

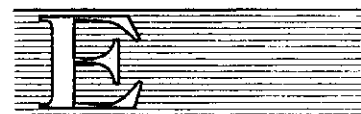


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ECONOMIC AND SOCIAL COUNCIL**

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on Sustainable Development

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**AFRICA: DEMOGRAPHIC, ENVIRONMENTAL AND AGRICULTURAL
INDICATORS**

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OF THE
ECONOMIC COMMISSION FOR AFRICA**

(as of December 1998)

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| 2. Angola | 47. Swaziland |
| 3. Benin | 48. Togo |
| 4. Botswana | 49. Tunisia |
| 5. Burkina Faso | 50. Uganda |
| 6. Burundi | 51. United Republic of Tanzania |
| 7. Cameroon | 52. Zambia |
| 8. Cape Verde | 53. Zimbabwe |
| 9. Central African Republic | |
| 10. Chad | |
| 11. Comoros | |
| 12. Congo | |
| 13. Côte d'Ivoire | |
| 14. Democratic Republic of the Congo | |
| 15. Djibouti | |
| 16. Egypt | |
| 17. Equatorial Guinea | |
| 18. Eritrea | |
| 19. Ethiopia | |
| 20. Gabon | |
| 21. Gambia | |
| 22. Ghana | |
| 23. Guinea | |
| 24. Guinea-Bissau | |
| 25. Kenya | |
| 26. Lesotho | |
| 27. Liberia | |
| 28. Libyan Arab Jamahiriya | |
| 29. Madagascar | |
| 30. Malawi | |
| 31. Mali | |
| 32. Mauritania | |
| 33. Mauritius | |
| 34. Morocco | |
| 35. Mozambique | |
| 36. Namibia | |
| 37. Niger | |
| 38. Nigeria | |
| 39. Rwanda | |
| 40. Sao Tome and Principe | |
| 41. Senegal | |
| 42. Seychelles | |
| 43. Sierra Leone | |
| 44. Somalia | |
| 45. South Africa | |

ECA's SUB-REGIONAL DEVELOPMENT CENTERS (SRDCs)¹

I. SRDC EA

1. Burundi
2. Comoros
3. Djibouti
4. Eritrea
5. Ethiopia
6. Kenya
7. Madagascar
8. Rwanda
9. Seychelles
10. Somalia
11. Uganda
12. United Republic of Tanzania

II. SRDC CA

1. Cameroon
2. Central African Republic
3. Chad
4. Congo
5. Democratic Republic of the Congo
6. Equatorial Guinea
7. Gabon
8. Sao Tome and Principe

III. SRDC NA

1. Algeria
2. Egypt
3. Libyan Arab Jamahiriya
4. Mauritania
5. Morocco
6. Sudan
7. Tunisia

IV. SRDC SA

1. Angola
2. Botswana
3. Lesotho
4. Malawi
5. Mauritius
6. Mozambique
7. Namibia
8. South Africa
9. Swaziland
10. Zambia
11. Zimbabwe

V. SRDC WA

1. Benin
2. Burkina Faso
3. Cape Verde
4. Côte d'Ivoire
5. Gambia
6. Ghana
7. Guinea
8. Guinea-Bissau
9. Liberia
10. Mali
11. Niger
12. Nigeria
13. Senegal
14. Sierra Leone
15. Togo

¹ The Sub-Regional Development Centers are operational divisions of the ECA in the field. The countries are listed according to the coverage of SRDCs.

