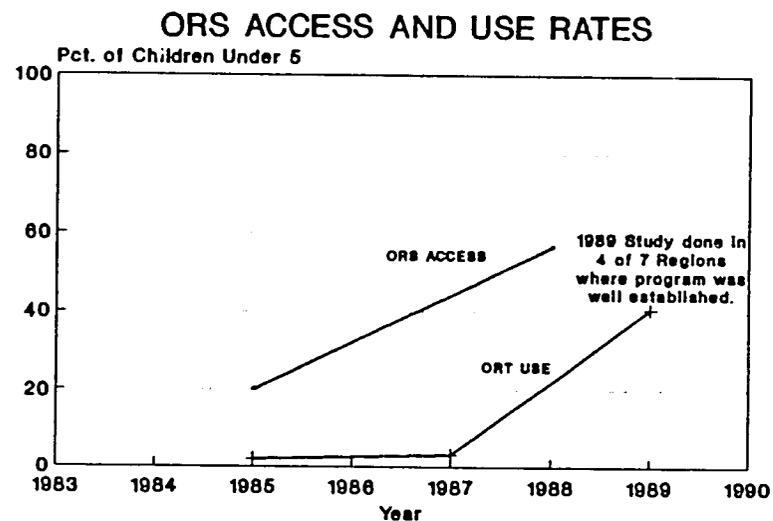
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

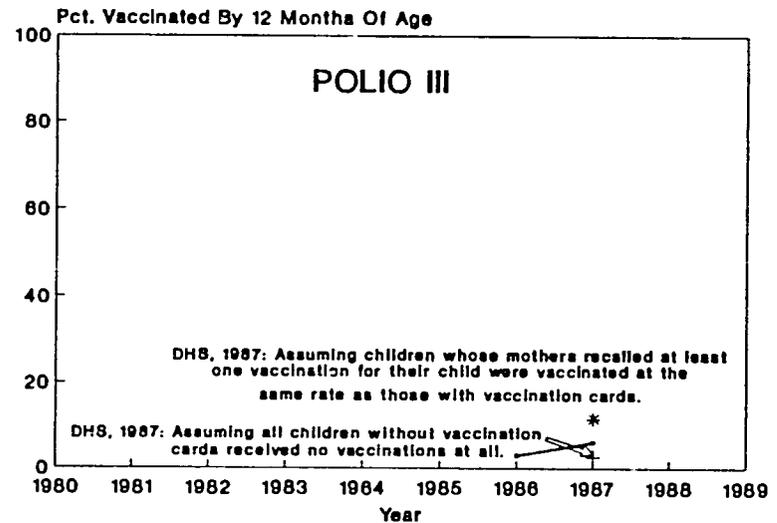
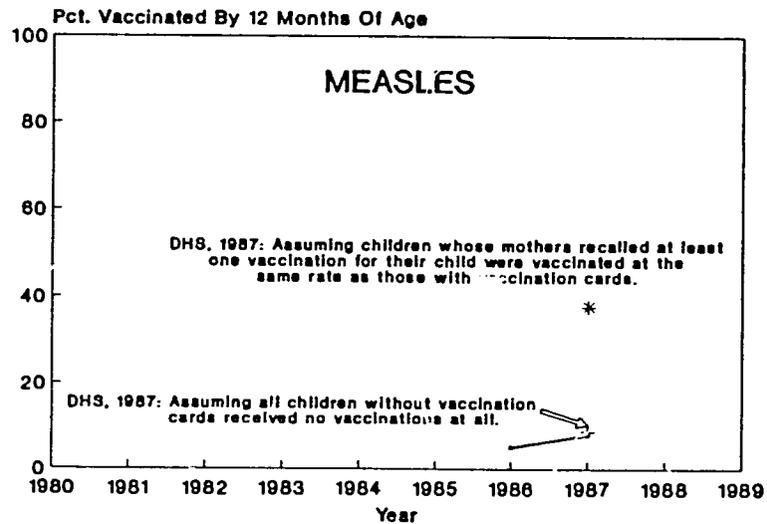
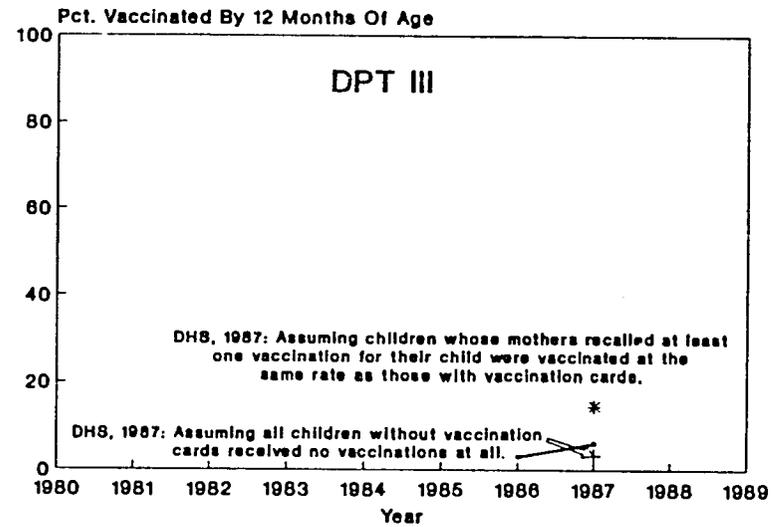
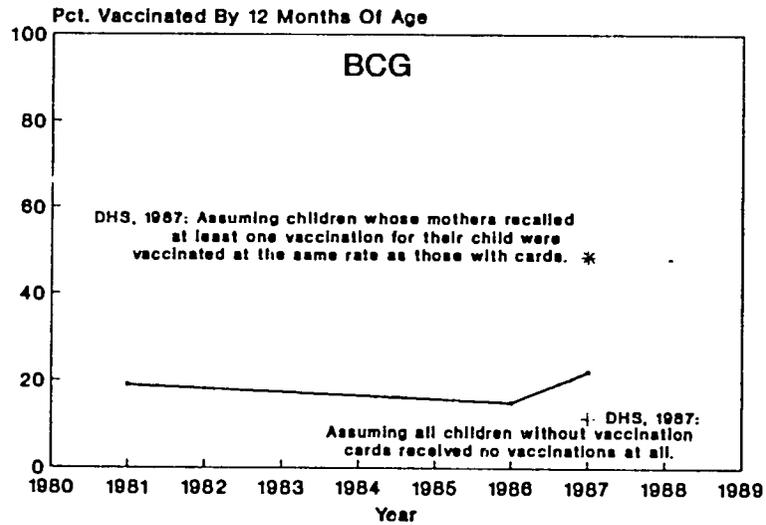


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: 1985, WHO, CDD Annual Reports; 1987, ORT Use, DHS; 1988, Access, USAID Cable/00560; 1989 Use Rate, K.A.P. Study

VACCINATION COVERAGE RATES IN MALI



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

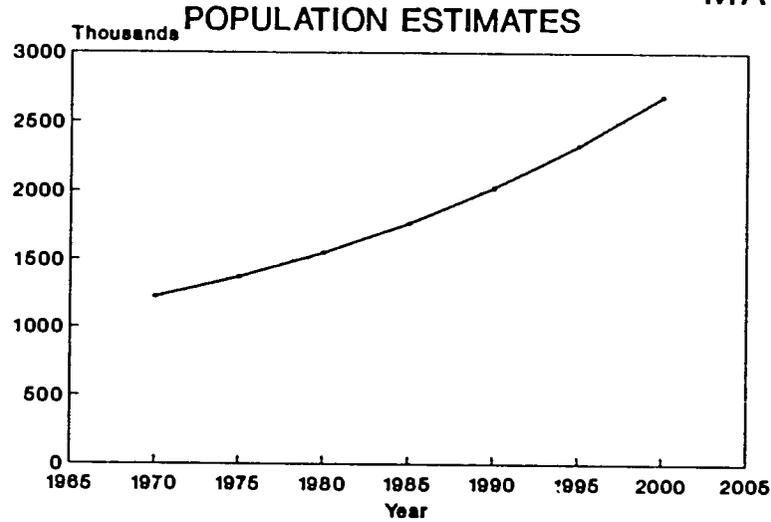
MAURITANIA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

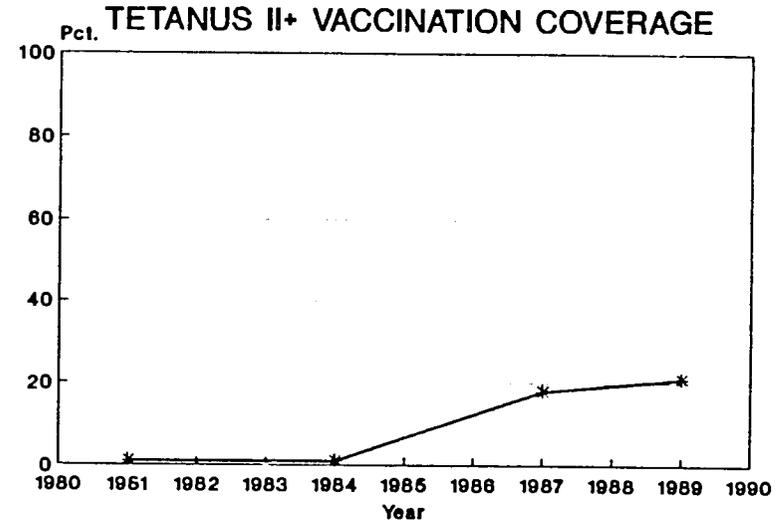
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 1,969,000 | 1989 | A |
| Infant Mortality Rate | 124/1000 | 1989 | A |
| Life Expectancy At Birth | 47 Yrs | 1989 | A |
| Children Under Age 1 | 83,000 | 1989 | A |
| Annual Infant Deaths | 11,000 | 1989 | A |
| Total Fertility Rate | 6.5 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 79% | 1989 | B |
| DPT III | 28% | 1989 | B |
| Measles | 45% | 1989 | B |
| Polio III | 28% | 1989 | B |
| Tetanus II+ | 21% | 1989 | B |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 30% | 1988 | C |
| ORT Use Rate | 22% | 1988 | C |
| Contraceptive Prevalence | 1% | 1981 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D United Nations, Population Division, World Contraceptive Use (New York, United Nations, 1987).

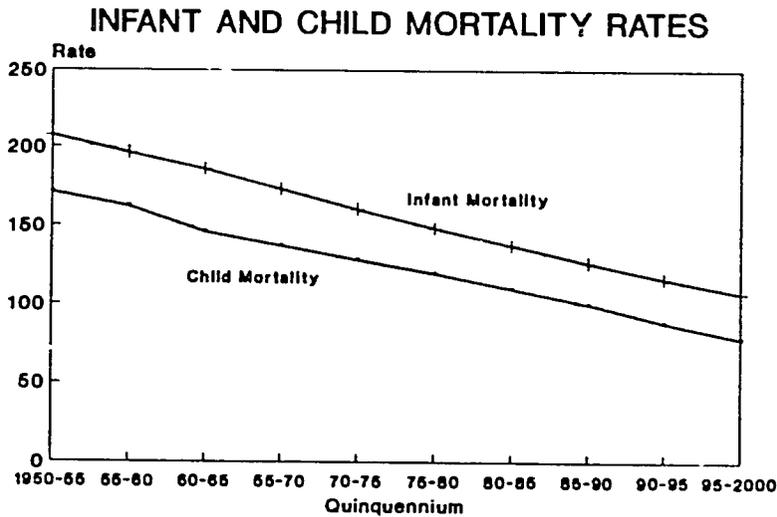
MAURITANIA



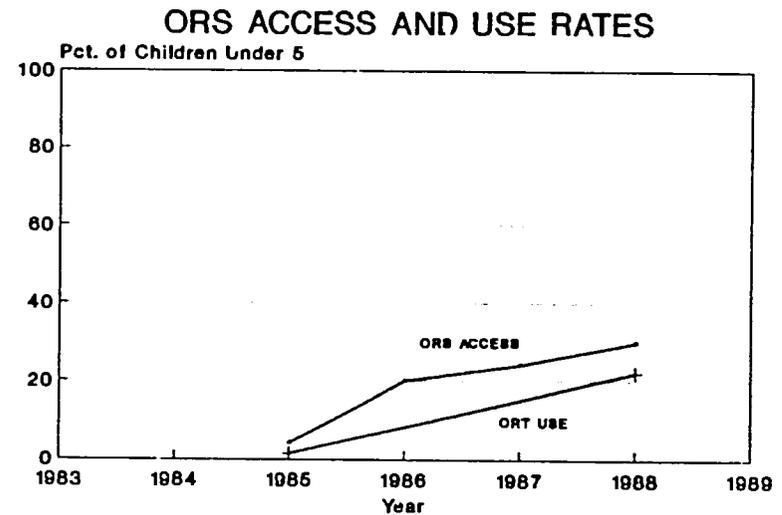
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

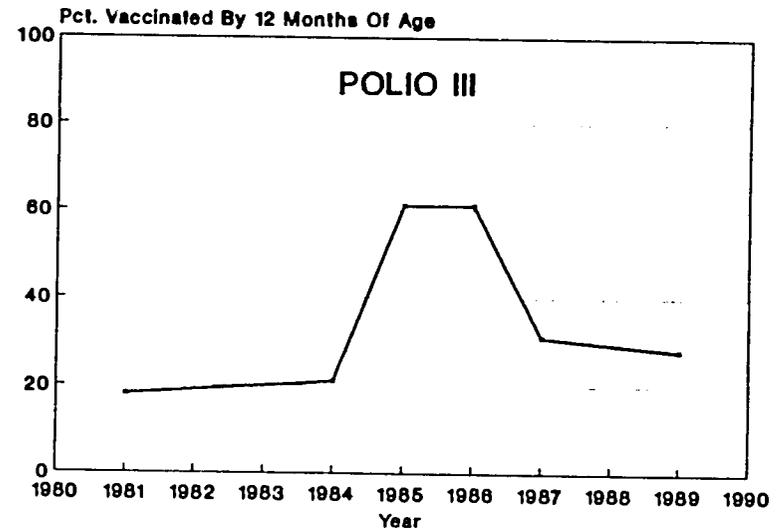
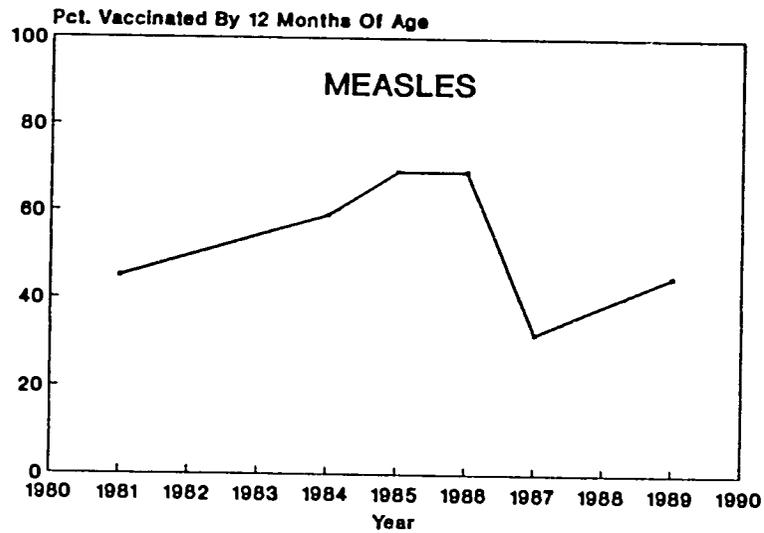
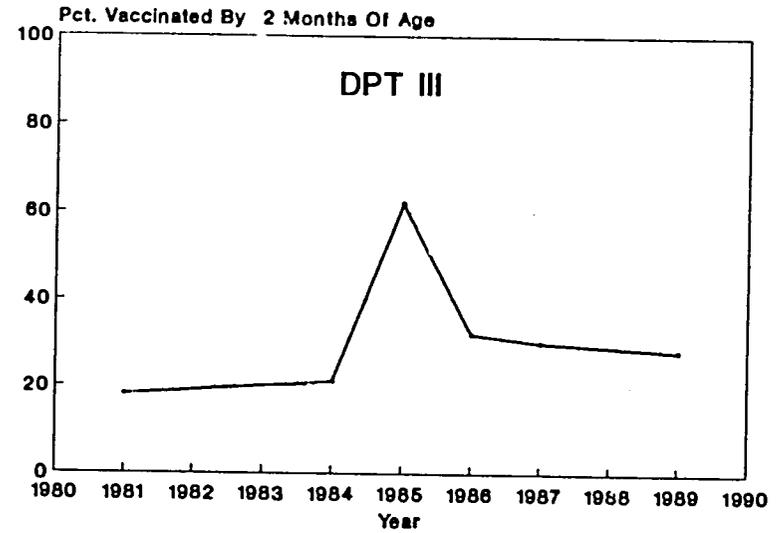
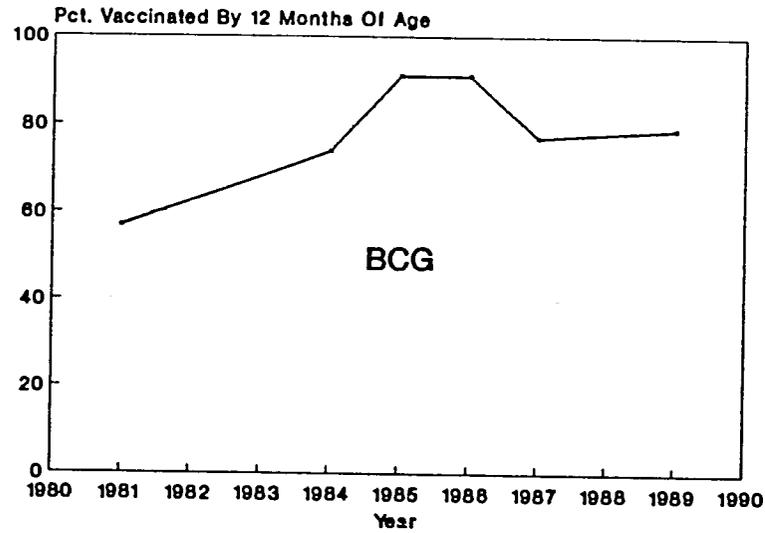


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN MAURITANIA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

MOZAMBIQUE

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 15,248,000 | 1989 | A |
| Infant Mortality Rate | 138/1000 | 1989 | A |
| Life Expectancy At Birth | 47 Yrs | 1989 | A |
| Children Under Age 1 | 615,000 | 1989 | A |
| Annual Infant Deaths | 94,000 | 1989 | A |
| Total Fertility Rate | 6.3 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 49% | 1988 | B |
| DPT III | 38% | 1988 | B |
| Measles | 44% | 1988 | B |
| Polio III | 38% | 1988 | B |
| Tetanus II+ | 19% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 40.0% | 1985 | C |
| ORT Use Rate | 13.5% | 1986 | C |
| Contraceptive Prevalence | N/A | | |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

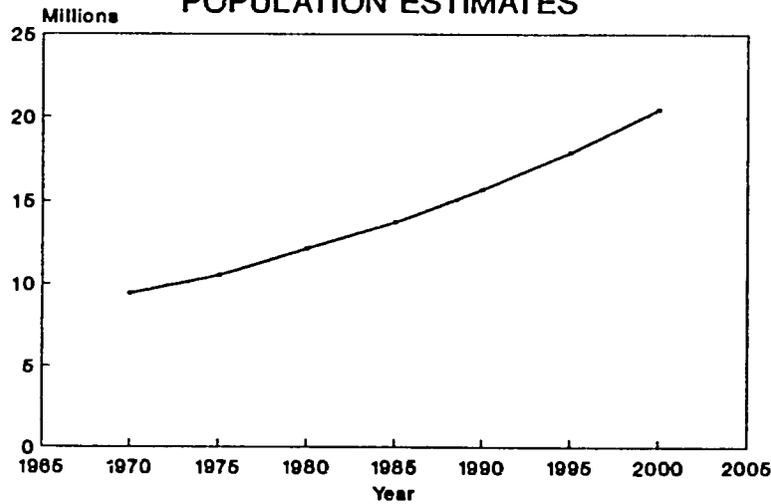
A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

B World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

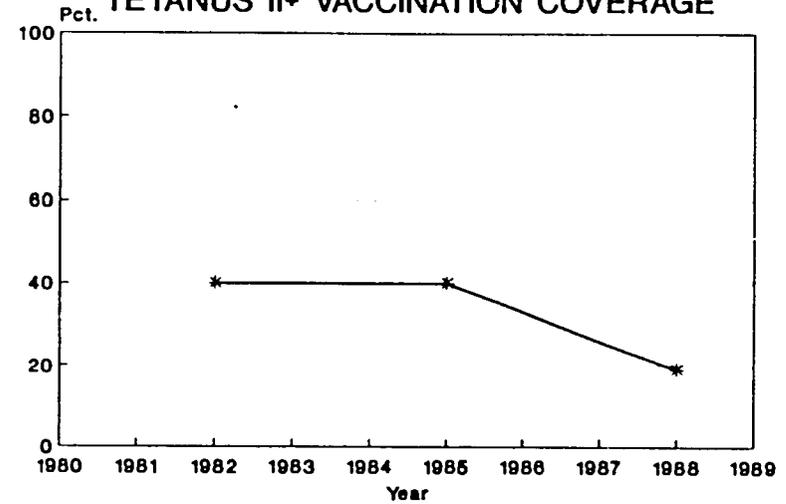
MOZAMBIQUE

POPULATION ESTIMATES



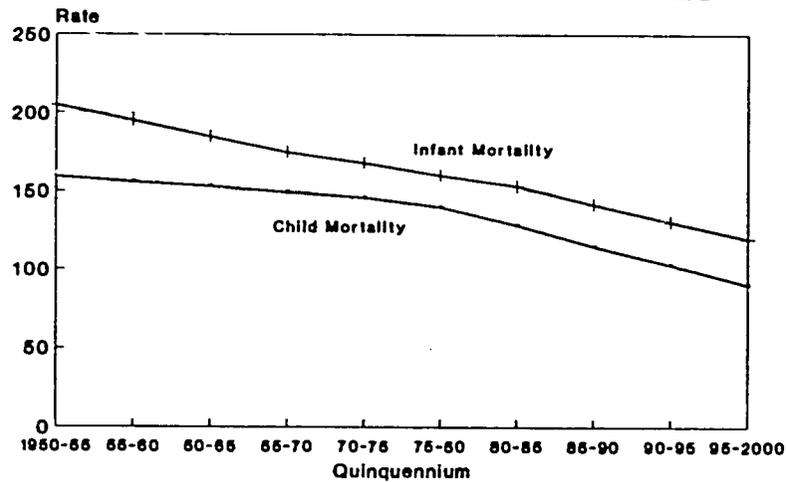
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



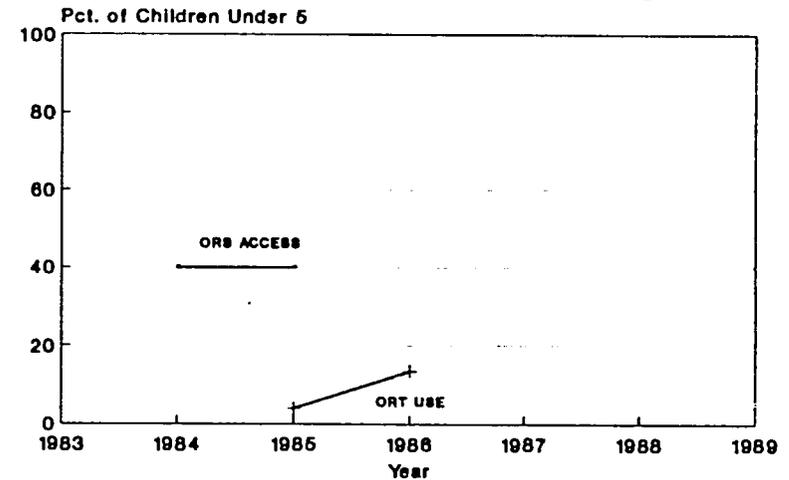
SOURCE: World Health Organization Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



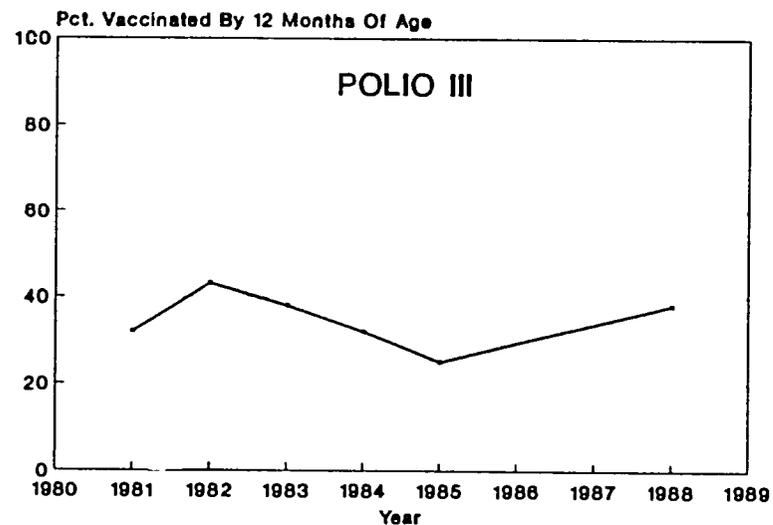
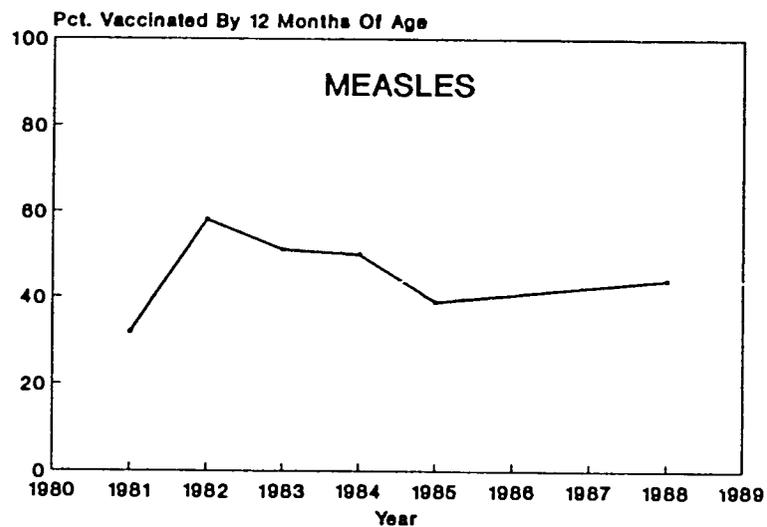
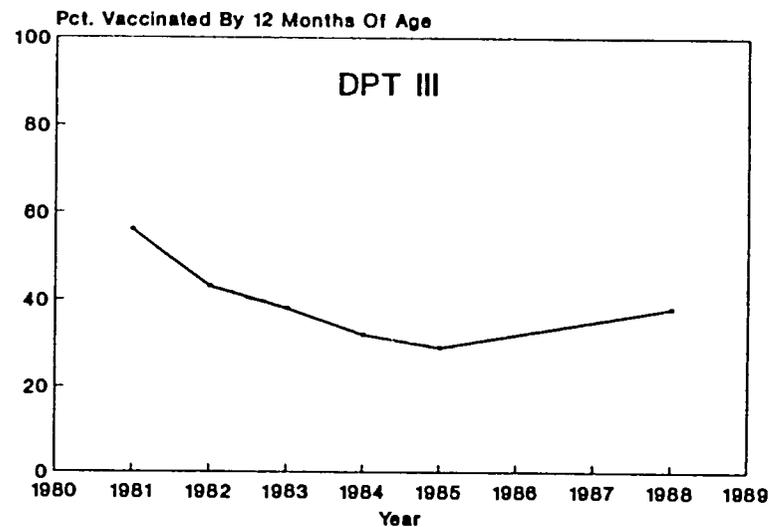
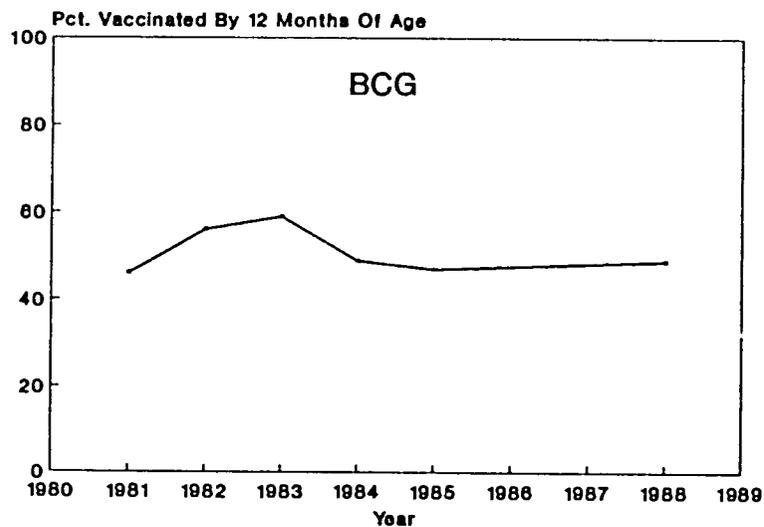
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN MOZAMBIQUE



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

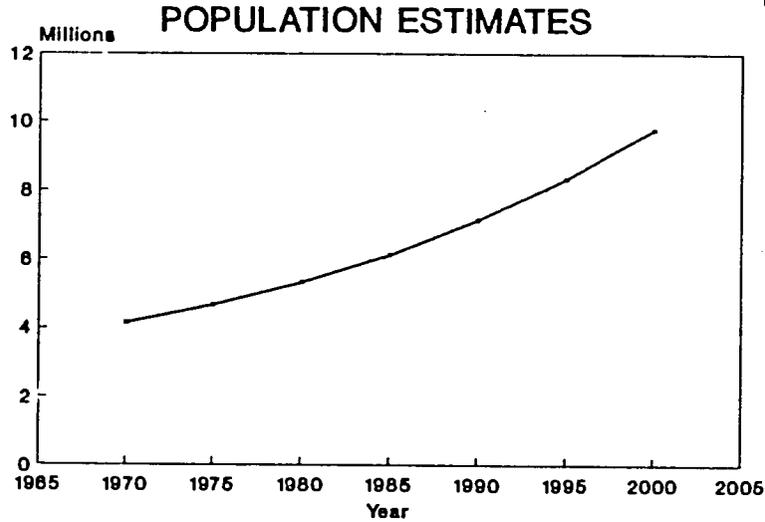
NIGER

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

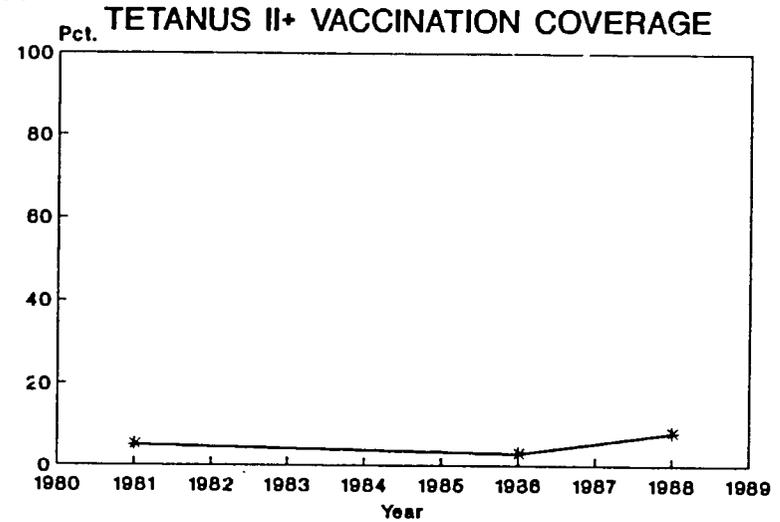
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 6,894,000 | 1989 | A |
| Infant Mortality Rate | 132/1000 | 1989 | A |
| Life Expectancy At Birth | 45 Yrs | 1989 | A |
| Children Under Age 1 | 317,000 | 1989 | A |
| Annual Infant Deaths | 46,000 | 1989 | A |
| Total Fertility Rate | 7.1 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 39.0% | 1988 | B |
| DPT III | 16.0% | 1988 | B |
| Measles | 24.0% | 1988 | B |
| Polio III | 16.0% | 1988 | B |
| Tetanus II+ | 8.0% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 44% | 1988 | C |
| ORT Use Rate | 38% | 1988 | C |
| Contraceptive Prevalence | 1% | 1987 | D |
| Adequate Nutritional Status | 88% | 1989 | E |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B Nationwide Survey, Ministry of Health, December, 1988 as reported on the USAID Health and Child Survival Project Questionnaire, Project Number 6830254.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D "Columbia University KAP: 1987" as cited in A.I.D. Mission Cable/00029.
- E "Le Système de Santé et la Politique de Développement Sanitaire au Niger," May, 1989 as cited in the FY89 Mission Response Form.

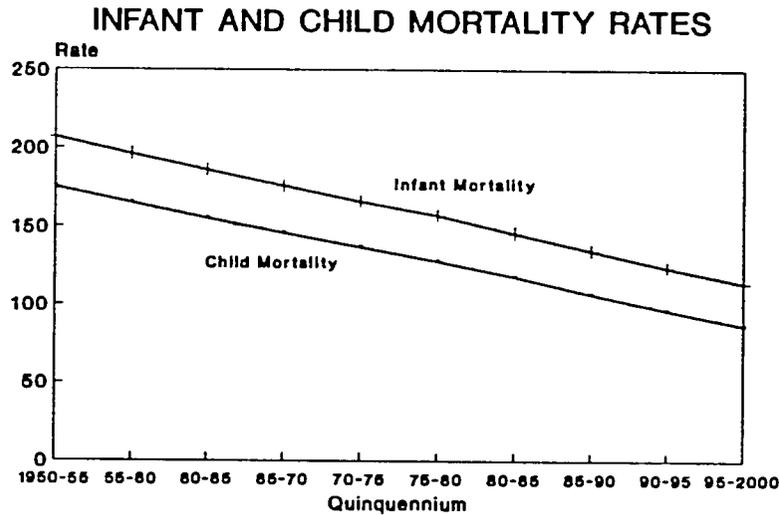
NIGER



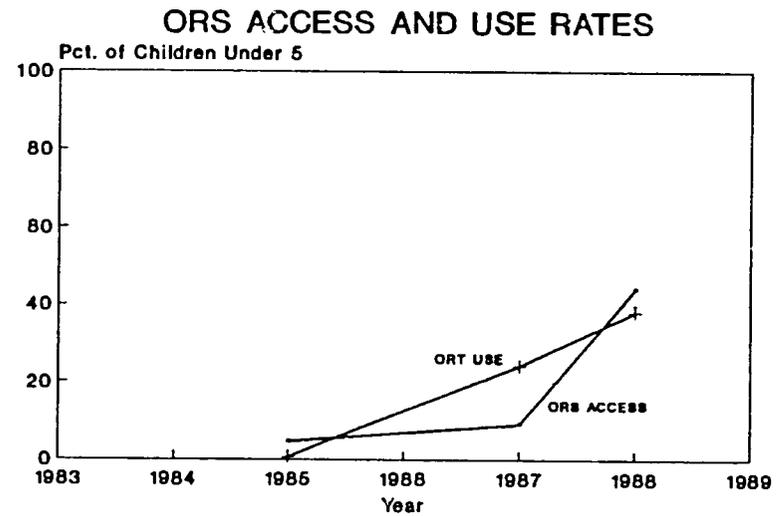
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: WHO, EPI Annual Reports (1988: 'Le Systeme de Sante ...', 1989)

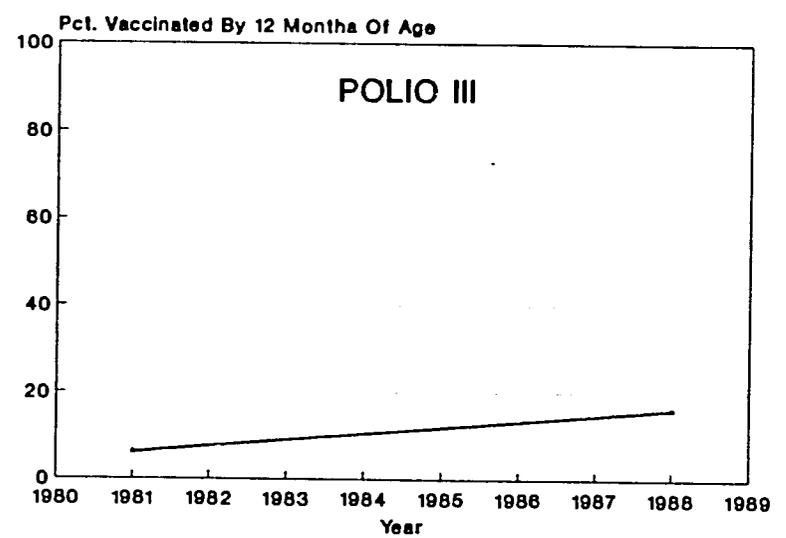
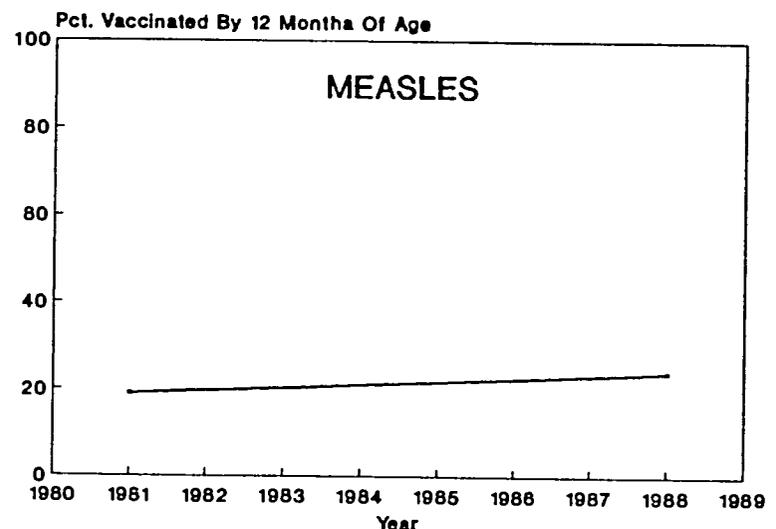
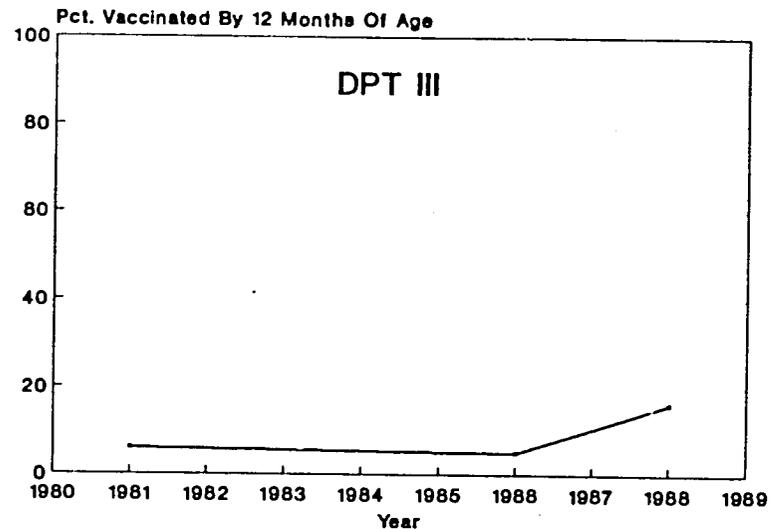
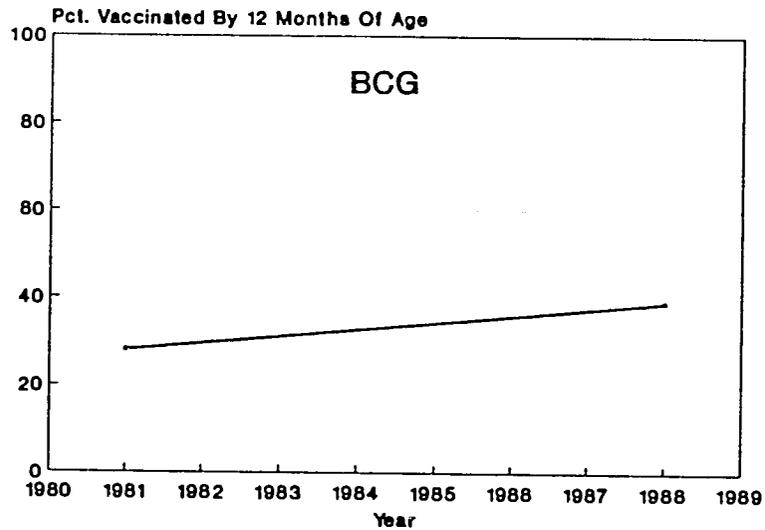


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN NIGER



SOURCE: WHO/EPI Report, 1/87 / 1988: "Le Systeme ...", 1989

CIHI, ISTI; 3/90

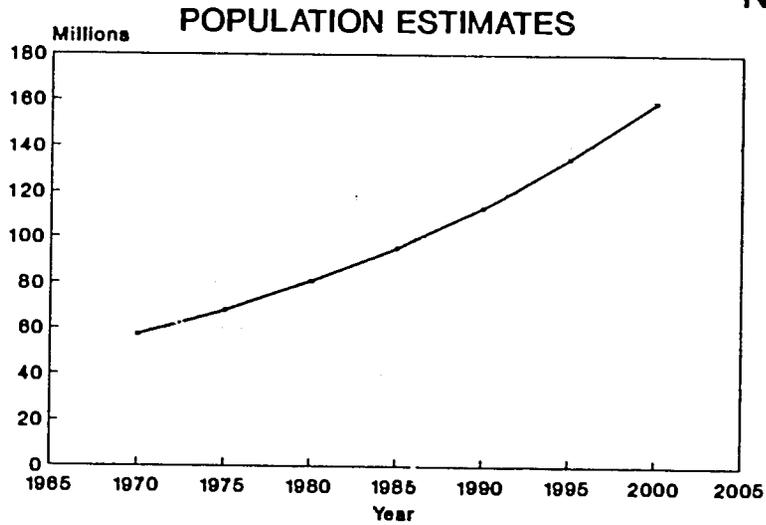
NIGERIA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

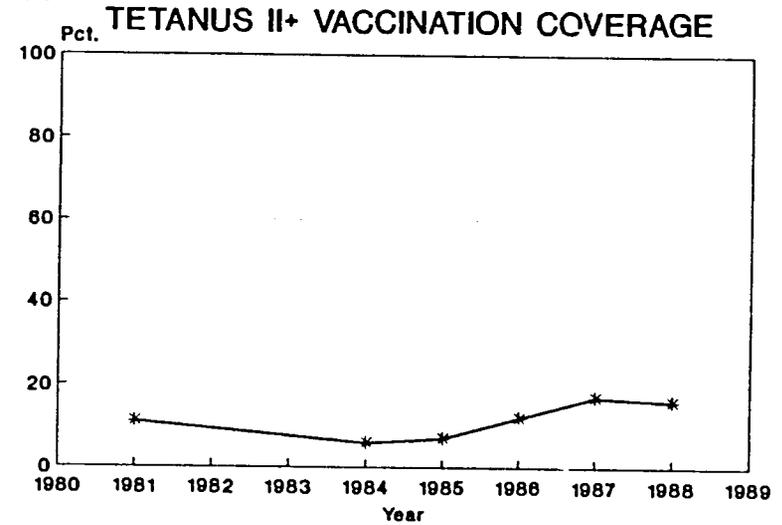
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 109,175,000 | 1989 | A |
| Infant Mortality Rate | 102/1000 | 1989 | A |
| Life Expectancy At Birth | 51 Yrs | 1989 | A |
| Children Under Age 1 | 5,014,000 | 1989 | A |
| Annual Infant Deaths | 553,000 | 1989 | A |
| Total Fertility Rate | 6.9 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 53% | 1988 | B |
| DPT III | 42% | 1988 | B |
| Measles | 42% | 1988 | B |
| Polio III | 42% | 1988 | B |
| Tetanus II+ | 16% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 60% | 1988 | C |
| ORT Use Rate | 35% | 1988 | C |
| Contraceptive Prevalence (Modern) | 1% | 1982 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D World Fertility Survey of 1981/82 as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

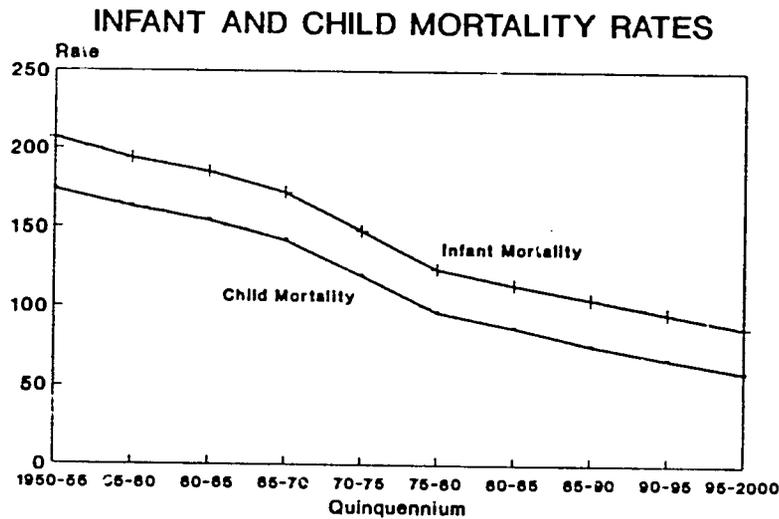
NIGERIA



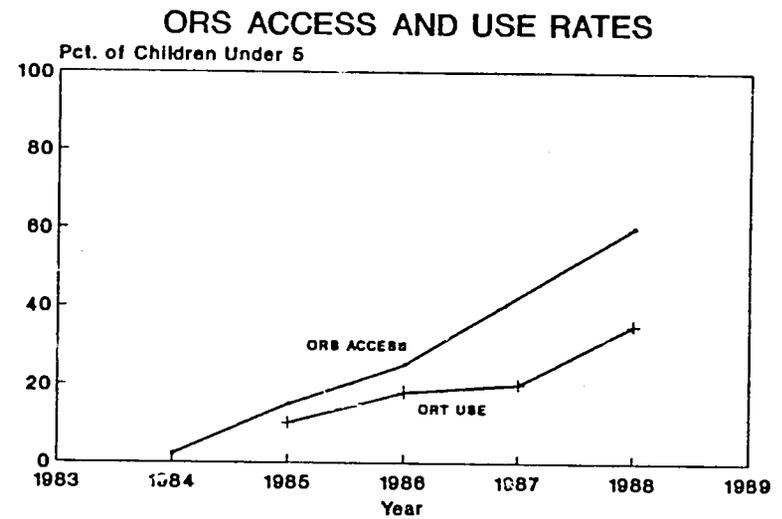
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