ACRONYMS AND ABBREVIATIONS

| | |
|-----------------|--|
| AC | Codex Alimentarius Commission |
| ACC | Administrative Committee on Coordination |
| ACMAD | African Centre of Meteorological Applications for Development |
| ACPC | Association of Coffee Producing Countries |
| ACW | African Centre for Women |
| ADB | African Development Bank |
| ADI | African Development Indicators |
| AIDS | Acquired immunodeficiency syndrome |
| BOD | Biological oxygen demand |
| CAP | Common Agricultural Policy |
| CBR | Crude birth rate |
| CDIAC | Carbon Dioxide Information Analysis Center |
| CDR | Crude death rate |
| CO ₂ | Carbon dioxide |
| COMESA | Common Market for East and Southern Africa |
| CPI | Consumer Price Index |
| CSD | Commission on Sustainable Development (or Committee on Sustainable Development) |
| DAC | Development Assistance Committee |
| DES | Dietary Energy Supply |
| DHS | Demographic and Health Surveys |
| DMSP | Defense Meteorological Satellite Program |
| DND | Dakar-Ngor Declaration |
| EAC | East African Community |
| ECA | United Nations Economic Commission for Africa |
| ECE | United Nations Economic Commission for Europe |
| ECGL | Economic and Monetary Community of the Great Lakes' States |
| ECLAC | United Nations Economic Commission for Latin America and the Caribbean |
| ECOSOC | United Nations Economic and Social Council |
| ECOWAS | Economic Community of West African States |
| EDI | Economic Development Institute of the world Bank |
| EEA | European Environment Agency |
| EHDAES | Economies highly dependent on agricultural exports |
| ERSAP | Economic Reform and Structural Adjustment Programme |
| ESAF | Enhanced Structural Adjustment Facility |
| ESCAP | United Nations Economic and Social Commission for Asia and the Pacific |
| ESCWA | United Nations Economic and Social Commission for Western Asia |
| FAC | Food Aid Convention |
| FAO | United Nations Food and Agricultural Organisation |
| FDI | Foreign direct investment |
| FSSDD | Food Security and Sustainable Development Division / UNECA |
| G77 | Group of '77' (Negotiating group of over 100 developing countries) |
| GDP | Gross domestic product |
| GEF | Global Environmental Facility |
| GEMS | Global Environmental Monitoring System of UNEP |
| GNP | Gross national product |
| HA | Hectare |

| | |
|-----------------|--|
| Habitat | United Nations Center for Human Settlements |
| HDI | Human Development Index |
| HDR | Human Development Report |
| HG | Hectogram |
| HIPCs | Heavily indebted poor countries |
| HIV | Human immunodeficiency virus |
| HYVs | High-yielding varieties |
| IAEA | International Atomic Energy Agency |
| IBRD | International Bank for Reconstruction and Development (World Bank) |
| ICPD | International Conference on Population and Development |
| IEFR | International Emergency Food Reserve |
| IFPRI | International Food Policy Research Institute |
| IIED | International Institute for Environment and Development |
| ILO | International Labour Office |
| IMR | Infant mortality rate |
| IPCC | Intergovernmental Panel on Climate Change |
| ISIC | International Standard Industrial Classification of All Economic Activities |
| ISIS | International Species Information System |
| IUCN | World Conservation Union |
| LDCs | Least Developed Countries |
| LDR | Less Developed Region |
| LIFDCs | Low-income food-deficit countries |
| MAU | Maghreb Arab Union |
| MT | Metric ton |
| NASA | National Aeronautics and Space Administration |
| NGO | Non-governmental organisation |
| NIEs | Newly industrializing economies |
| NO ₂ | Nitrogen dioxide |
| NOAA | National Oceanic and Atmospheric Administration |
| NRDC | Natural Resources Defense Council |
| ODA | Official Development Assistance |
| OECD | Organisation for Economic Cooperation and Development |
| OMVS | Senegal River Basin Development Organisation |
| ORT | Oral rehydration therapy |
| OXFAM | Oxford Committee for Famine Relief |
| PEDA | Population, Environment, Development and Agriculture |
| PM-10 | Black smoke and particulate matter |
| PPP | Purchasing Power Parity |
| PRB | Population Reference Bureau |
| PrepCom | Preparatory Committee |
| SACU | Southern African Customs Union |
| SADC | Southern African Development Community |
| SARD | Sustainable Agriculture and Rural Development |
| SNA | System of National Accounts |
| SO ₂ | Sulfur dioxide |
| SRDCs | Sub-Regional Development Centers (ECA) |
| SRDC-CA | Sub-Regional Development Center for Central Africa (Yaoundé, Cameroon) |
| SRDC-EA | Sub-Regional Development Center for Eastern Africa (Kigali, Rwanda) |
| SRDC-NA | Sub-Regional Development Center for Northern Africa (Tangiers, Morocco) |
| SRDC-SA | Sub-Regional Development Center for Southern Africa (Lusaka, Zambia) |