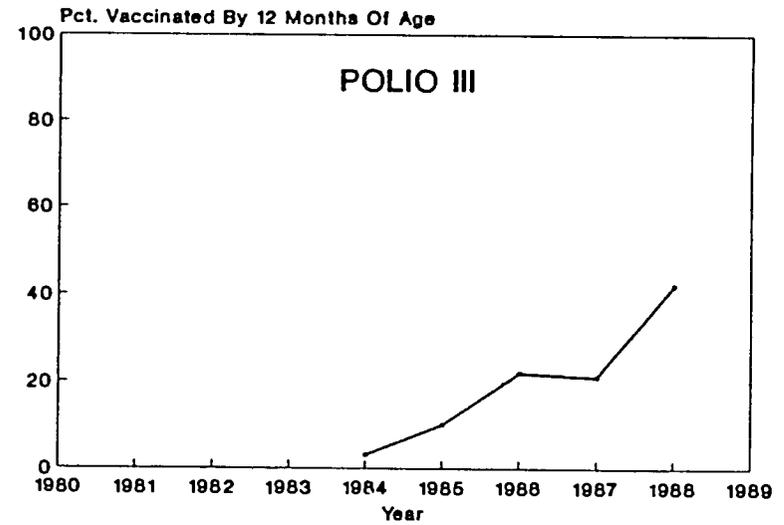
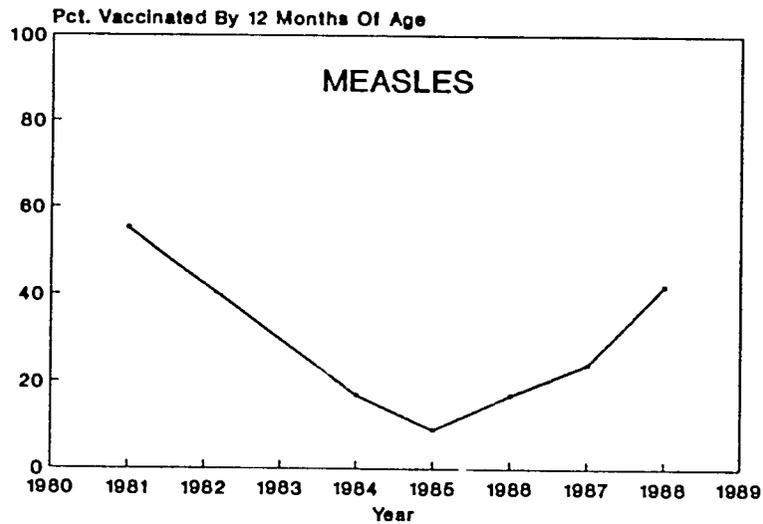
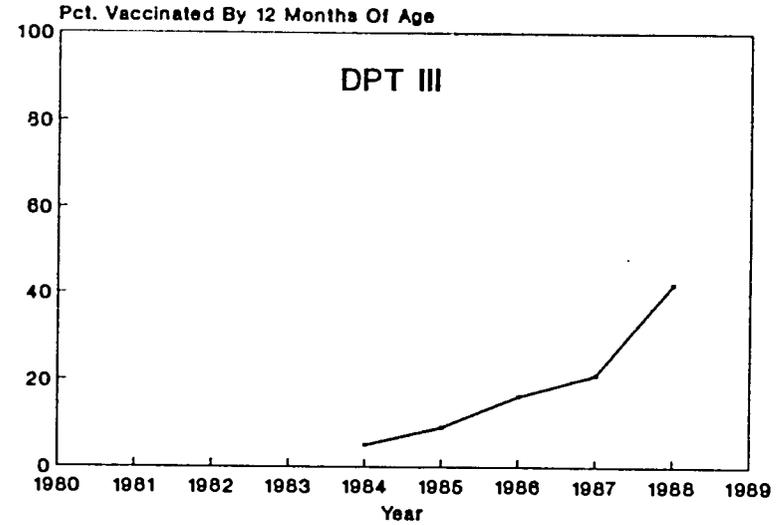
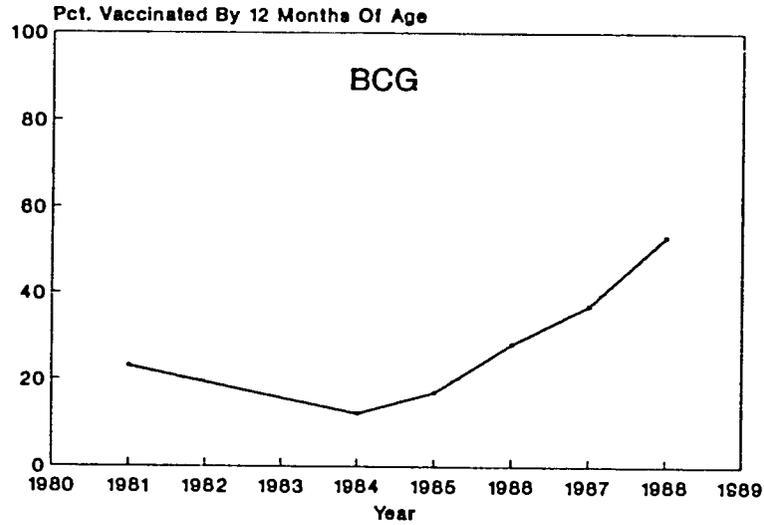


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN NIGERIA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

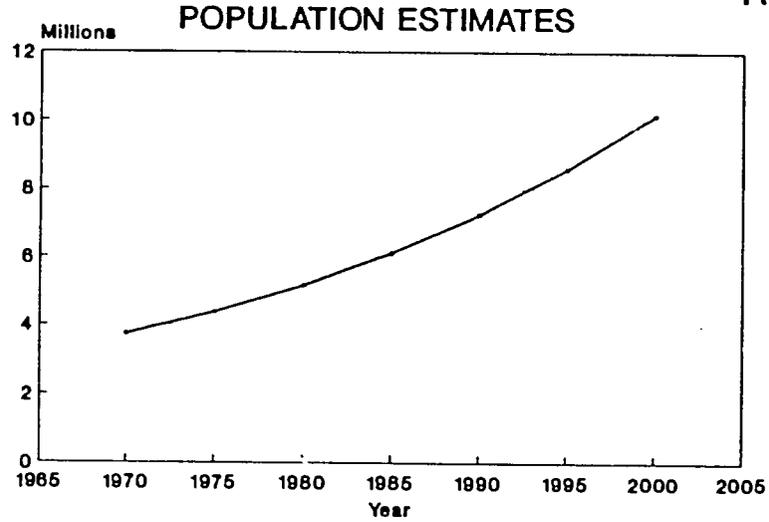
RWANDA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

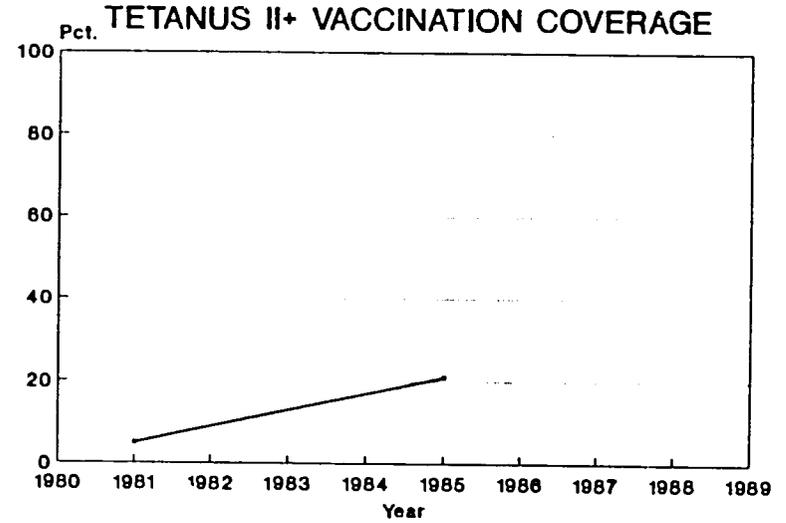
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 6,989,000 | 1989 | A |
| Infant Mortality Rate | 119/1000 | 1989 | A |
| Life Expectancy At Birth | 49 Yrs | 1989 | A |
| Children Under Age 1 | 324,000 | 1989 | A |
| Annual Infant Deaths | 42,000 | 1989 | A |
| Total Fertility Rate | 8.2 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 90% | 1988 | B |
| DPT III | 79% | 1988 | B |
| Measles | 75% | 1988 | B |
| Polio III | 79% | 1988 | B |
| Tetanus II+ | 21% | 1985 | C |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 79.0% | 1988 | D |
| ORT Use Rate | 24.4% | 1987 | D |
| Contraceptive Prevalence (Modern) | 4.2% | 1988 | E |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations (The official Government Total Fertility Rate = 8.6.)
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization Expanded Programme on Immunization, Report EPI/MISC/89.2.
- D World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- E Government of Rwanda estimate for 1988 as cited in the FY 1989 USAID Mission Response Form.

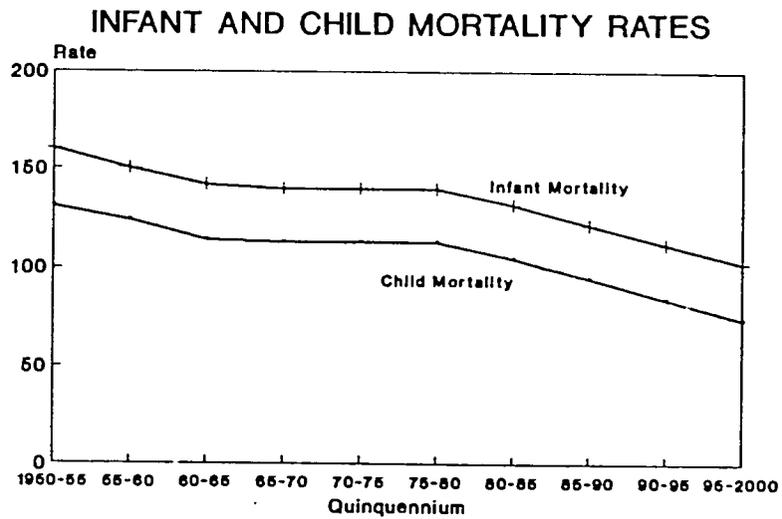
RWANDA



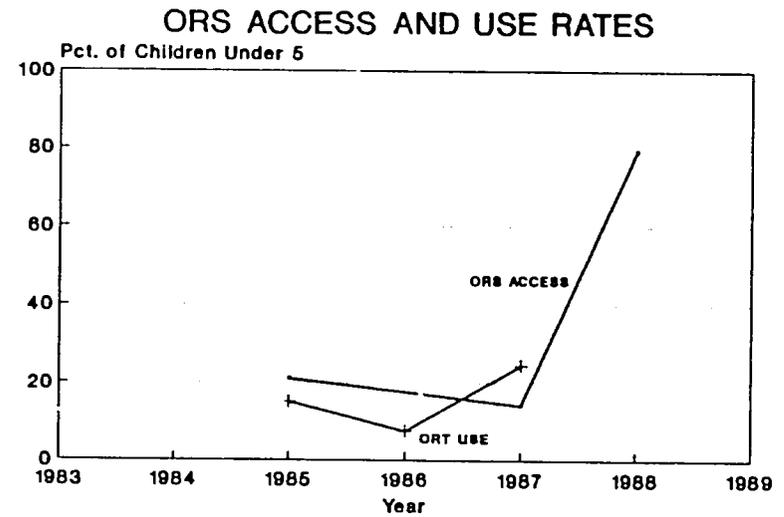
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

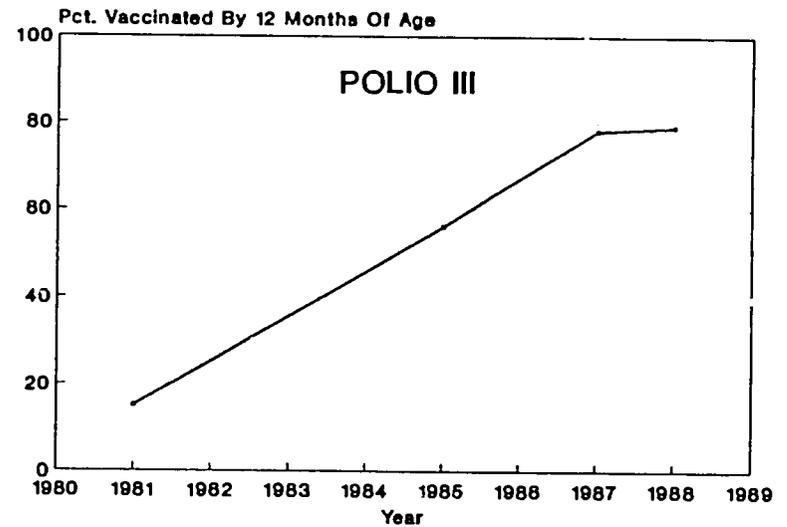
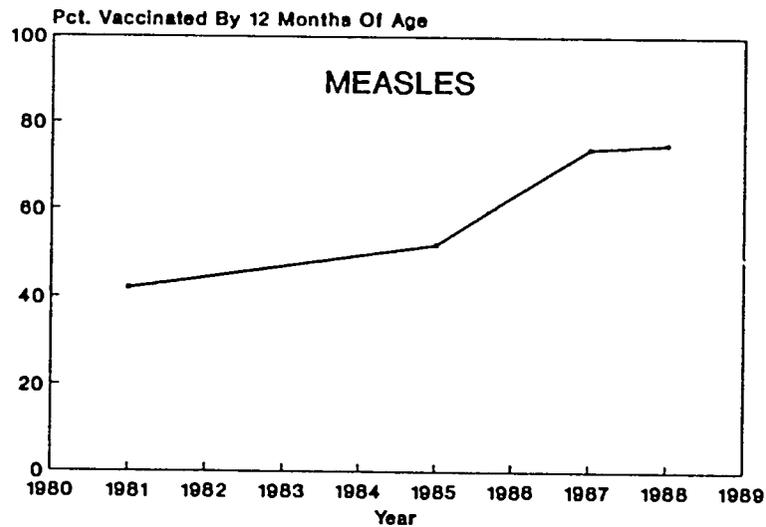
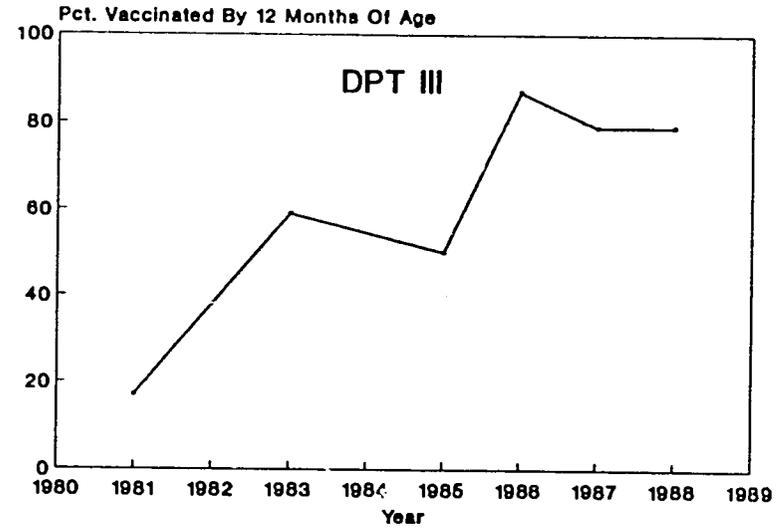
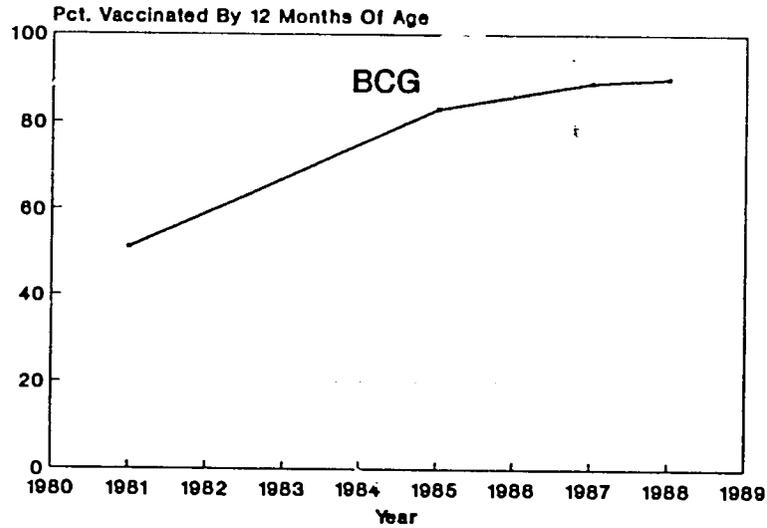


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN RWANDA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

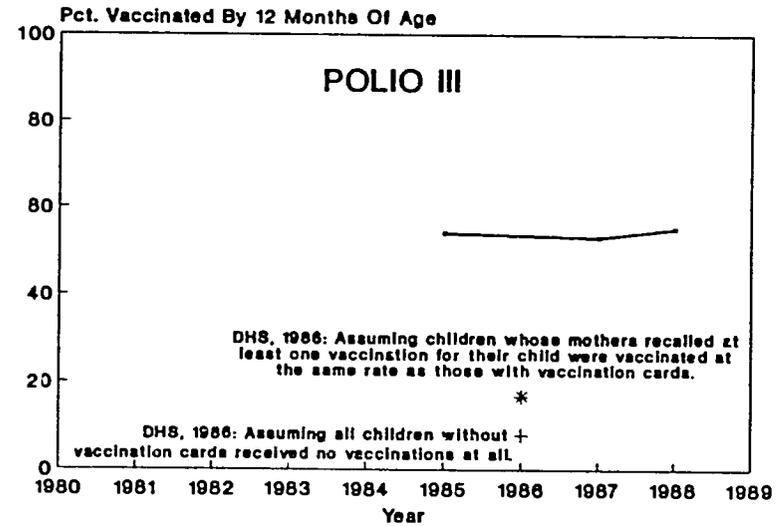
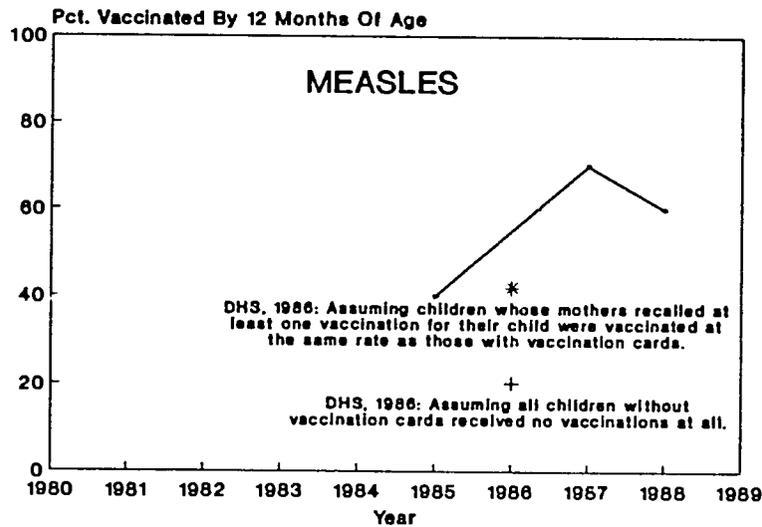
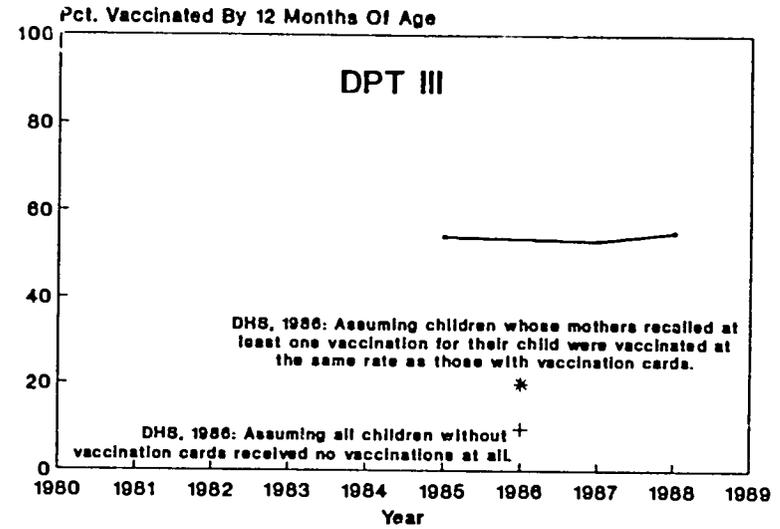
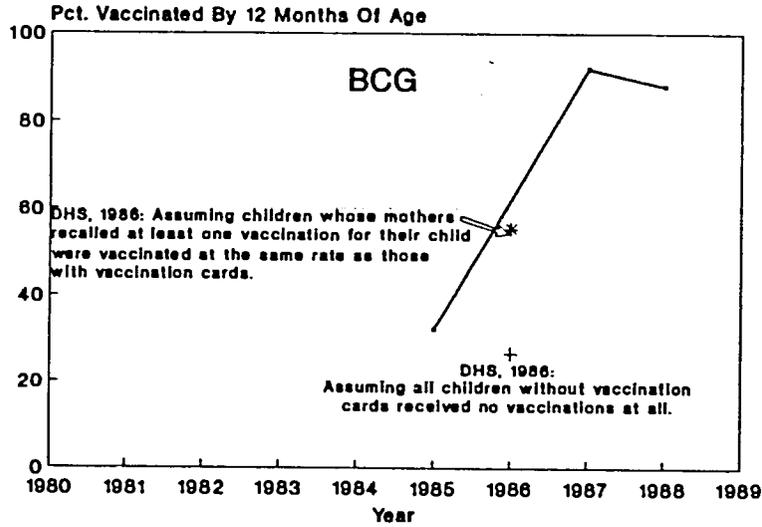
SENEGAL

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 7,171,000 | 1989 | A |
| Infant Mortality Rate | 125/1000 | 1989 | A |
| Life Expectancy At Birth | 46 Yrs | 1989 | A |
| Children Under Age 1 | 297,000 | 1989 | A |
| Annual Infant Deaths | 41,000 | 1989 | A |
| Total Fertility Rate | 6.3 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 88% | 1988 | B |
| DPT III | 55% | 1988 | B |
| Measles | 60% | 1988 | B |
| Polio III | 55% | 1988 | B |
| Tetanus II+ | 26% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 16% | 1988 | C |
| ORT Use Rate | 27% | 1988 | C |
| Contraceptive Prevalence (Modern) | 2.4% | 1986 | D |
| Adequate Nutritional Status | 72% | 1986 | D |
| Appropriate Infant Feeding | 49% | 1986 | D |
| a) Exclusive Breastfeeding | 5% | | |
| b) Introduction Of Solids | 72% | | |
| Median Duration Of Breastfeeding | 19.6 Mos | 1986 | D |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B Administrative data cited in "Senegal: Follow-up Rapid Assessment, Universal Childhood Immunization (UCI) and Social Mobilization -- Evaluation of Senegal's Immunization Programme," June 19 - July 6, 1989, UNICEF-Evaluation Office.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Enquête Démographique et de Santé au Senegal: 1986, Ministère de l'Economie et des Finances, Direction de la Statistique, Division des Enquêtes et de la Démographie and Demographic and Health Surveys, Institute for Resource Development/Westinghouse, March, 1988.

VACCINATION COVERAGE RATES IN SENEGAL

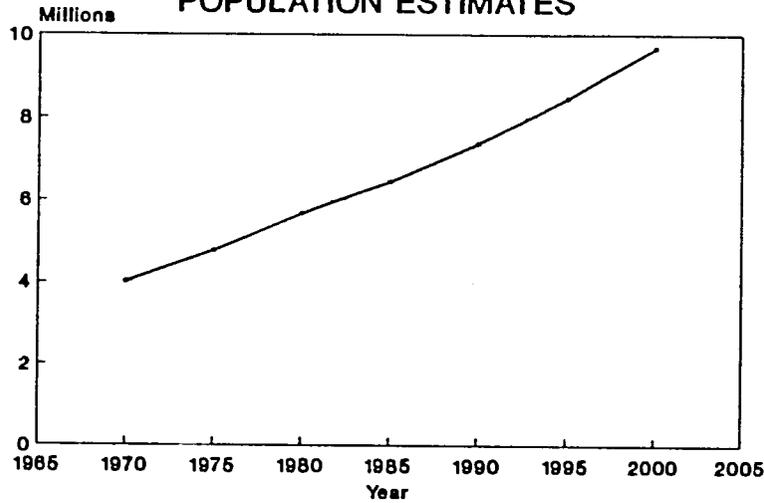


SOURCE: WHO, Annual EPI Reports / 1988: UNICEF, Prog. Eval.

CIHI, ISTI; 3/90

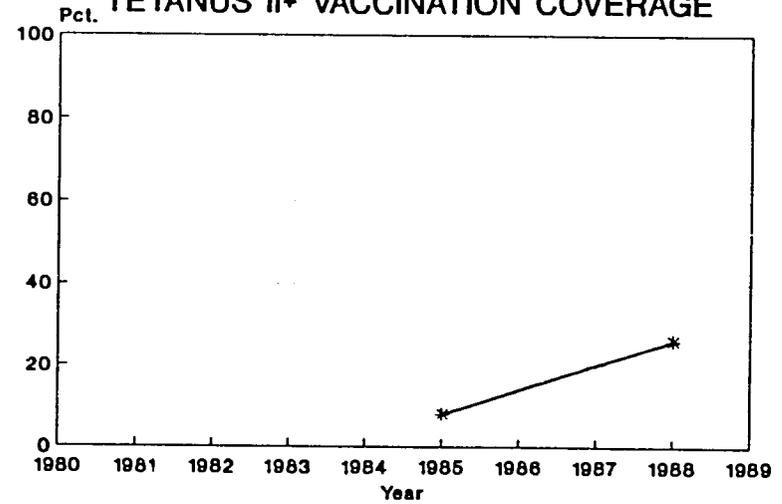
SENEGAL

POPULATION ESTIMATES



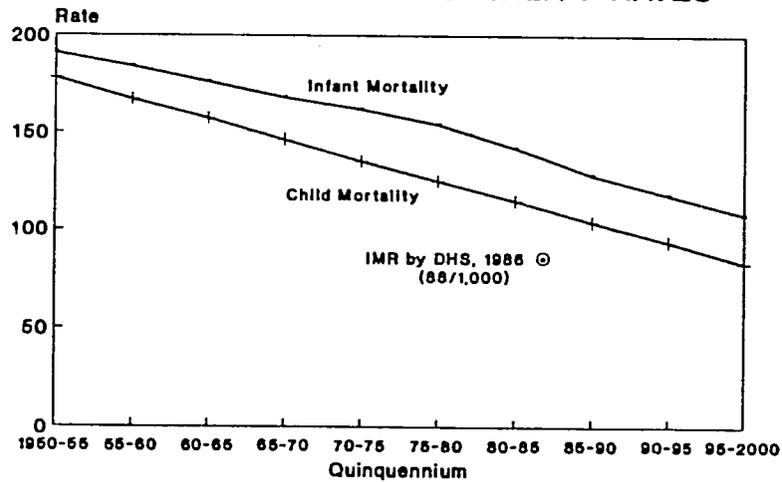
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



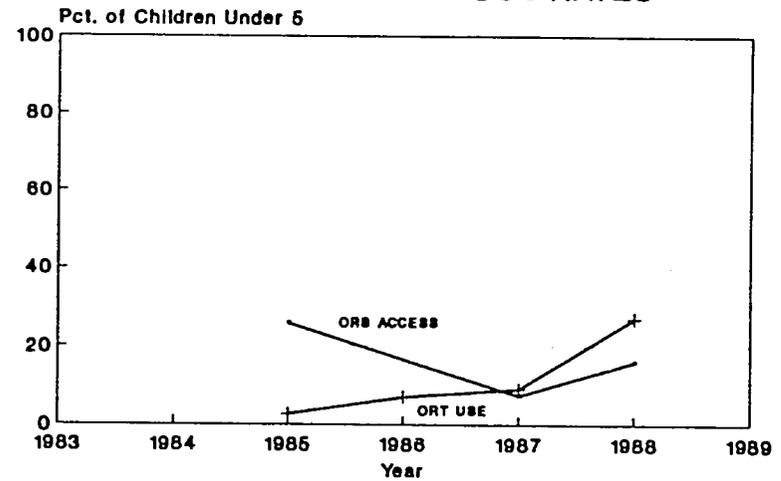
SOURCE: WHO, Annual EPI Reports
1988: UNICEF, Evaluation ... Imm. Prog.

INFANT AND CHILD MORTALITY RATES



SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the CDD Programme (1986: DHS Survey)

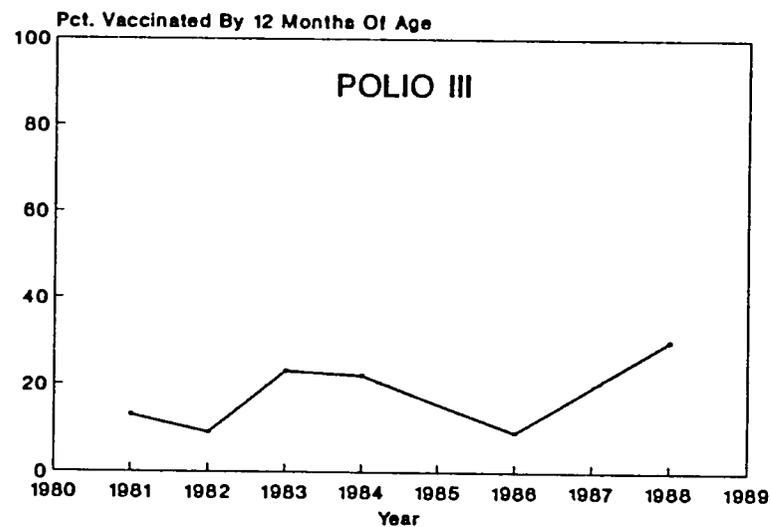
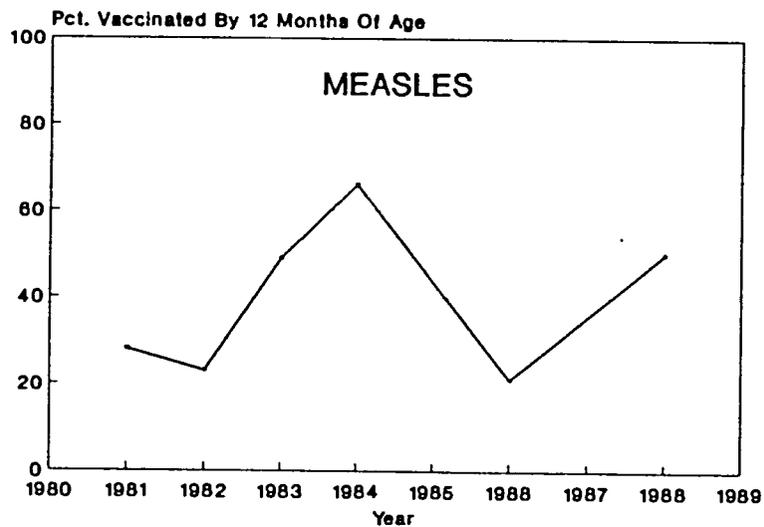
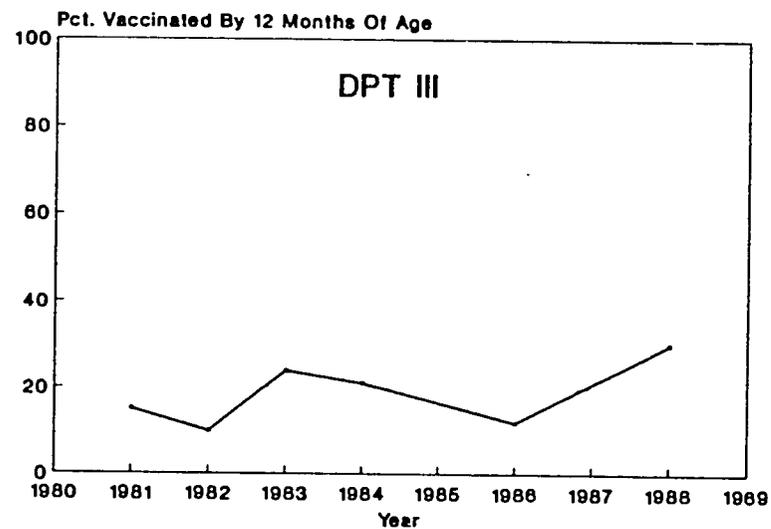
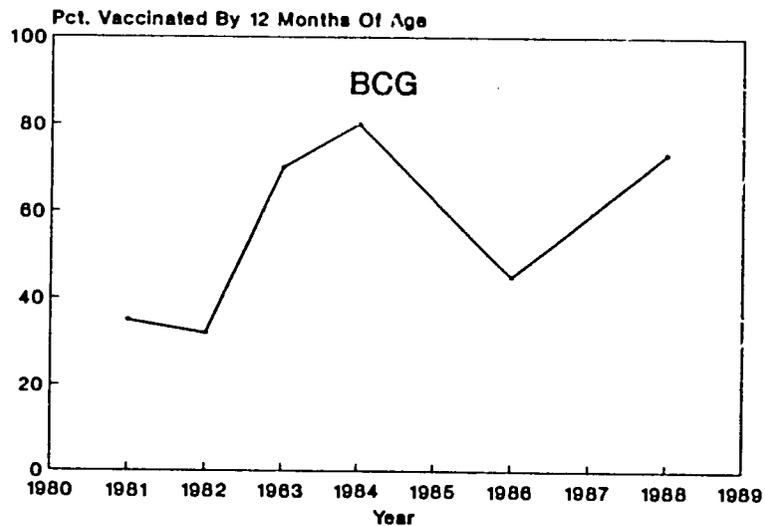
SIERRA LEONE

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 4,046,000 | 1989 | A |
| Infant Mortality Rate | 151/1000 | 1989 | A |
| Life Expectancy At Birth | 42 Yrs | 1989 | A |
| Children Under Age 1 | 174,000 | 1989 | A |
| Annual Infant Deaths | 29,000 | 1989 | A |
| Total Fertility Rate | 6.5 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 73% | 1988 | B |
| DPT III | 30% | 1988 | B |
| Measles | 50% | 1988 | B |
| Polio III | 30% | 1988 | B |
| Tetanus II+ | 59% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 60% | 1987 | C |
| ORT Use Rate | 31% | 1986 | C |
| Contraceptive Prevalence | 4% | 1982 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Ross, John A. et. al., Family Planning and Child Survival: 100 Developing Countries, 1988, Columbia University.

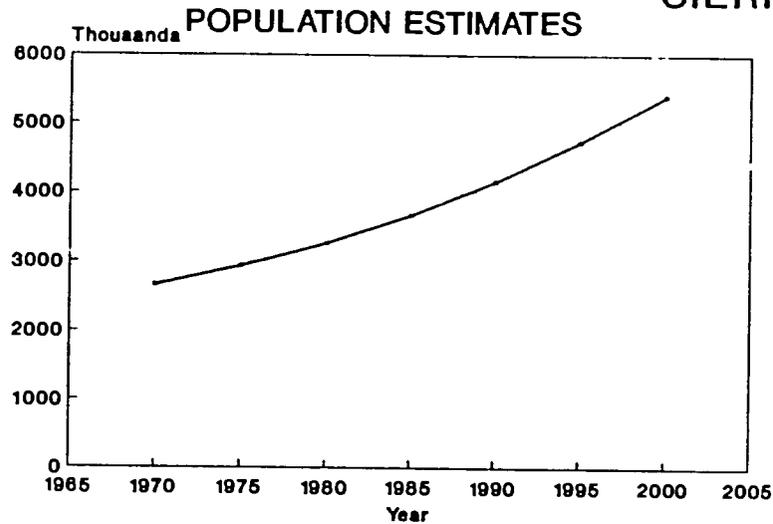
VACCINATION COVERAGE RATES IN SIERRA LEONE



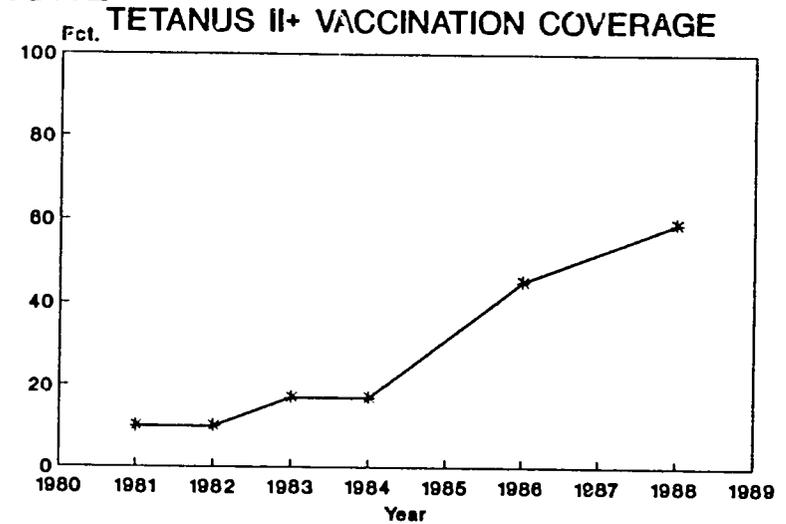
SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

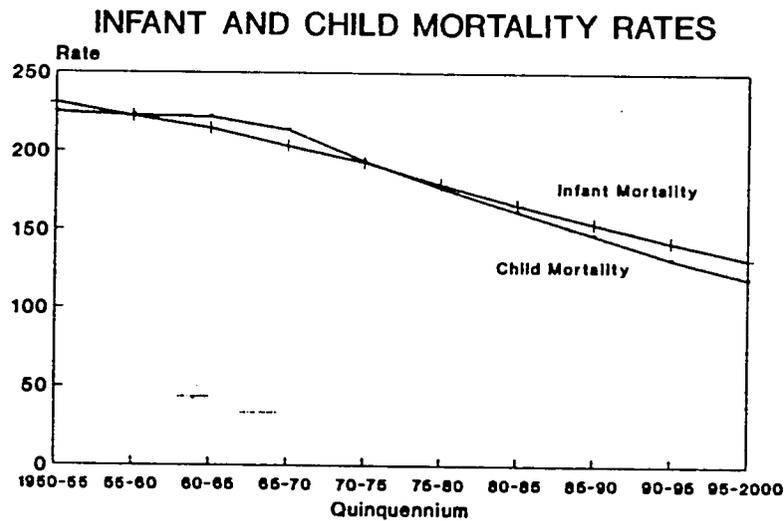
SIERRA LEONE



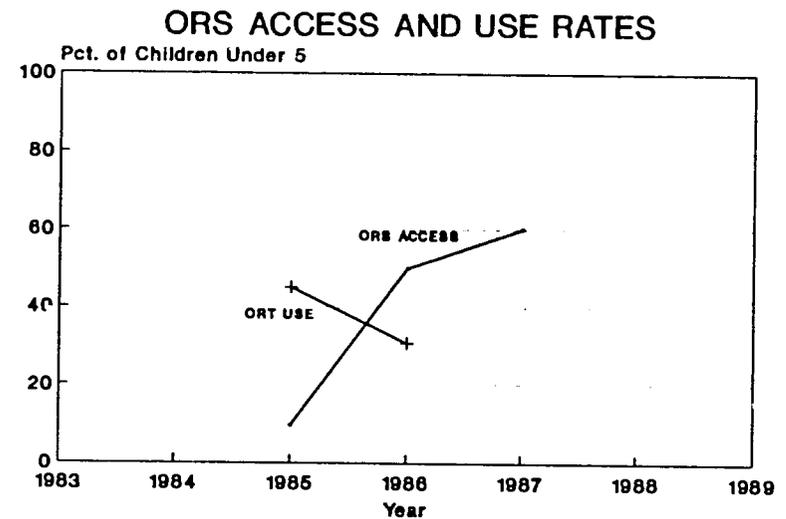
SOURCE: United Nations,
World Population Prospects, 1988



SOURCE: World Health Organization
Annual Reports of the EPI Programme



SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

SOMALIA

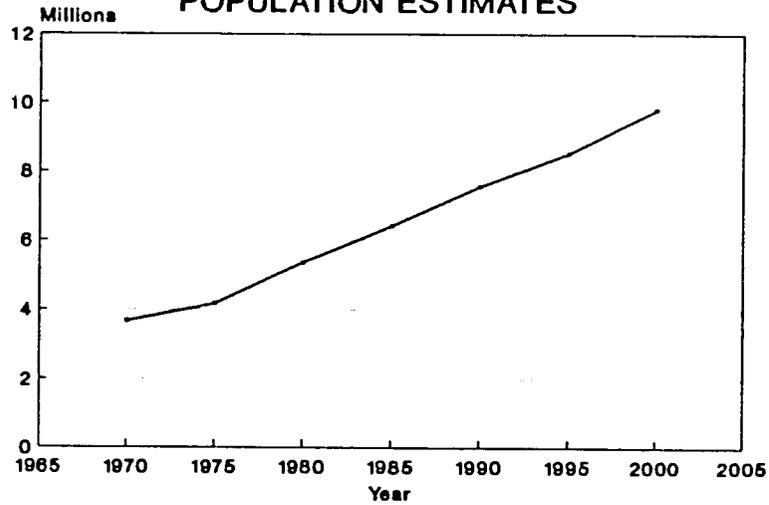
THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 7,339,000 | 1989 | A |
| Infant Mortality Rate | 129/1000 | 1989 | A |
| Life Expectancy At Birth | 45 Yrs | 1989 | A |
| Children Under Age 1 | 331,000 | 1989 | A |
| Annual Infant Deaths | 47,000 | 1989 | A |
| Total Fertility Rate | 6.6 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 39% | 1988 | B |
| DPT III | 26% | 1988 | B |
| Measles | 33% | 1988 | B |
| Polio III | 26% | 1988 | B |
| Tetanus II+ | 37% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 31% | 1987 | C |
| ORT Use Rate | 12% | 1987 | C |
| Contraceptive Prevalence | 1% | 1984 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Contraceptive Prevalence Survey done by Westinghouse in 1984 as cited in FY 1989 USAID Mission Response Form.

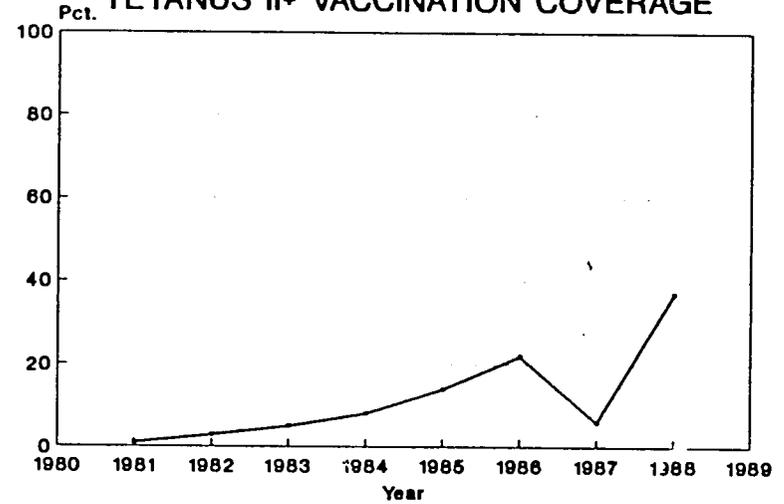
SOMALIA

POPULATION ESTIMATES



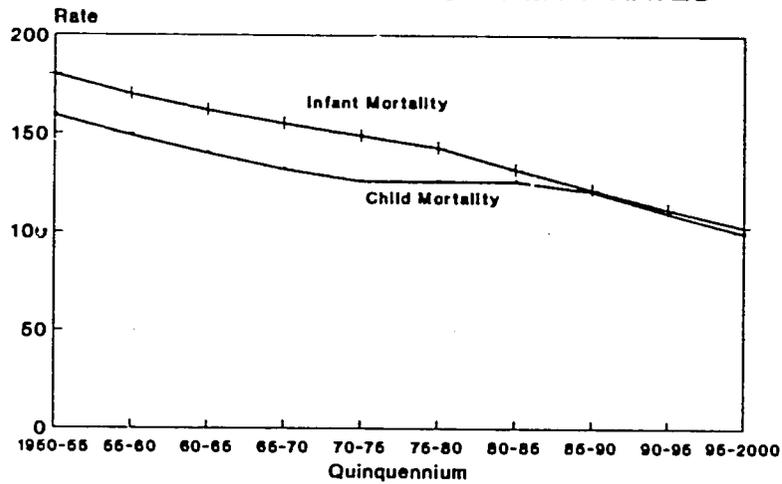
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



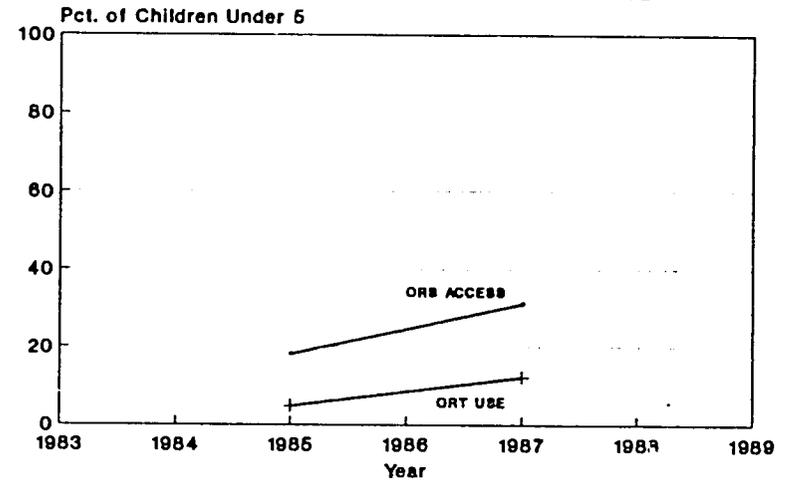
SOURCE: World Health Organization Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