| | |
|---------|--|
| SRDC-WA | Sub-Regional Development Center <i>for Western Africa</i> (Niamey, Niger) |
| TFR | Total fertility rate |
| TSP | Total Suspended Particulates |
| UNCED | United Nations Conference on Environment and Development |
| UNCHS | United Nations Centre for Human Settlements |
| UNCTAD | United Nations Conference on Trade and Development |
| UNCTC | United Nations Centre on Transnational Corporations |
| UNDP | United Nations Development Programme |
| UNEP | United Nations Environment Programme |
| UNFPA | United Nations Population Fund |
| UNICEF | United Nations Children's Fund |
| UNPAERD | United Nations Priority Programme for African Economic Recovery and Development |
| UNPD | United Nations Population Division |
| UNSD | United Nations Statistical division |
| USAID | United States Agency for International Development |
| USGS | United States Geological Survey |
| WAEMU | West African Economic and Monetary Union |
| WCMC | World Conservation Monitoring Center |
| WFP | World Food Programme |
| WHO | World Health Organization |
| WRI | World Resources Institute |

I. SELECTED SOCIO-ECONOMIC INDICATORS

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Table 1. Selected Socio-Economic Indicators

| Region and countries | Av. ann. pop. growth rate (in %) 1990-1995 | Av. ann. change rate of the urban pop (in %) 1990-1996 | Life exp. at birth (in years) 1995-2000 | Infant mort. rate (per 1,000 births) 1995-2000 | Est. adult literacy (in %) 1995 | | | Real GDP per cap. (PPP\$) 1995 | Human Developm. Index (HDI) 1995 | Real GDP per cap. rank minus HDI rank | Gender Dev. Inde (GDI) 1995 | HDI rank minus GDI rank(2) |
|--------------------------------------|---|---|--|---|---------------------------------------|------|--------|---|---|--|--------------------------------------|----------------------------------|
| | | | | | Total | Male | Female | | | | | |
| Africa | 2.68 | 4.37 | 53.8 | 86 | - | - | - | - | - | - | - | - |
| Algeria | 2.40 | 3.86 | 68.9 | 44 | 61.6 | 73.9 | 49.1 | 5,618 | 0.746 | -17 | 0.627 | -21 |
| Angola | 3.17 | 5.48 | 46.5 | 124 | - | - | - | 1,839 | 0.344 | -28 | 0.331 | 1 |
| Benin | 2.88 | 5.02 | 54.8 | 84 | 37.0 | 48.7 | 25.8 | 1,800 | 0.378 | -14 | 0.364 | 0 |