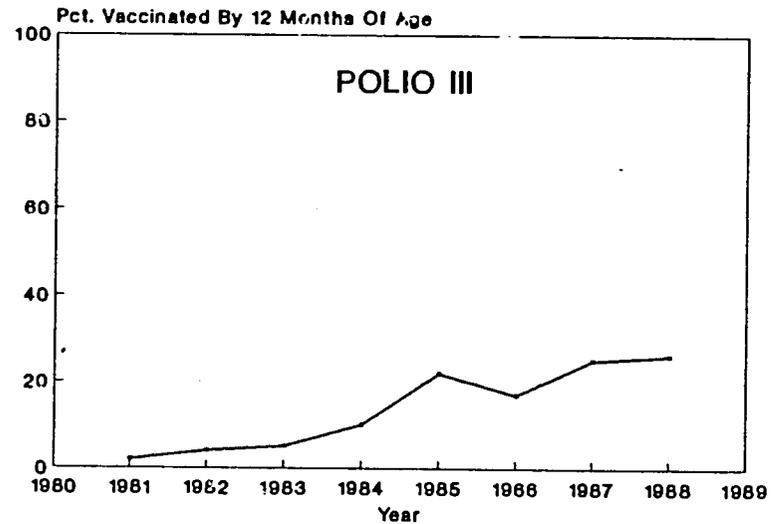
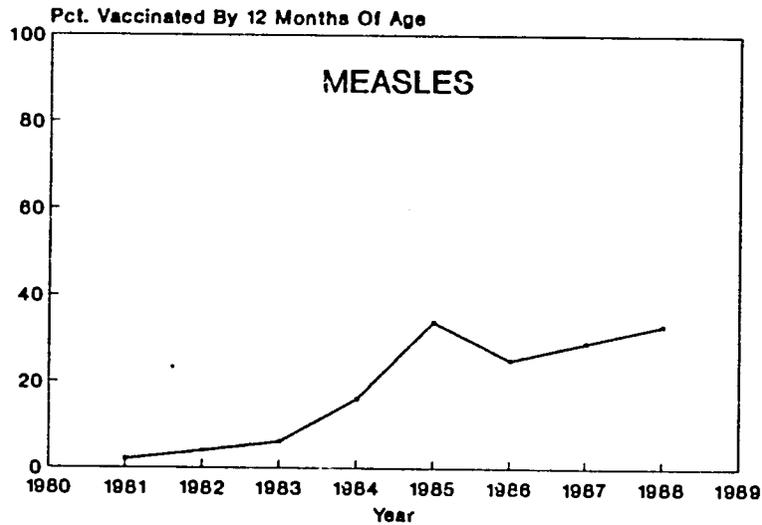
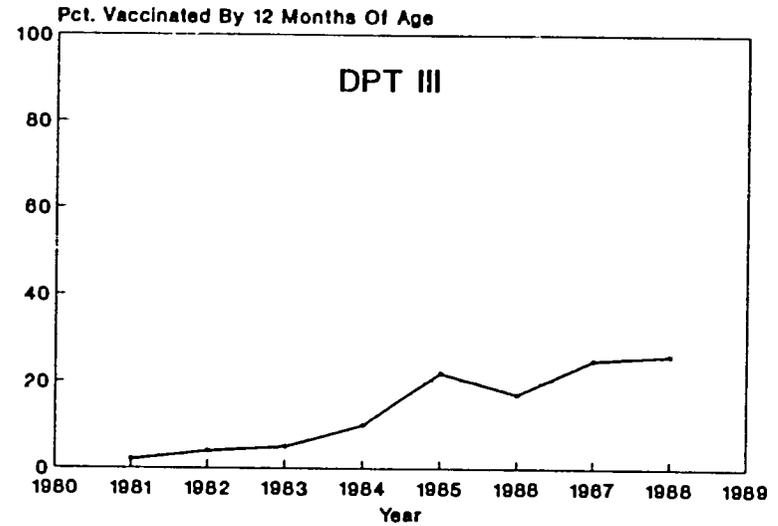
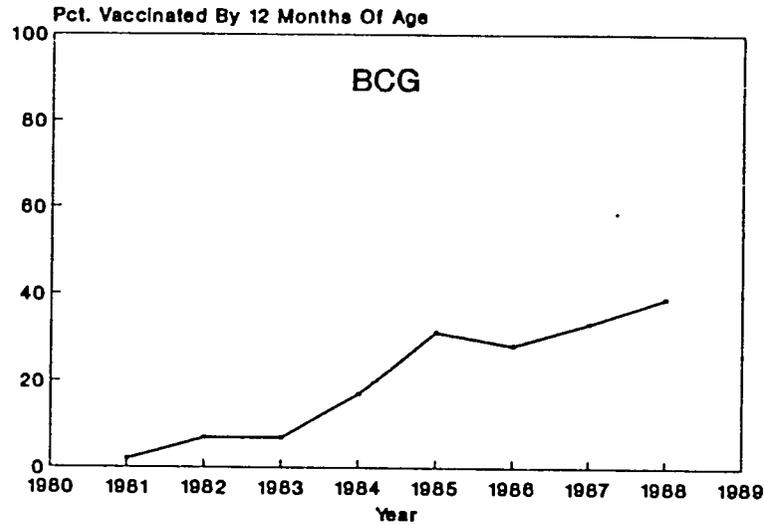
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN SOMALIA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

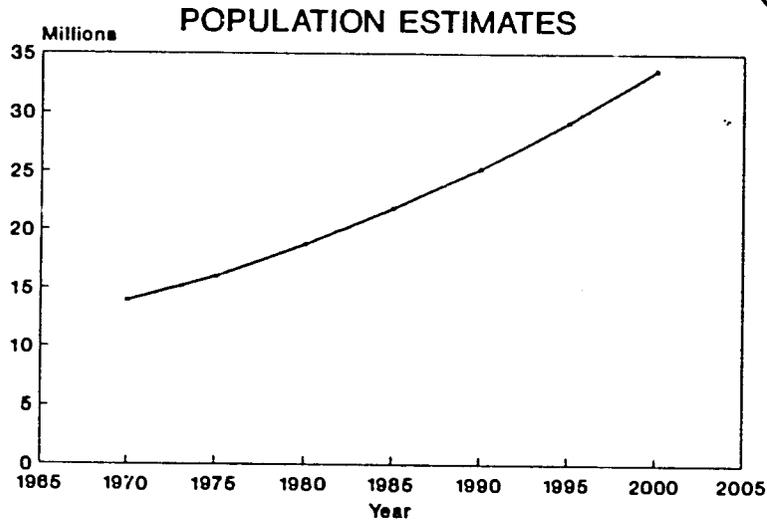
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THE MOST CURRENT VALUES FOR SELECTED INDICATORS

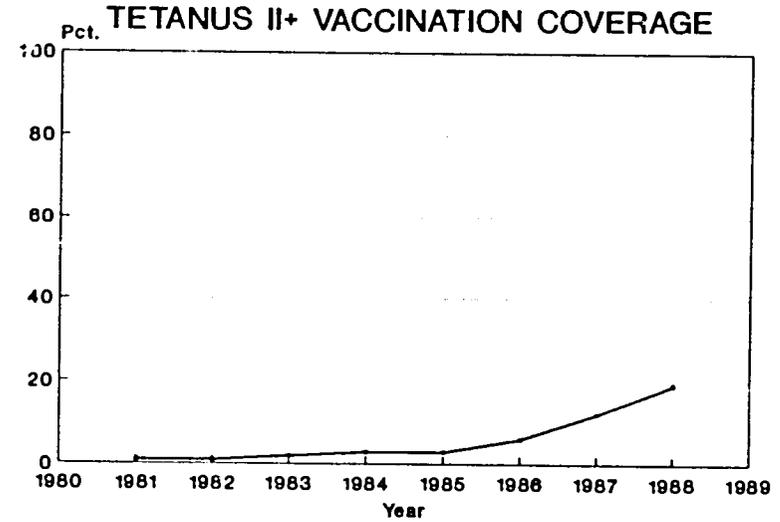
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 24,484,000 | 1989 | A |
| Infant Mortality Rate | 105/1000 | 1989 | A |
| Life Expectancy At Birth | 50 Yrs | 1989 | A |
| Children Under Age 1 | 1,002,000 | 1989 | A |
| Annual Infant Deaths | 114,000 | 1989 | A |
| Total Fertility Rate | 6.4 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 54% | 1988 | B |
| DPT III | 41% | 1988 | B |
| Measles | 35% | 1988 | B |
| Polio III | 41% | 1988 | B |
| Tetanus II+ | 19% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 39% | 1986 | C |
| ORT Use Rate | 25% | 1987 | C |
| Contraceptive Prevalence (Modern) | 4% | 1979 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D World Fertility Survey of 1979 as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

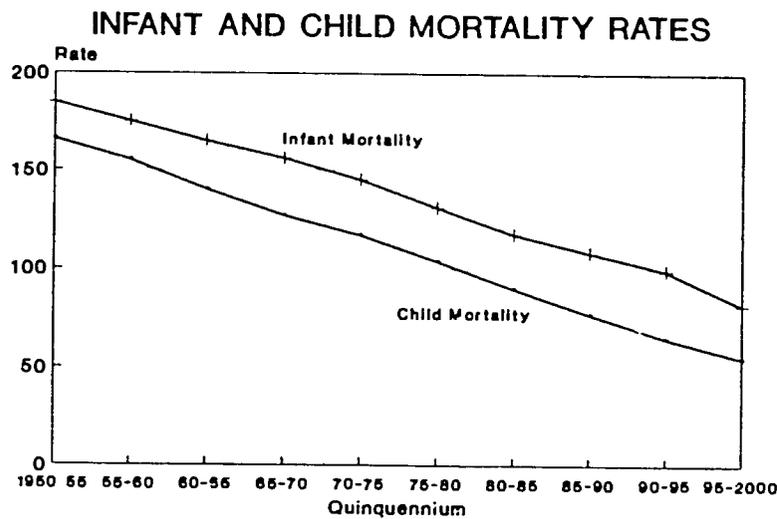
SUDAN



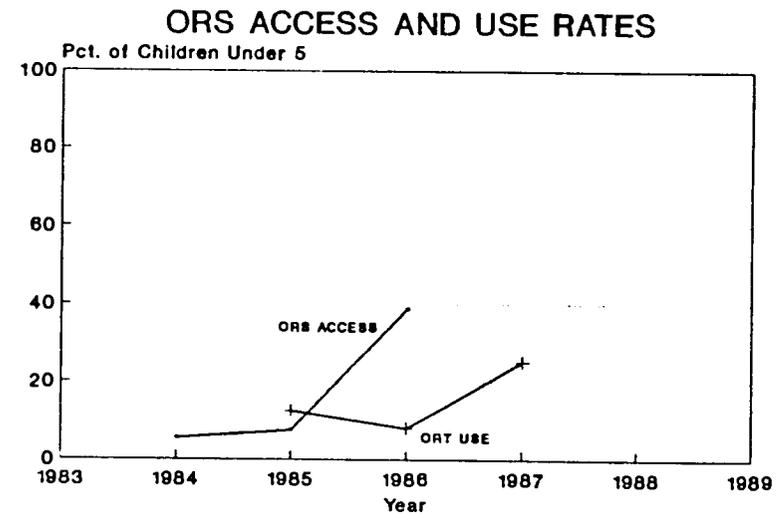
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

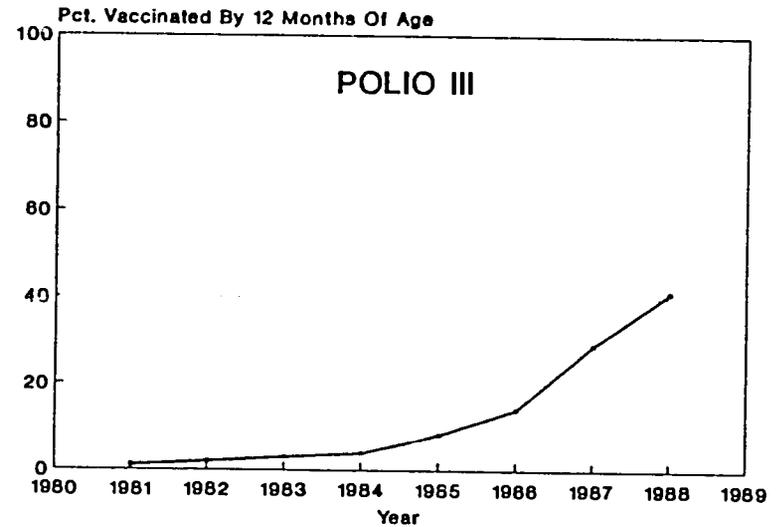
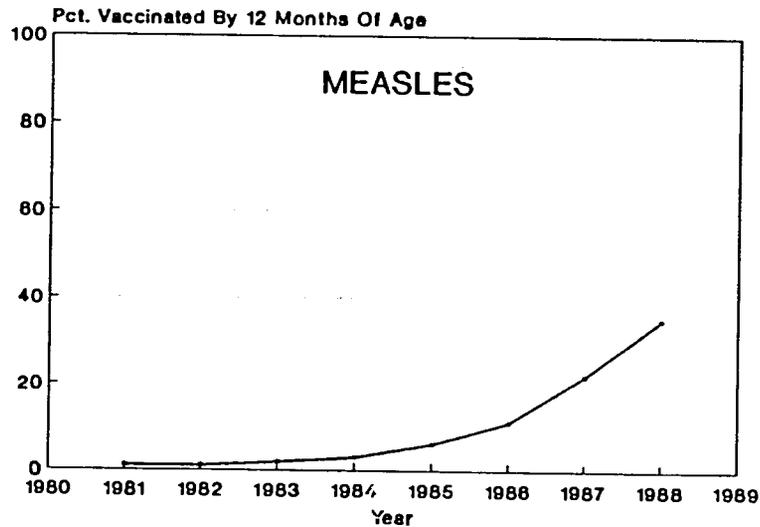
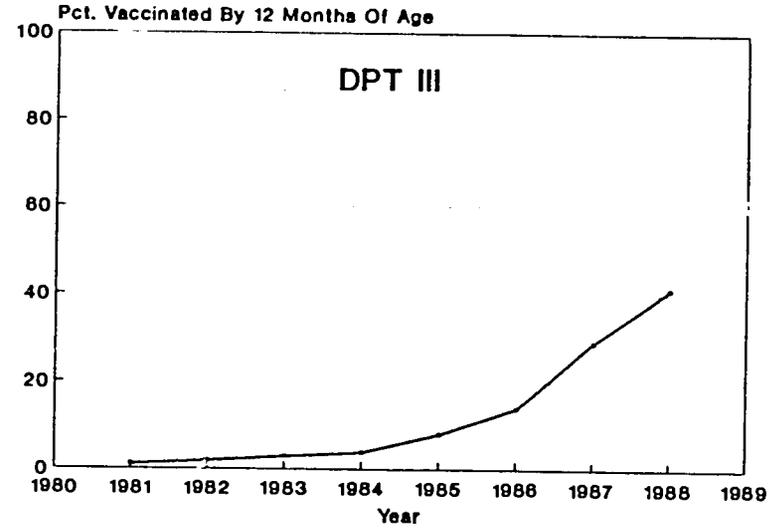
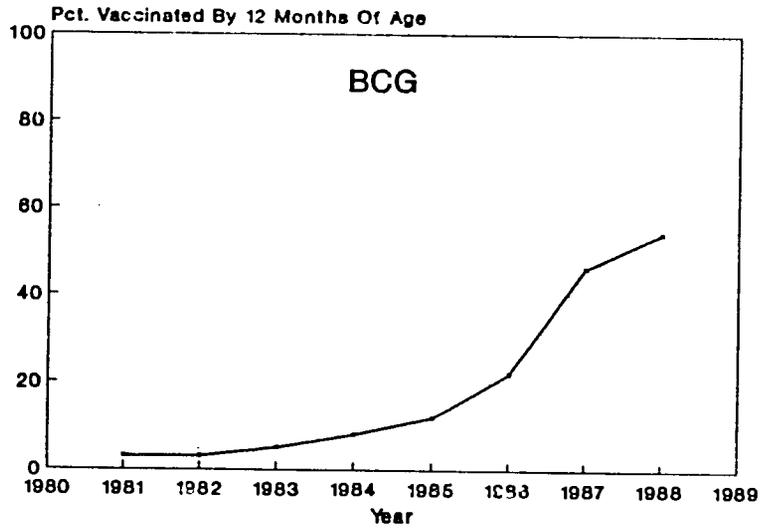


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN SUDAN



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

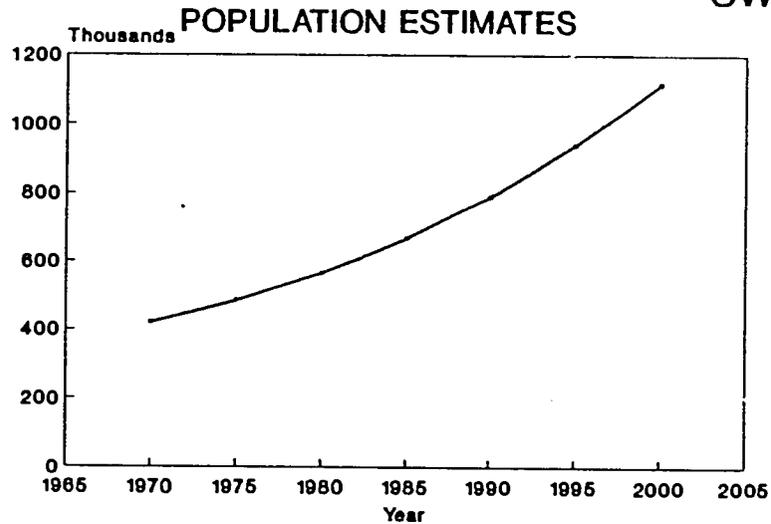
SWAZILAND

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

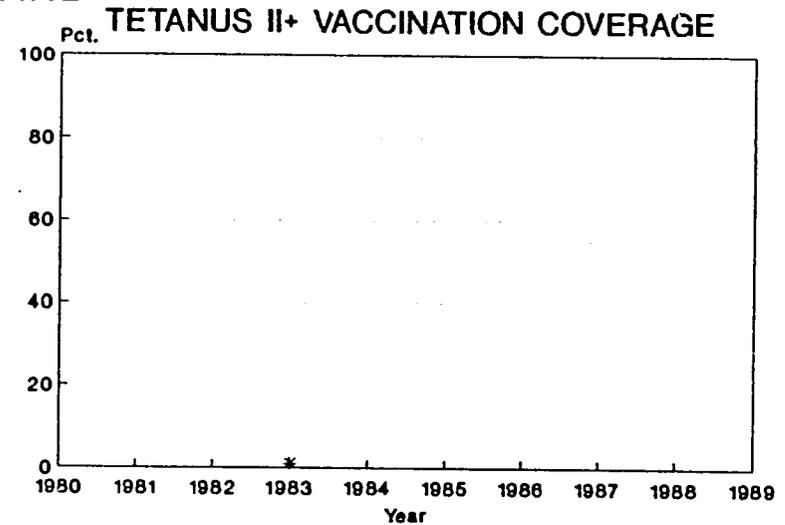
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 763,000 | 1989 | A |
| Infant Mortality Rate | 115/1000 | 1989 | A |
| Life Expectancy At Birth | 56 Yrs | 1989 | A |
| Children Under Age 1 | 33,000 | 1989 | A |
| Annual Infant Deaths | 4,000 | 1989 | A |
| Total Fertility Rate | 6.4 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 98% | 1988 | B |
| DPT III | 82% | 1988 | B |
| Measles | 90% | 1988 | B |
| Polio III | 82% | 1988 | B |
| Tetanus II+ | 1% | 1983 | C |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | N/A | | |
| ORT Use Rate | N/A | | |
| Contraceptive Prevalence (Modern) | 17% | 1988 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B National Family Health Survey, November 1988 to January 1989, as cited in the FY 1989 USAID Mission Response Form.
- C World Health Organization Expanded Programme on Immunization, Report dated 1/8/87).
- D 1988 Survey as cited in World Population Profile: 1989, U.S. Department of Commerce Bureau of the Census, September, 1989.

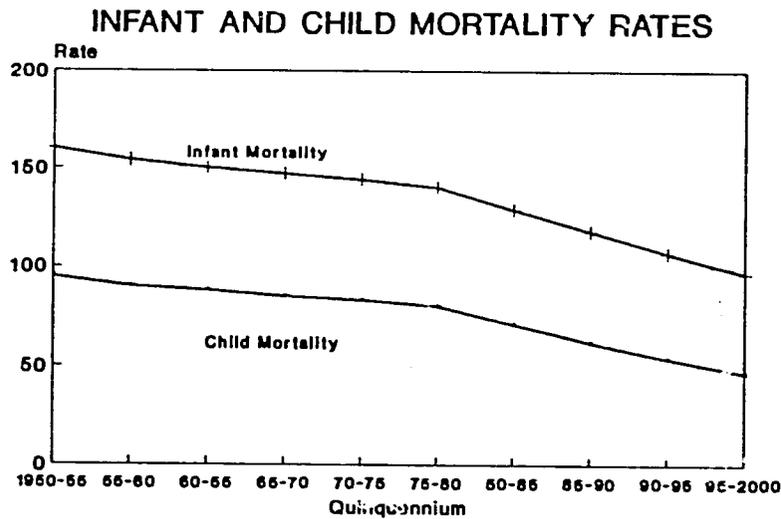
SWAZILAND



SOURCE: United Nations, World Population Prospects, 1988

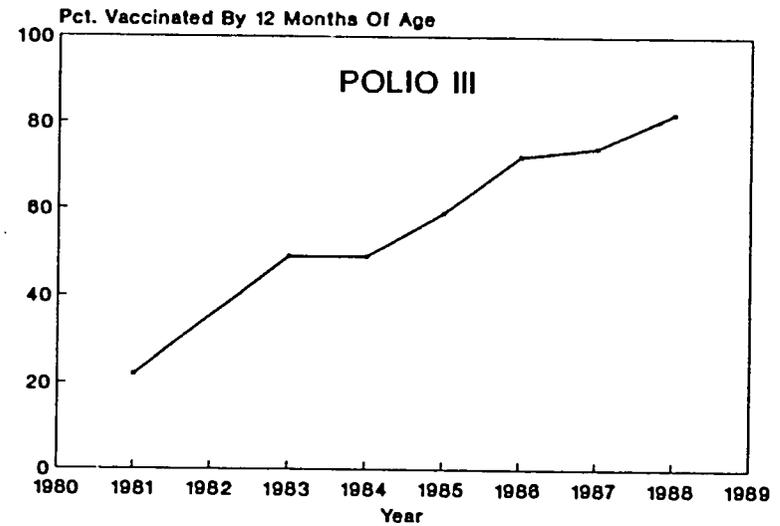
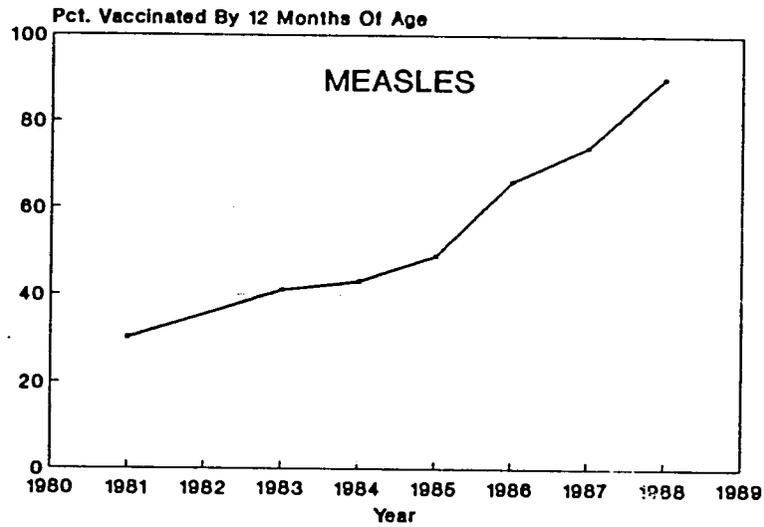
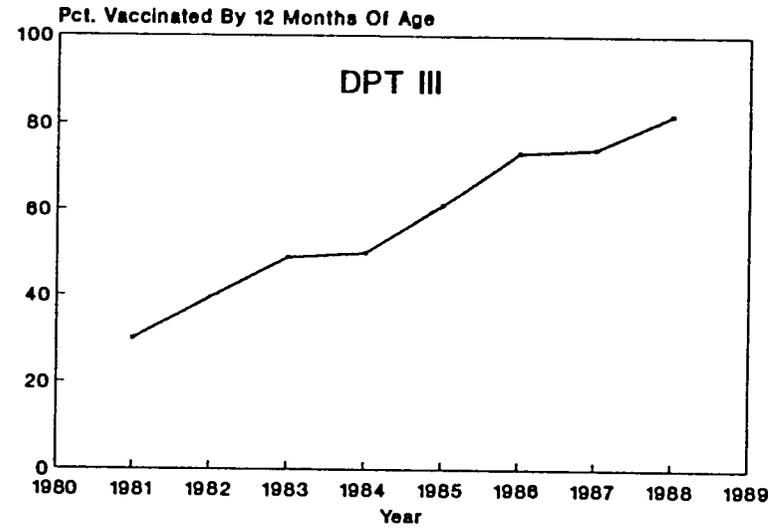
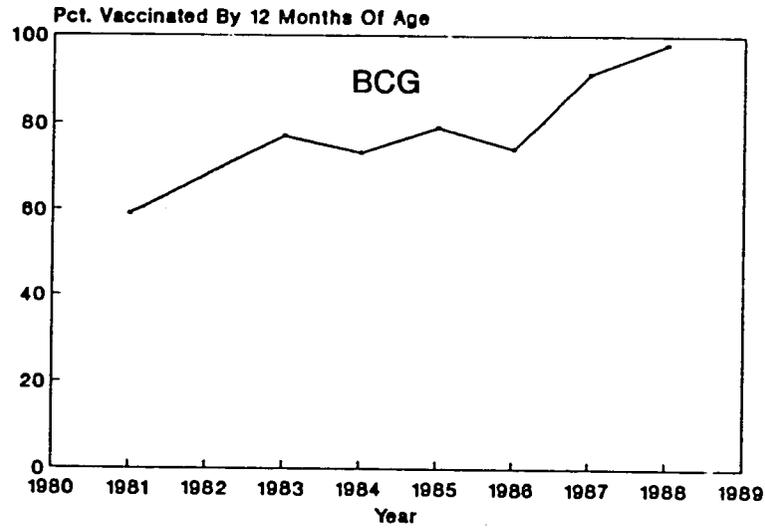


SOURCE: World Health Organization Annual Reports of the EPI Programme



SOURCE: United Nations, 1988
 1) World Population Prospects, and
 2) Mortality of Children Under Age 5

VACCINATION COVERAGE RATES IN SWAZILAND



SOURCE: WHO, Annual EPI Reports/1988, Nat'l Fam. Health Sur.

CIHI, ISTI; 3/90

TANZANIA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 26,343,000 | 1989 | A |
| Infant Mortality Rate | 103/1000 | 1989 | A |
| Life Expectancy At Birth | 54 Yrs | 1989 | A |
| Children Under Age 1 | 1,228,000 | 1989 | A |
| Annual Infant Deaths | 137,000 | 1989 | A |
| Total Fertility Rate | 7.1 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 93% | 1989 | B |
| DPT III | 85% | 1989 | B |
| Measles | 83% | 1989 | B |
| Polio III | 82% | 1989 | B |
| Tetanus II+ | 42% | 1989 | B |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 61% | 1985 | C |
| ORT Use Rate | 14% | 1986 | C |
| Contraceptive Prevalence (Modern) | 5-7% | 1988 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations. (According to the 1988 Census, the Total Population = 23,174,336 and according to the Ministry of Health, National Family Planning Programme, the Infant Mortality Rate was 115/1,000 as of January, 1989 as cited in the FY 1989 USAID Mission Response Form.)

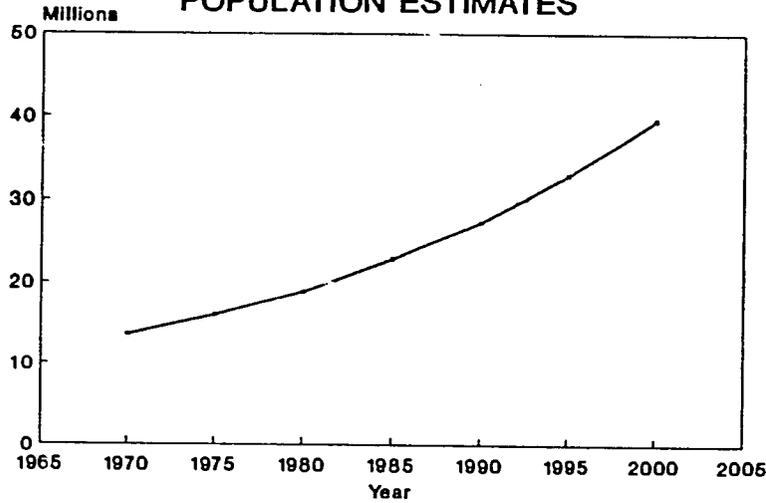
B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

D Ministry of Health, National Family Planning Programme, January, 1989 Plan of Operations as cited in the FY 1989 USAID Mission Response Form.

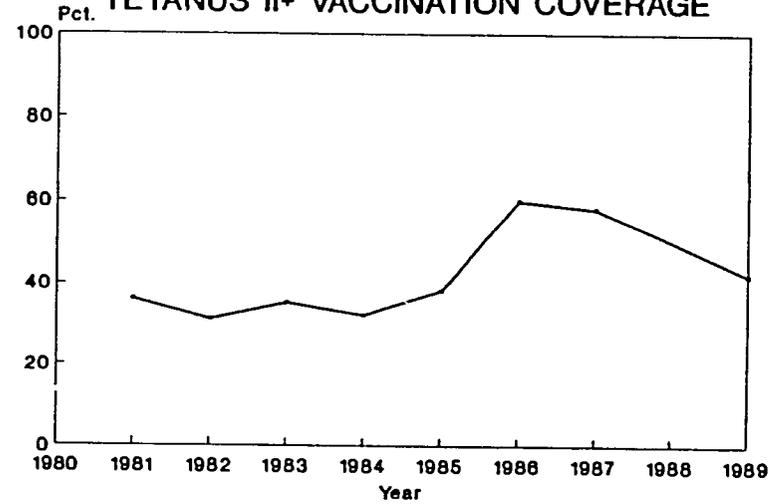
TANZANIA

POPULATION ESTIMATES



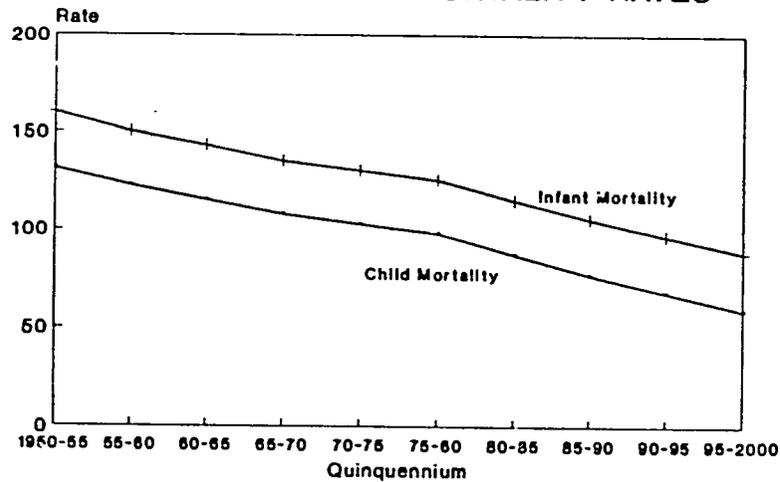
SOURCE: United Nations,
World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



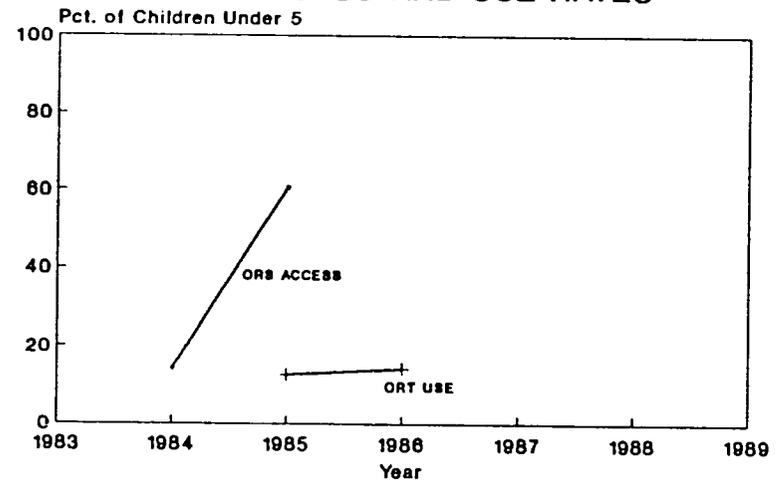
SOURCE: World Health Organization
Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



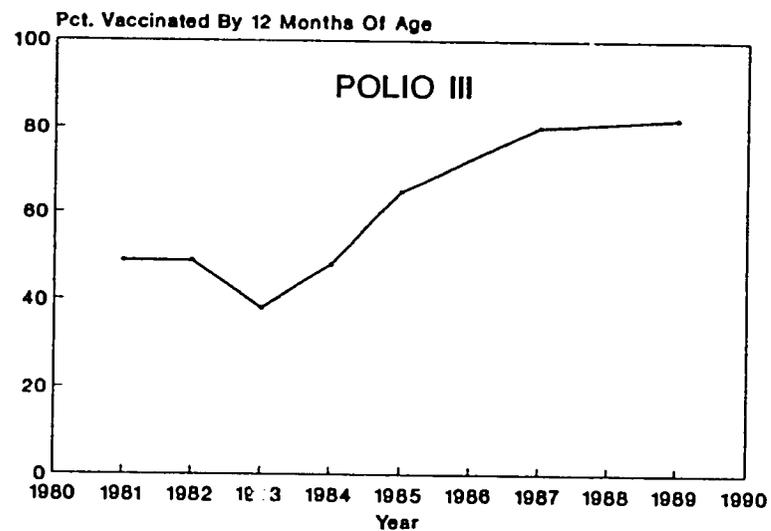
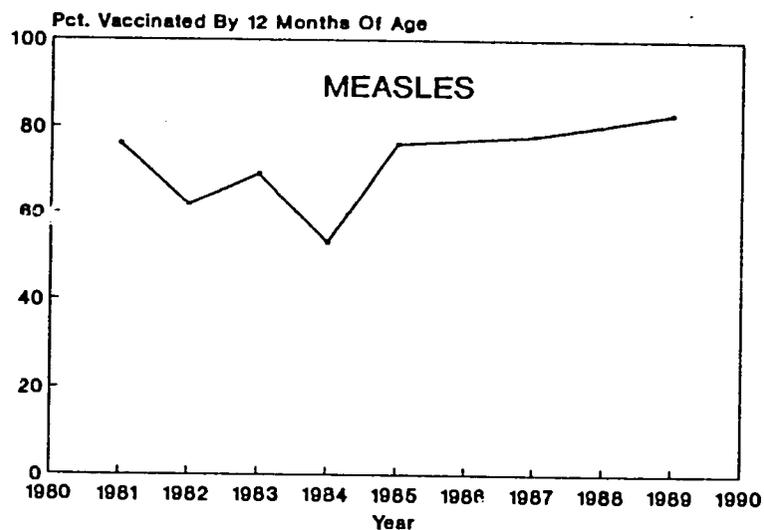
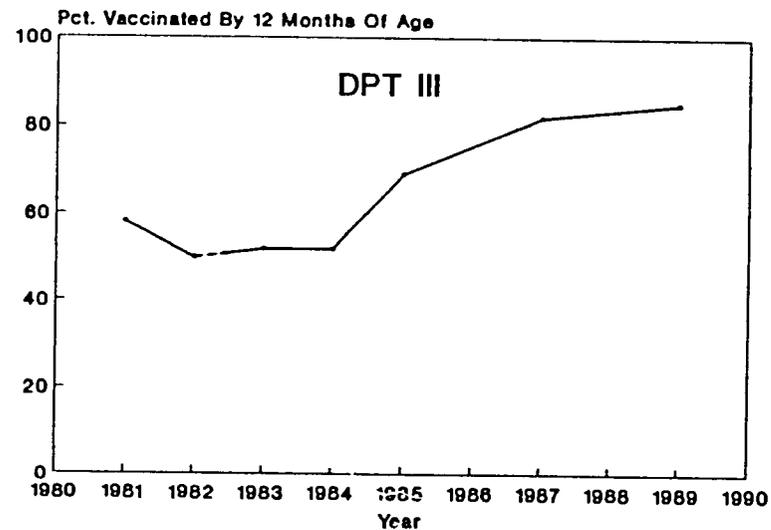
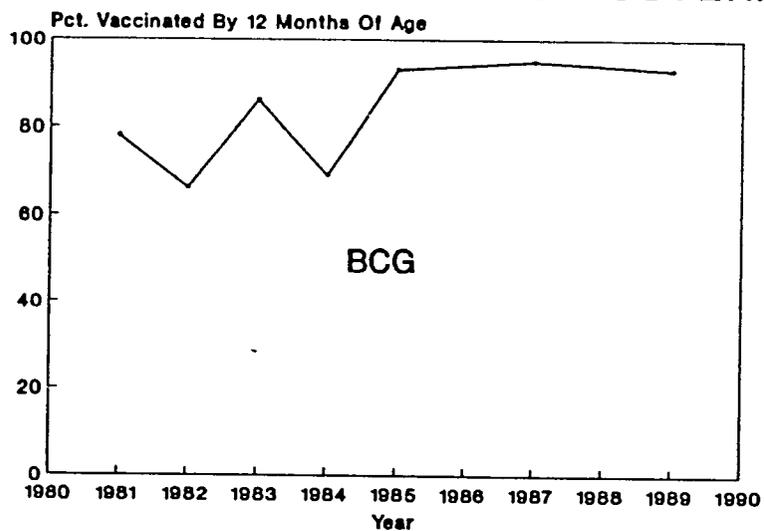
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN TANZANIA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

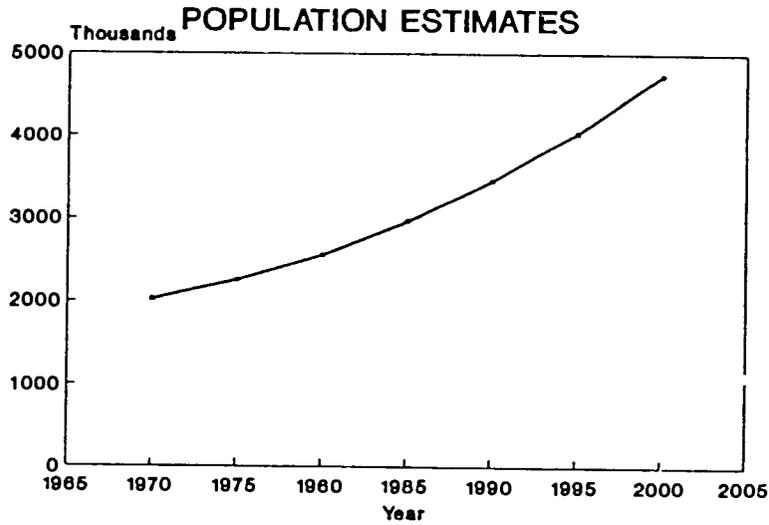
TOGO

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

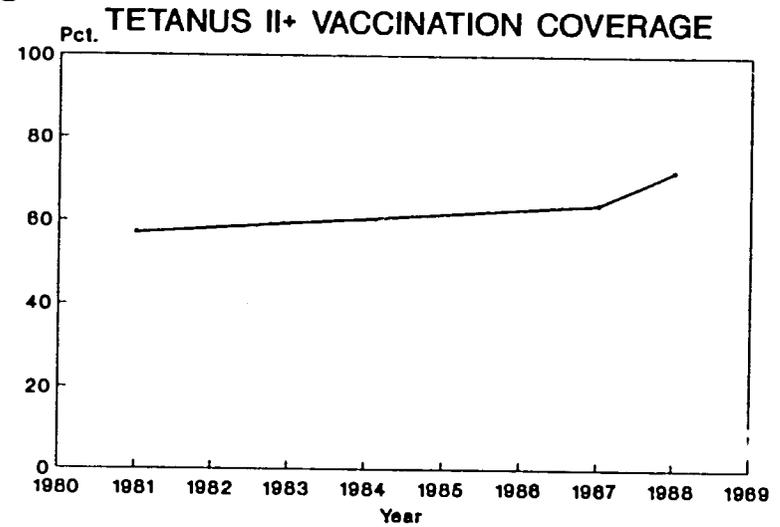
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 3,349,000 | 1989 | A |
| Infant Mortality Rate | 91/1000 | 1989 | A |
| Life Expectancy At Birth | 54 Yrs | 1989 | A |
| Children Under Age 1 | 140,000 | 1989 | A |
| Annual Infant Deaths | 14,000 | 1989 | A |
| Total Fertility Rate | 6.2 | 1988 | D |
| <u>Child Survival Indicators</u> | | | |
| <u>Immunization Coverage</u> | | | |
| BCG | 95% | 1988 | B |
| DPT III | 62% | 1988 | B |
| Measles | 74% | 1988 | B |
| Polio III | 60% | 1988 | B |
| Tetanus II+ | 72% | 1988 | B |
| <u>Oral Rehydration Therapy</u> | | | |
| ORS Access Rate | 56.0% | 1986 | C |
| ORT Use Rate | 21.0% | 1988 | D |
| Contraceptive Prevalence (Modern) | 3% | 1988 | D |
| Adequate Nutritional Status | 67% | 1988 | D |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 8% | 1988 | D |
| b) Introduction Of Solids | 84% | 1988 | D |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Enquête Démographique et de Santé au Togo, 1988, Unité de Recherche Démographique, Direction de la Statistique, Direction Générale de la Santé and Demographic and Health Surveys, Institute for Resource Development/Macro Systems, Inc. December, 1989.

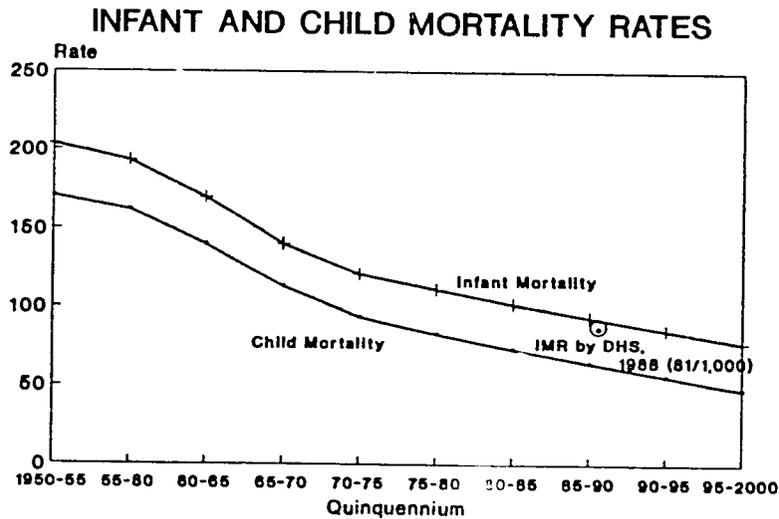
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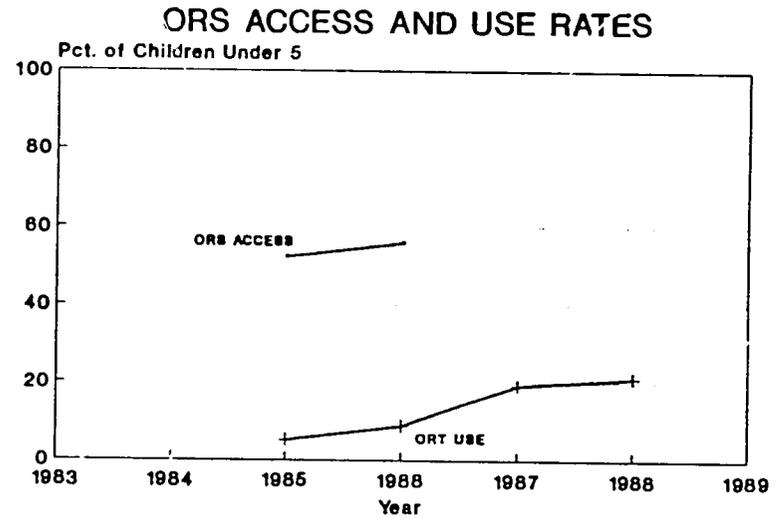
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: World Health Organization Annual Reports of the EPI Programme

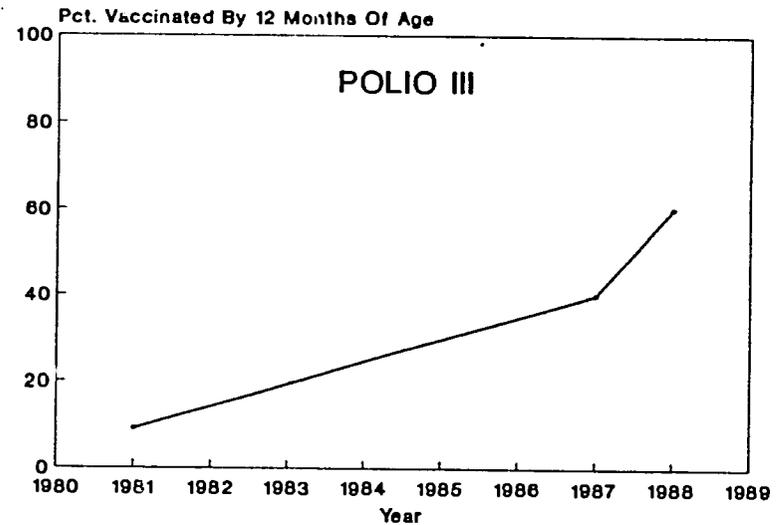
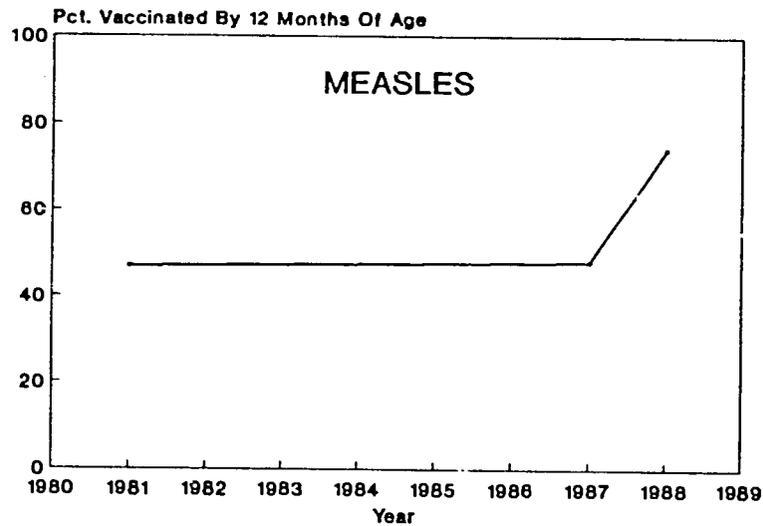
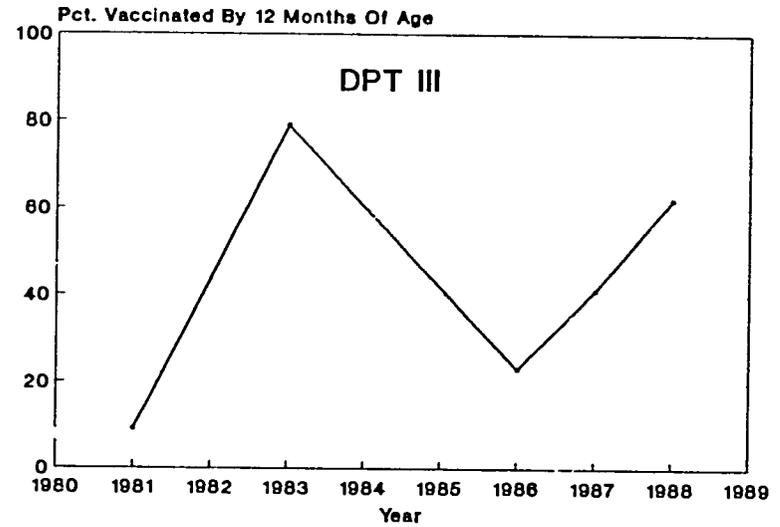
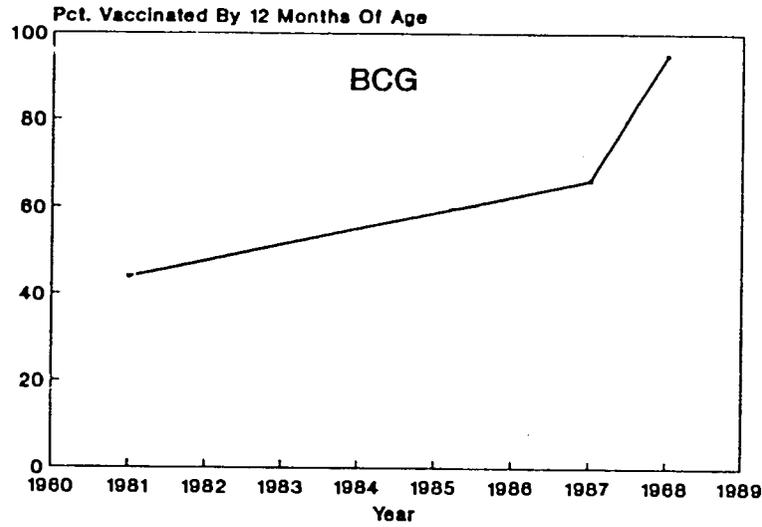


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the CDD Programme (1988 ORT Use Rate: DHS)

VACCINATION COVERAGE RATES IN TOGO



SOURCE: WHO, Annual Reports of the EPI Programme

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UGANDA

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 17,804,000 | 1989 | A |
| Infant Mortality Rate | 100/1000 | 1989 | A |
| Life Expectancy At Birth | 52 Yrs | 1989 | A |
| Children Under Age 1 | 825,000 | 1989 | A |
| Annual Infant Deaths | 89,000 | 1989 | A |
| Total Fertility Rate | 6.9 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | 83% | 1989 | B |
| BCG | 47% | 1989 | B |
| DPT III | 52% | 1989 | B |
| Measles | 48% | 1989 | B |
| Polio III | 17% | 1989 | B |
| Tetanus II+ | | | |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 48% | 1988 | C |
| ORT Use Rate | 14% | 1988 | C |
| Contraceptive Prevalence | 2.7% | 1988/89 | D |
| Adequate Nutritional Status | 68% | 1988/89 | D |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 63% | 1988/89 | D |
| b) Introduction Of Solids | 74% | 1988/89 | D |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

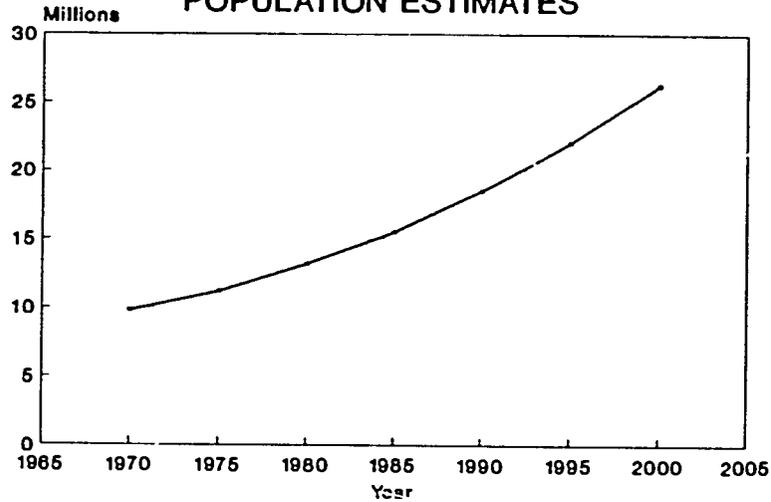
B Six District, 30 Cluster Surveys, July, 1989 as cited in the FY 1989 USAID Mission Response Form.