| Botswana | 2.62 | 9.97 | 50.4 | 56 | 69.8 | 80.5 | 59.9 | 5,611 | 0.678 | -31 | 0.657 | 4 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 2.86 | 6.02 | 46.0 | 97 | 19.2 | 29.5 | 9.2 | 784 | 0.219 | -7 | 0.205 | 0 |
| Burundi | 2.00 | 5.62 | 47.2 | 114 | 35.4 | 49.3 | 22.5 | 637 | 0.241 | -1 | 0.23 | 0 |
| Cameroon | 2.77 | 4.87 | 55.9 | 58 | 63.4 | 75.1 | 52.1 | 2,355 | 0.481 | -13 | 0.455 | -2 |
| Cape Verde | 2.52 | 6.62 | 66.7 | 41 | 71.6 | 81.4 | 63.8 | 2,612 | 0.591 | -6 | 0.565 | 2 |
| Central African Republic | 2.22 | 3.08 | 48.6 | 96 | 60.0 | 68.5 | 52.4 | 1,092 | 0.347 | 2 | 0.34 | 2 |
| Chad | 2.64 | 3.73 | 47.7 | 115 | 48.1 | 62.1 | 34.7 | 1,172 | 0.318 | -14 | 0.301 | 0 |
| Comoros | 3.16 | 4.91 | 57.5 | 82 | 57.3 | 64.2 | 50.4 | 1,317 | 0.411 | 3 | 0.402 | 1 |
| Congo | 2.99 | 4.80 | 50.9 | 90 | 74.9 | 83.2 | 67.2 | 2,554 | 0.519 | -14 | 0.503 | 1 |
| Côte d'Ivoire | 3.18 | 4.61 | 51.0 | 86 | 40.2 | 49.9 | 30.0 | 1,731 | 0.368 | -15 | 0.34 | -3 |
| Democratic Republic of the Congo (1) | 3.90 | 4.44 | 52.9 | 89 | 77.3 | 86.6 | 67.7 | 355a | 0.383 | 31 | 0.376 | 1 |
| Djibouti | 3.00 | 3.47 | 50.3 | 106 | 46.3 | 60.3 | 32.7 | 1,300b | 0.324 | -17 | - | - |
| Egypt | 1.96 | 2.27 | 66.0 | 54 | 51.4 | 63.6 | 38.8 | 3,829 | 0.612 | -20 | 0.555 | -7 |
| Equatorial Guinea | 2.55 | 5.86 | 50.0 | 107 | 78.5 | 89.6 | 68.1 | 1,712b | 0.465 | -1 | 0.446 | -1 |
| Eritrea | 1.92 | 3.50 | 50.6 | 98 | - | - | - | 983b | 0.275 | -10 | 0.269 | 2 |
| Ethiopia | 3.17 | 5.92 | 49.9 | 107 | 35.5 | 45.5 | 25.3 | 455 | 0.252 | 4 | 0.241 | 0 |
| Gabon | 2.80 | 5.15 | 55.5 | 85 | 63.3 | 73.7 | 53.3 | 3,766a | 0.568 | -26 | 0.551 | 0 |
| Gambia | 3.76 | 6.20 | 47.0 | 122 | 38.6 | 52.8 | 24.9 | 948 | 0.291 | -5 | 0.277 | 0 |
| Ghana | 2.87 | 4.03 | 58.0 | 73 | 64.5 | 75.9 | 53.6 | 2,032 | 0.473 | -8 | 0.466 | 2 |
| Guinea | 4.89 | 7.47 | 46.5 | 124 | 35.9 | 49.9 | 21.9 | 1,139a | 0.277 | -15 | 0.258 | -1 |
| Guinea-Bissau | 2.06 | 3.69 | 43.8 | 132 | 54.9 | 68.0 | 42.5 | 811 | 0.295 | 0 | 0.284 | 0 |
| Kenya | 2.91 | 6.35 | 54.5 | 65 | 78.1 | 86.3 | 70.0 | 1,438 | 0.463 | 2 | 0.456 | 5 |
| Lesotho | 2.56 | 6.09 | 58.6 | 72 | 71.4 | 81.1 | 62.3 | 1,290 | 0.469 | 12 | 0.457 | 1 |
| Liberia | -3.86 | -2.55 | 51.5 | 153 | 38.3 | 53.9 | 22.4 | - | - | - | - | - |