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

D Demographic and Health Survey, 1988/89, Ministry of Health and Demographic and Health Surveys, Institute for Resource Development/Macro Systems, Inc., October, 1989.

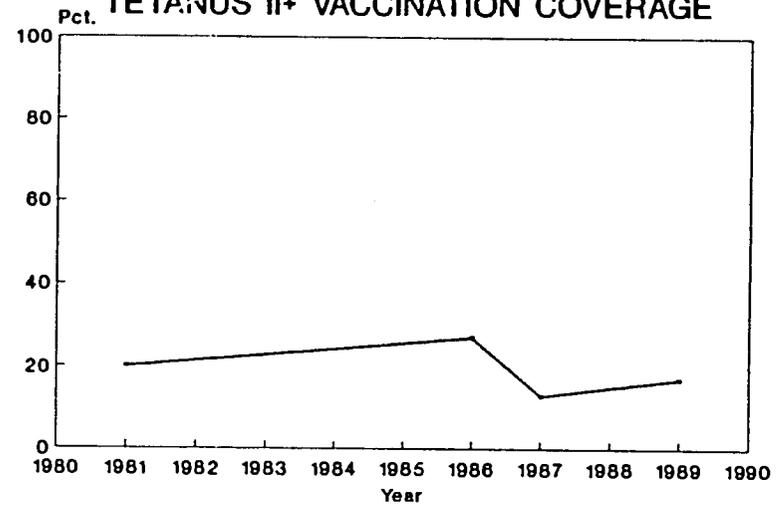
UGANDA

POPULATION ESTIMATES



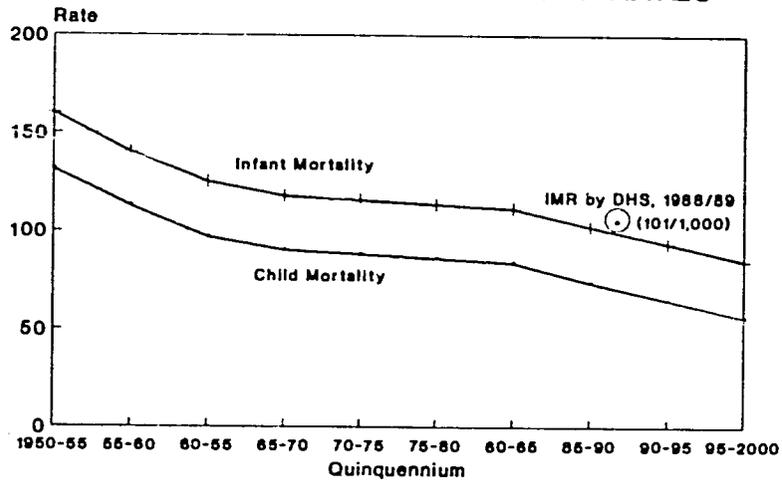
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



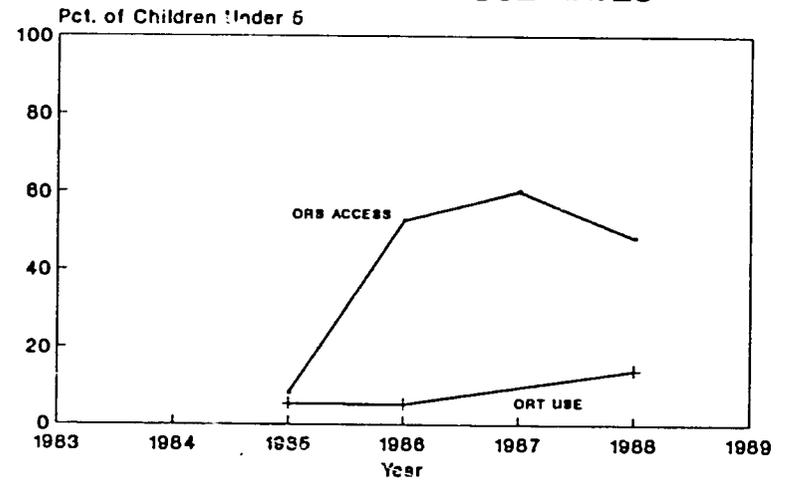
SOURCE: WHO Annual EPI Reports
1988: 6 District, 30 Cluster Surv., 7/89

INFANT AND CHILD MORTALITY RATES



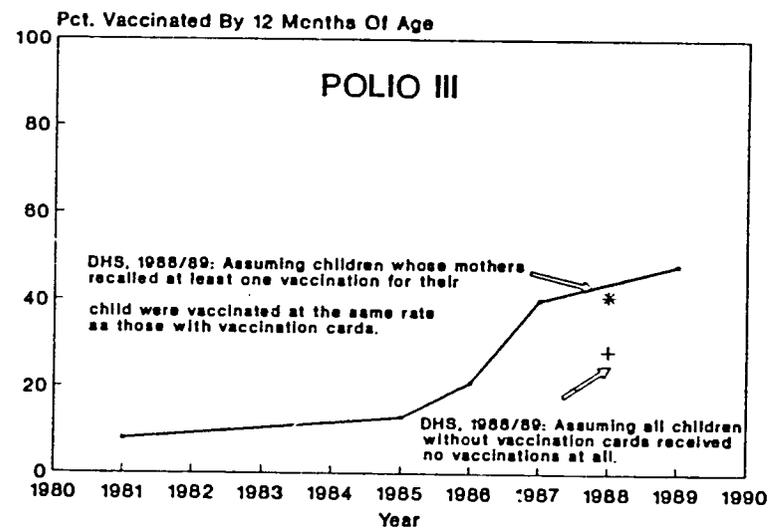
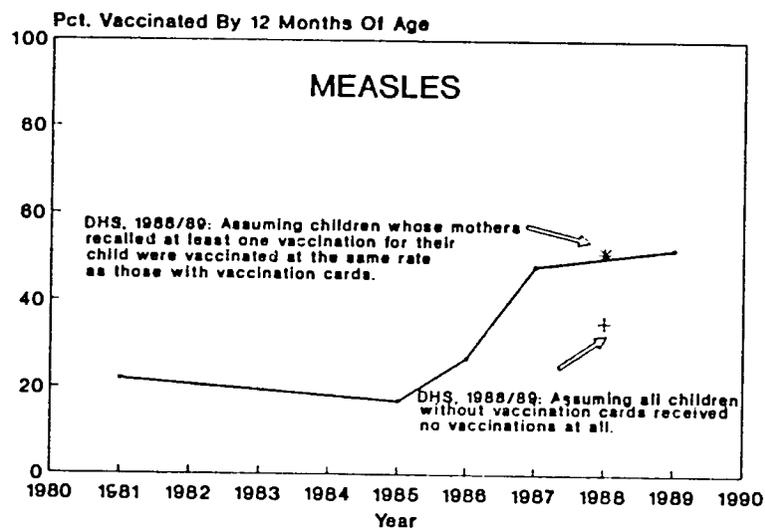
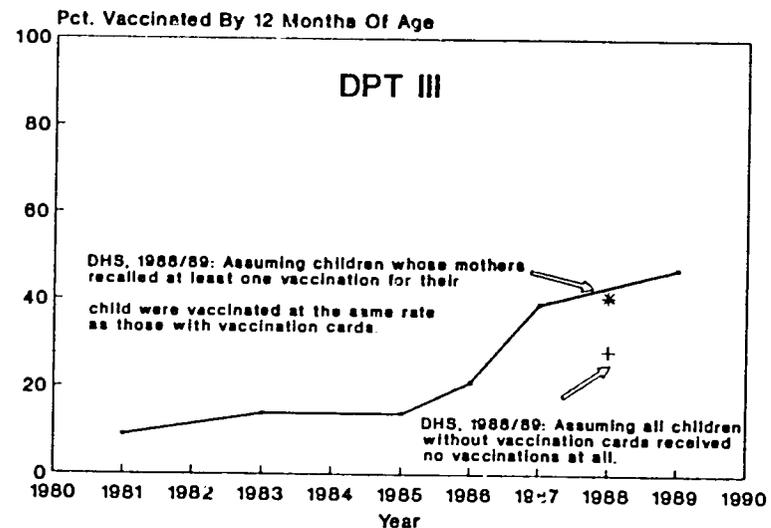
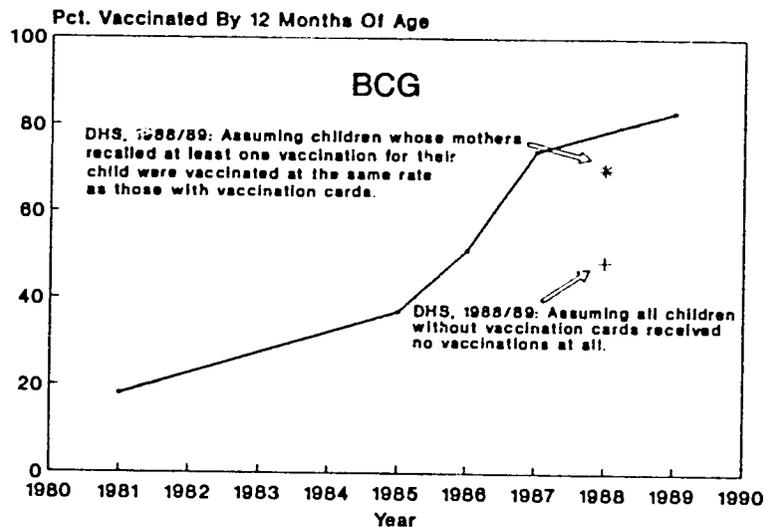
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN UGANDA



SOURCE: WHO, Annual EPI Reports/1989, 6 District Survey

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ZAIRE

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

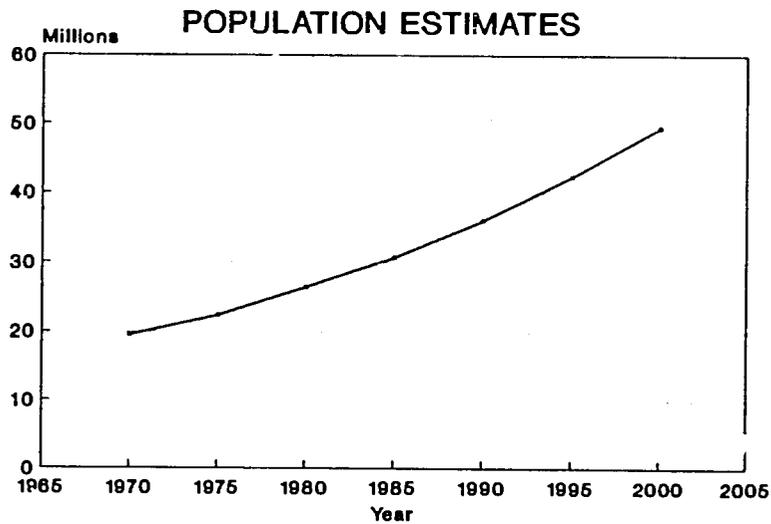
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 34,853,000 | 1989 | A |
| Infant Mortality Rate | 96/1000 | 1989 | A |
| Life Expectancy At Birth | 53 Yrs | 1989 | A |
| Children Under Age 1 | 1,473,000 | 1989 | A |
| Annual Infant Deaths | 151,000 | 1989 | A |
| Total Fertility Rate | 6.1 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 58% | 1988 | B |
| DPT III | 41% | 1988 | B |
| Measles | 44% | 1988 | B |
| Polio III | 41% | 1988 | B |
| Tetanus II+ | 43% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 48% | 1988 | C |
| ORT Use Rate | 18% | 1988 | C |
| Contraceptive Prevalence | N/A | | |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.

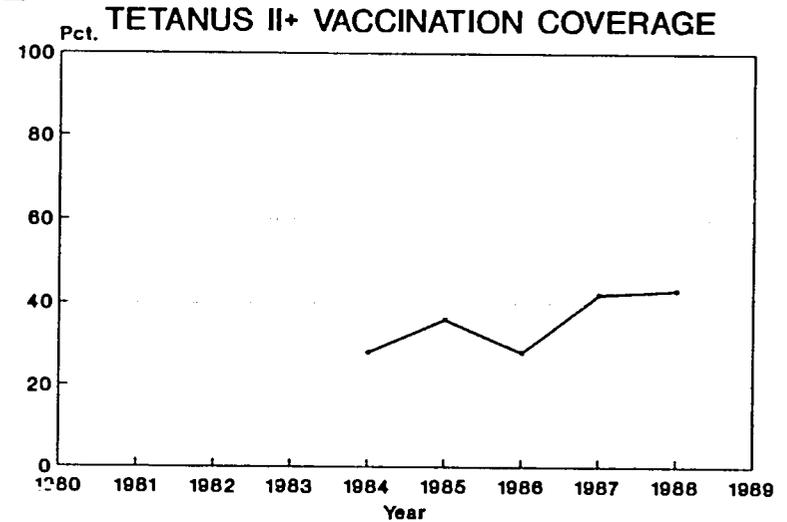
B ACSI-CCCD Project Report, 1988 (as subsequently updated in Project Implementation Report).

C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).

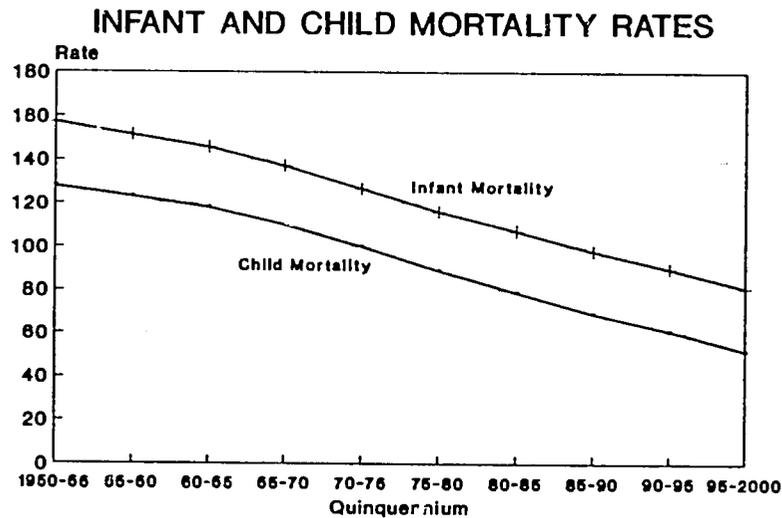
ZAIRE



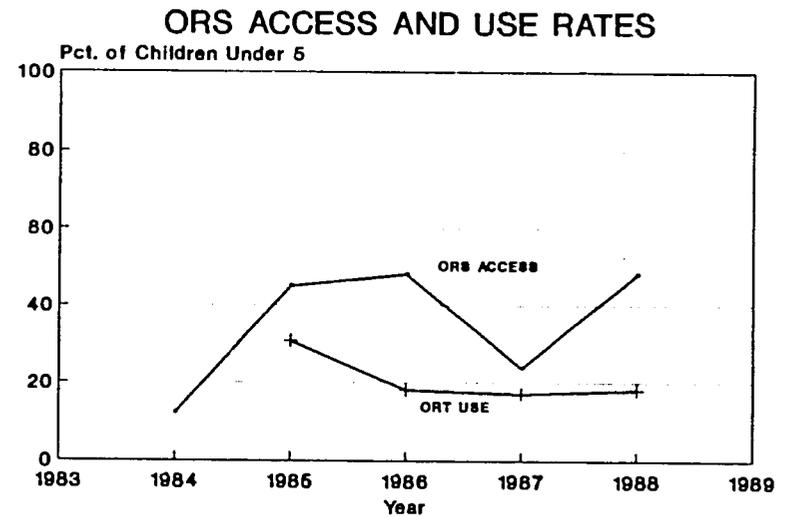
SOURCE: United Nations, World Population Prospects, 1988



SOURCE: WHO, EPI Reports/1987, Nat'l EPI Rep./1988, ASCI-CCCD Project Rep., 1988

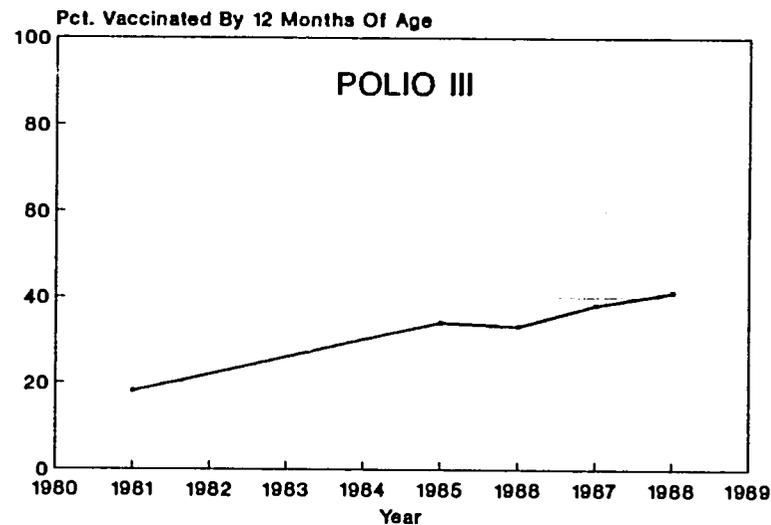
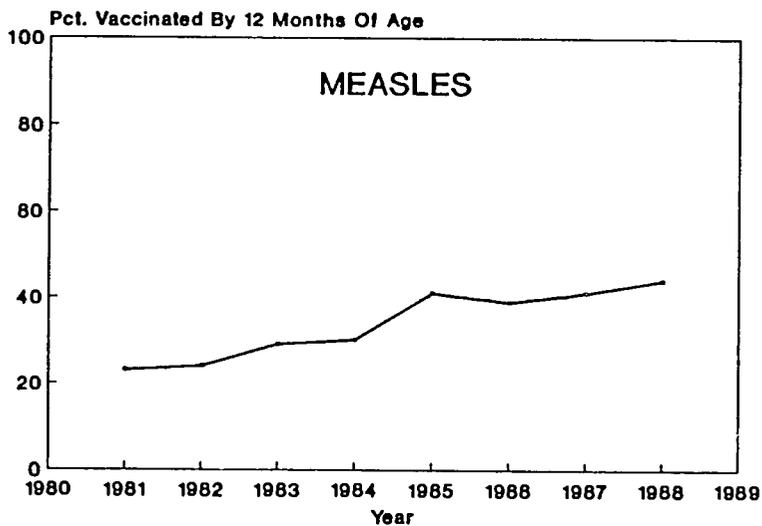
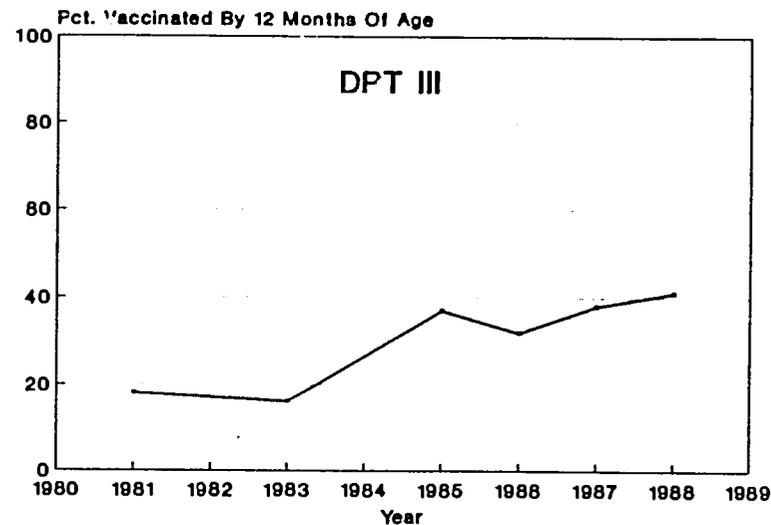
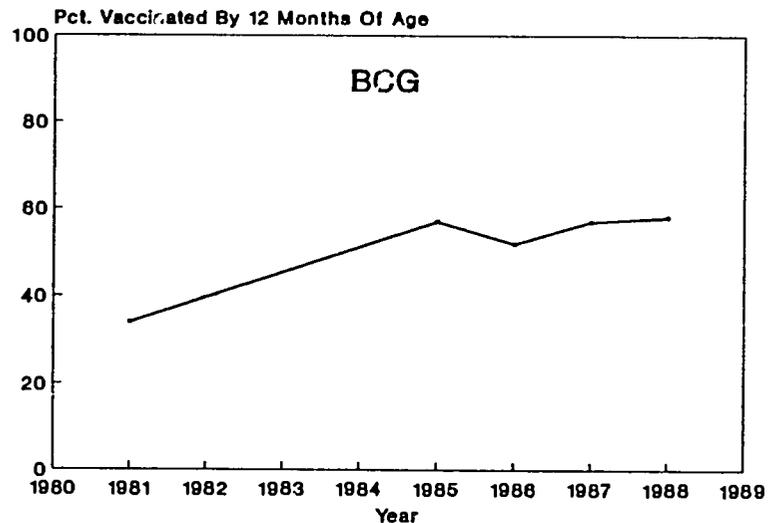


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN ZAIRE



SOURCE: WHO, EPI Reports/'87, Nat'l EPI Rep./'88, ASCI-CCCD Rep.

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ZAMBIA

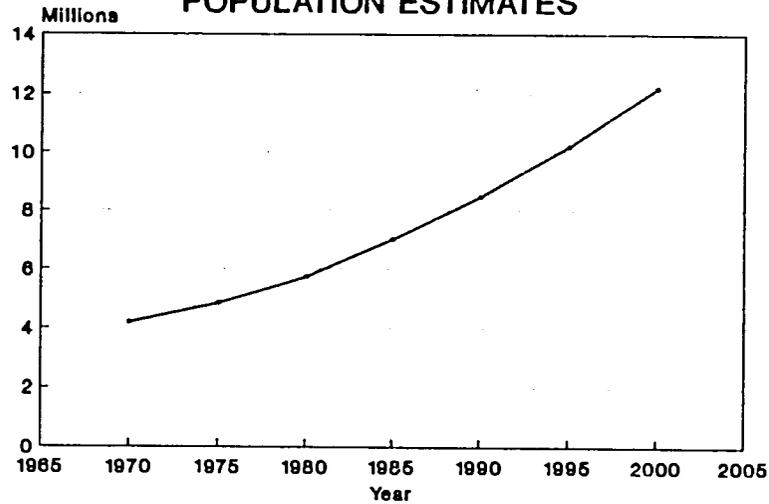
THE MOST CURRENT VALUES FOR SELECTED INDICATORS

| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|----------------------------------|--------------|-------------|---------------|
| Total Population | 8,148,000 | 1989 | A |
| Infant Mortality Rate | 78/1000 | 1989 | A |
| Life Expectancy At Birth | 54 Yrs | 1989 | A |
| Children Under Age 1 | 390,000 | 1989 | A |
| Annual Infant Deaths | 32,000 | 1989 | A |
| Total Fertility Rate | 7.1 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 97% | 1988 | B |
| DPT III | 84% | 1988 | B |
| Measles | 80% | 1988 | B |
| Polio III | 81% | 1988 | B |
| Tetanus II+ | 41% | 1986 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 74% | 1987 | C |
| ORT Use Rate | 59% | 1987 | C |
| Contraceptive Prevalence | 1% | 1977 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | N/A | | |
| b) Introduction Of Solids | N/A | | |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Ross, John A., et. al., Family Planning and Child Survival: 100 Developing Countries, 1988, Columbia University.

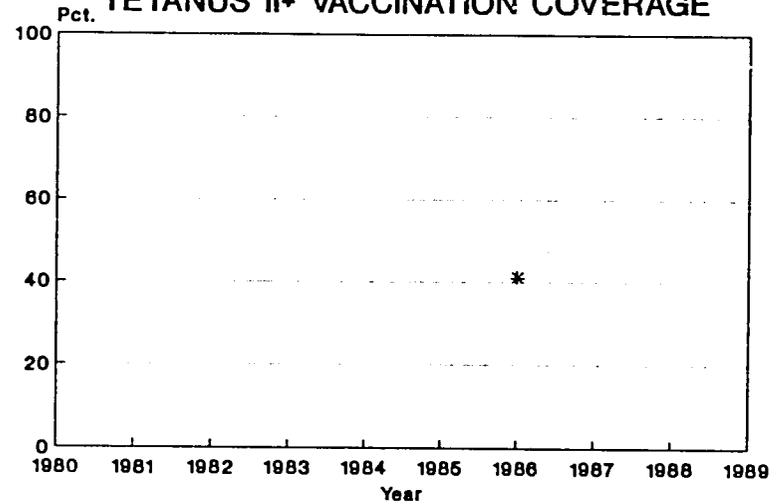
ZAMBIA

POPULATION ESTIMATES



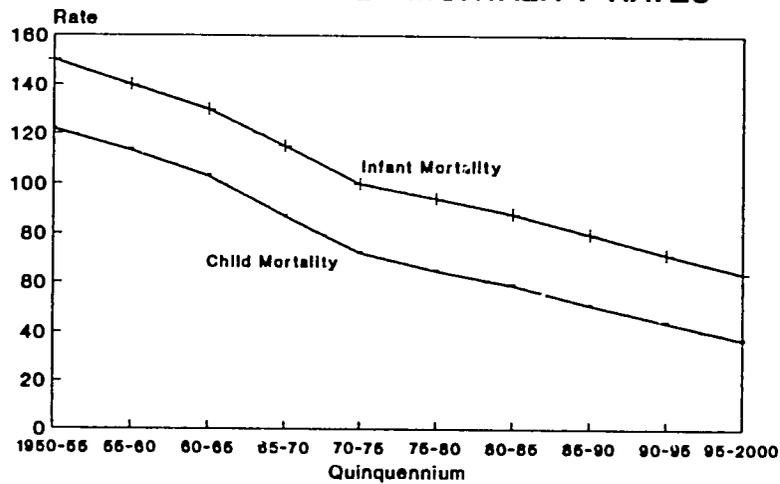
SOURCE: United Nations, World Population Prospects, 1988

TETANUS II+ VACCINATION COVERAGE



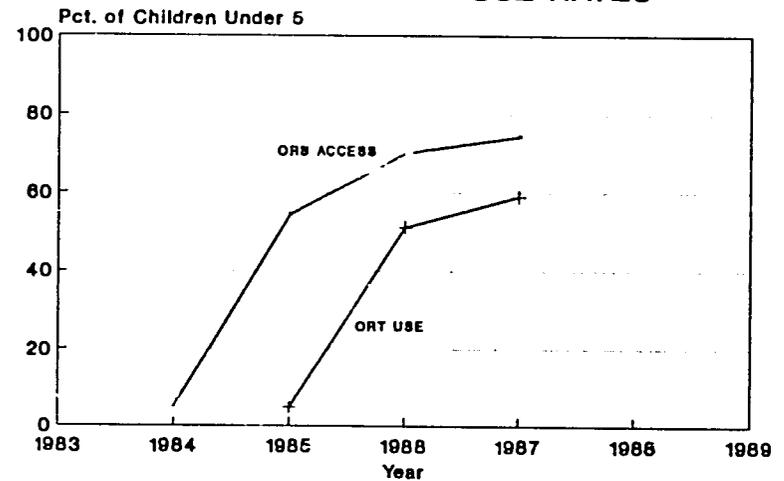
SOURCE: World Health Organization Annual Reports of the EPI Programme

INFANT AND CHILD MORTALITY RATES



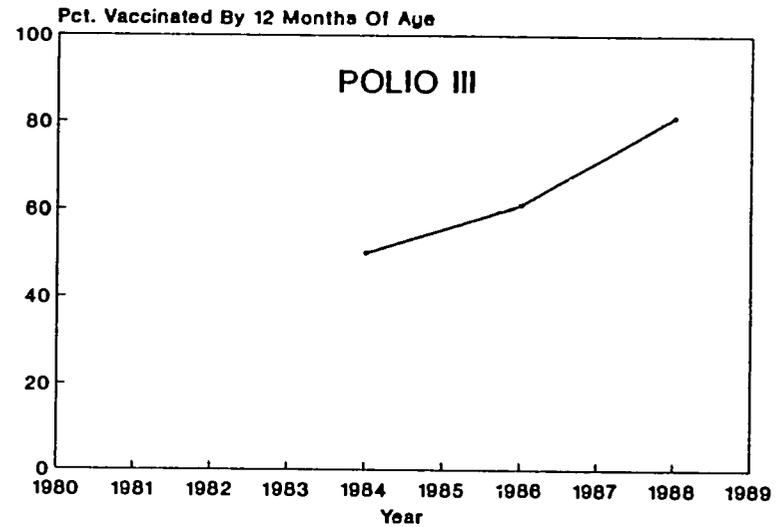
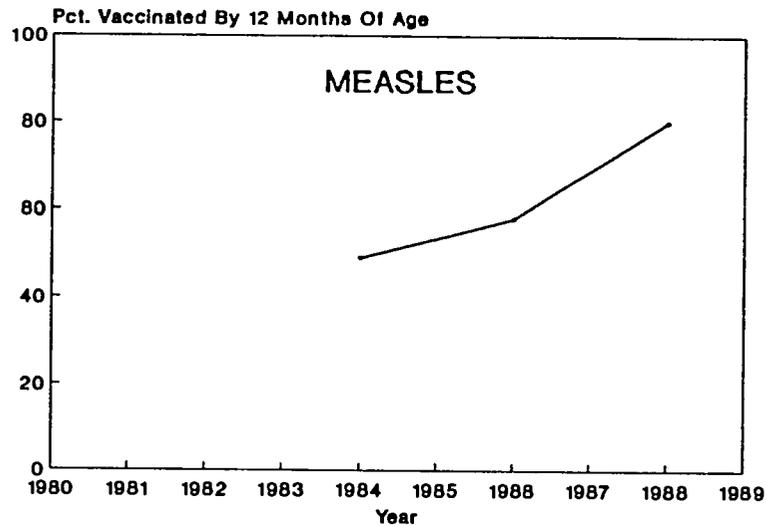
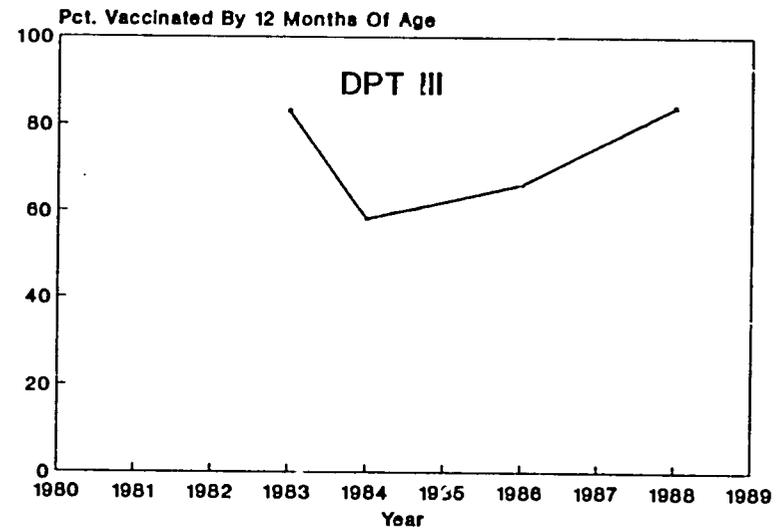
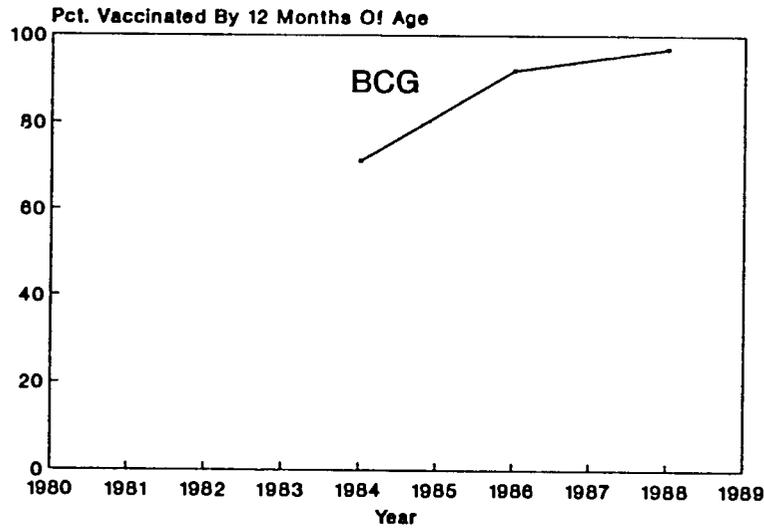
SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5

ORS ACCESS AND USE RATES



SOURCE: World Health Organization, Annual Reports of the Programme for Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN ZAMBIA



SOURCE: WHO, Annual Reports of the EPI Programme

CIHI, ISTI; 3/90

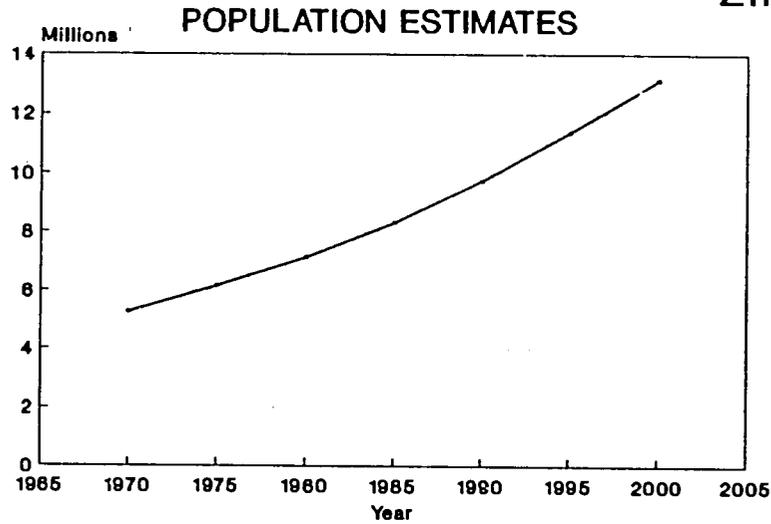
ZIMBABWE

THE MOST CURRENT VALUES FOR SELECTED INDICATORS

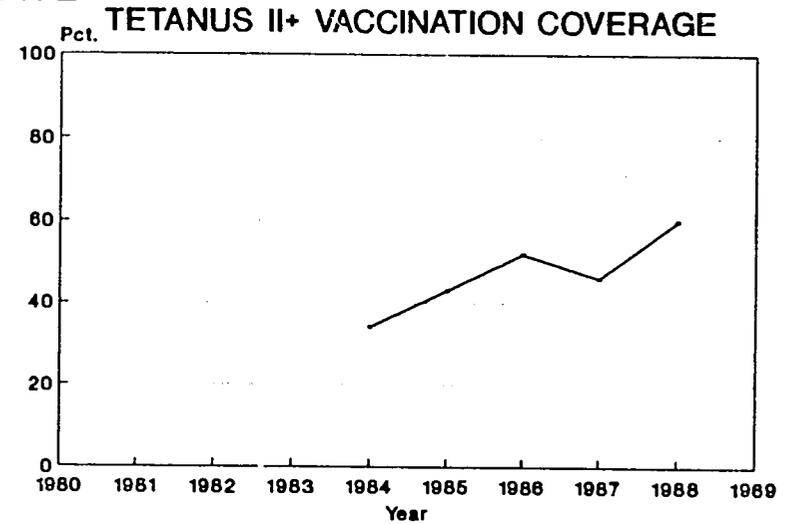
| <u>Demographic Indicators</u> | <u>Value</u> | <u>Year</u> | <u>Source</u> |
|-----------------------------------|--------------|-------------|---------------|
| Total Population | 9,419,000 | 1989 | A |
| Infant Mortality Rate | 70/1000 | 1989 | A |
| Life Expectancy At Birth | 59 Yrs | 1989 | A |
| Children Under Age 1 | 369,000 | 1989 | A |
| Annual Infant Deaths | 27,000 | 1989 | A |
| Total Fertility Rate | 5.6 | 1989 | A |
| <u>Child Survival Indicators</u> | | | |
| Immunization Coverage | | | |
| BCG | 97% | 1988 | B |
| DPT III | 79% | 1988 | B |
| Measles | 83% | 1988 | B |
| Polio III | 78% | 1988 | B |
| Tetanus II+ | 60% | 1988 | B |
| Oral Rehydration Therapy | | | |
| ORS Access Rate | 70% | 1988 | C |
| ORT Use Rate | 26% | 1986 | C |
| Contraceptive Prevalence (Modern) | 36% | 1988 | D |
| Adequate Nutritional Status | N/A | | |
| Appropriate Infant Feeding | N/A | | |
| a) Exclusive Breastfeeding | 9% | 1988 | D |
| b) Introduction Of Solids | 88% | 1988 | D |
| Median Duration Of Breastfeeding | N/A | | |

- A World Population Prospects: 1988, prepared by the Estimates and Projections Section of the Population Division of the Department of International Economic and Social Affairs, United Nations.
- B World Health Organization Expanded Programme on Immunization, Report WHO/EPI/CEIS/90.1, January, 1990.
- C World Health Organization, Diarrhoeal Disease Control Programme, Estimates of ORS Access and ORS/ORT Use Rates By Country and Region, 1988 (Table transmitted on facsimile dated 3/27/90).
- D Demographic and Health Survey, 1988, Demographic and Health Surveys, Institute for Resource Development/Macro Systems, Inc.

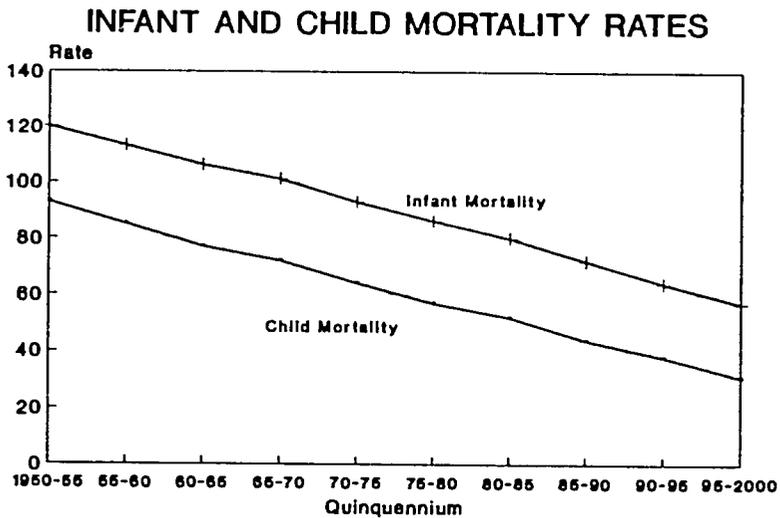
ZIMBABWE



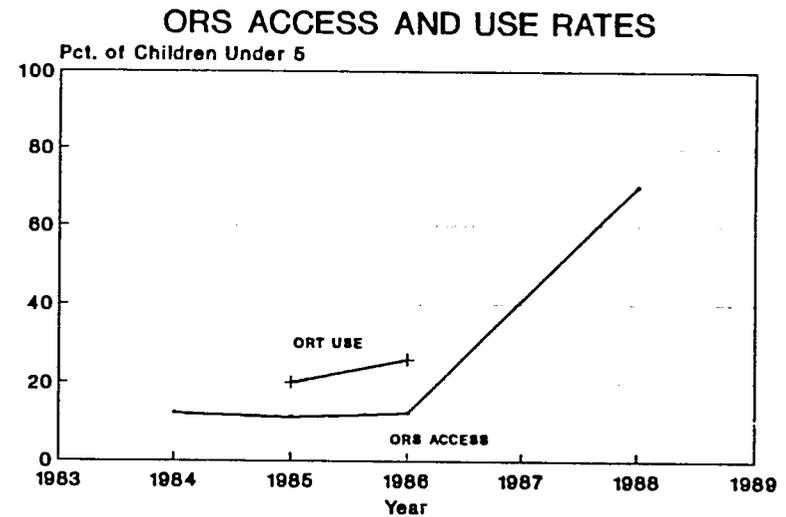
SOURCE: United Nations,
World Population Prospects, 1988



SOURCE: World Health Organization
Annual Reports of the EPI Programme

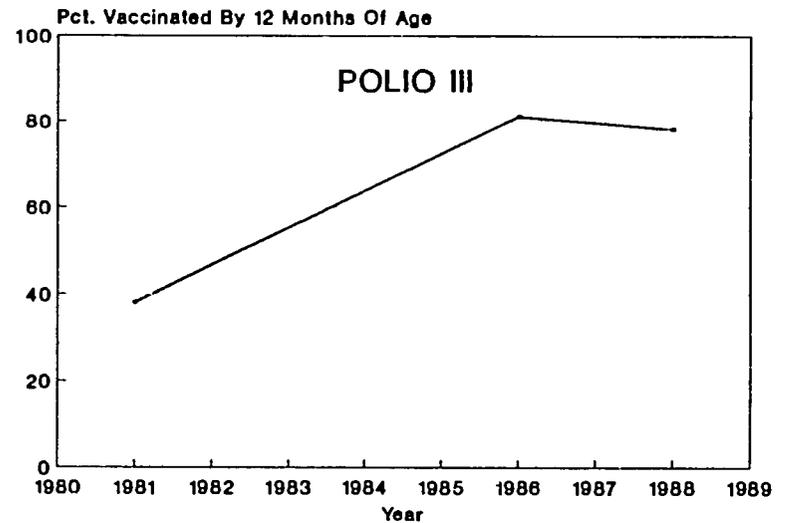
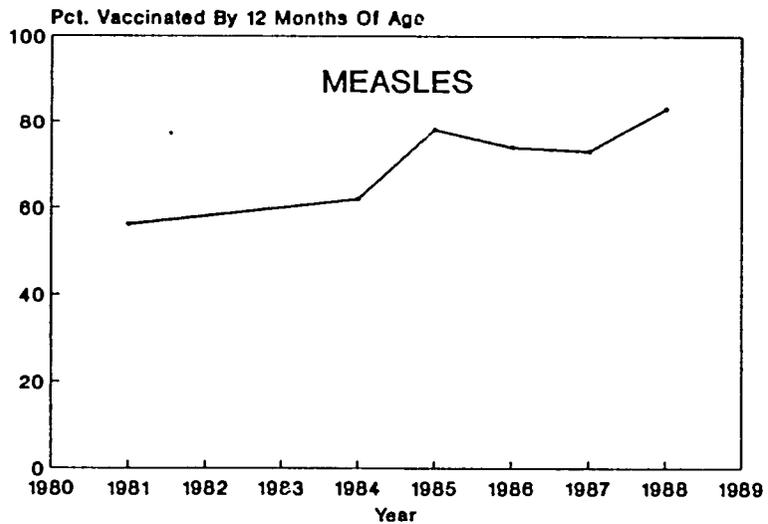
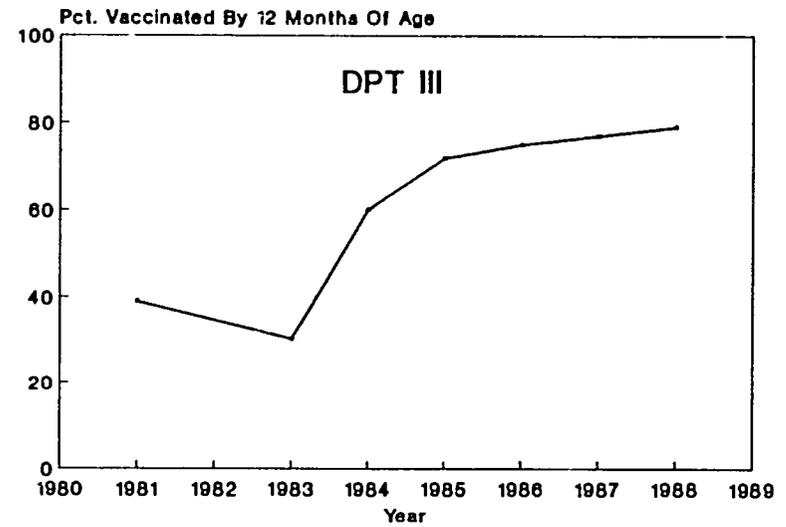
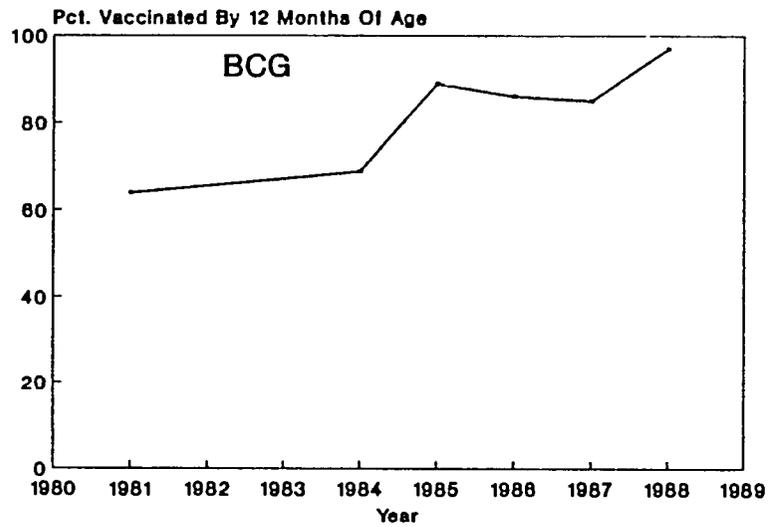


SOURCE: United Nations, 1988
1) World Population Prospects, and
2) Mortality of Children Under Age 5



SOURCE: World Health Organization,
Annual Reports of the Programme for
Control of Diarrhoeal Diseases

VACCINATION COVERAGE RATES IN ZIMBABWE



SOURCE: WHO, Annual Reports of the EPI Programme

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