| Libyan Arab Jamahiriya | 3.47 | 4.31 | 65.5 | 56 | 76.2 | 87.9 | 63.0 | 6,026 | 0.806 | -6 | 0.664 | -22 |
| Madagascar | 3.25 | 5.60 | 58.5 | 77 | - | - | - | 673 | 0.348 | 15 | 0.345 | 4 |
| Malawi | 0.72 | 3.33 | 40.7 | 142 | 56.4 | 72.0 | 41.8 | 773 | 0.334 | 5 | 0.325 | 1 |
| Mali | 3.17 | 5.57 | 48.0 | 149 | 31.0 | 39.4 | 23.1 | 565 | 0.236 | 1 | 0.229 | 0 |
| Mauritania | 2.54 | 5.83 | 53.5 | 92 | 37.7 | 49.6 | 26.3 | 1,622 | 0.361 | -14 | 0.346 | 1 |
| Mauritius | 1.10 | 1.10 | 71.6 | 15 | 82.9 | 87.1 | 78.8 | 13,294 | 0.833 | -28 | 0.753 | 0 |
| Morocco | 1.96 | 3.41 | 66.7 | 51 | 43.7 | 56.6 | 31.0 | 3,477 | 0.557 | -27 | 0.511 | -1 |
| Mozambique | 3.93 | 8.72 | 46.9 | 110 | 40.1 | 57.7 | 23.3 | 959 | 0.281 | -7 | 0.264 | -1 |
| Namibia | 2.56 | 5.52 | 55.5 | 60 | - | - | - | 4,054 | 0.644 | -22 | 0.62 | 0 |
| Niger | 3.37 | 5.82 | 48.5 | 114 | 13.6 | 20.9 | 6.7 | 765 | 0.207 | -6 | 0.196 | 0 |
| Nigeria | 3.00 | 5.44 | 52.4 | 77 | 57.1 | 67.3 | 47.3 | 1,270 | 0.391 | 5 | 0.375 | -1 |
| Réunion | 1.62 | 2.77 | 75.3 | 7 | - | - | - | - | - | - | - | - |
| Rwanda | -5.88 | -4.65 | 42.1 | 125 | 60.5 | 69.8 | 51.6 | - | - | - | - | - |
| Saint Helena | 0.84 | 4.68 | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | 2.20 | 4.16 | - | - | - | - | - | 1,744b | 0.563 | 11 | - | - |
| Senegal | 2.52 | 4.10 | 51.3 | 62 | 33.1 | 43.1 | 23.2 | 1,815 | 0.342 | -28 | 0.326 | -1 |
| Seychelles | 1.10 | 2.87 | - | - | - | - | - | 7,697a | 0.845 | -6 | - | - |
| Sierra Leone | 0.97 | 3.03 | 37.5 | 169 | 31.4 | 45.4 | 18.2 | 625 | 0.185 | -3 | 0.165 | 0 |
| Somalia | 1.92 | 3.06 | 49.0 | 112 | - | - | - | - | - | - | - | - |
| South Africa | 2.24 | 2.45 | 65.2 | 48 | 81.8 | 81.9 | 81.7 | 4,334 | 0.717 | -9 | 0.68 | 8 |
| Sudan | 2.09 | 5.36 | 55.0 | 71 | 46.1 | 57.7 | 34.6 | 1,110b | 0.343 | -3 | 0.318 | -4 |
| Swaziland | 2.81 | 6.10 | 60.0 | 65 | 76.7 | 78.0 | 75.6 | 2,954 | 0.597 | -10 | 0.573 | 2 |
| Togo | 2.96 | 4.48 | 50.1 | 86 | 51.7 | 67.0 | 37.0 | 1,167 | 0.38 | 6 | 0.358 | -2 |
| Tunisia | 1.93 | 3.26 | 69.6 | 37 | 66.7 | 78.6 | 54.6 | 5,261 | 0.744 | -11 | 0.67 | 0 |
| Uganda | 3.35 | 5.68 | 41.4 | 113 | 61.8 | 73.7 | 50.2 | 1,483 | 0.34 | -23 | 0.331 | 4 |
| United Republic of Tanzania | 3.28 | 6.34 | 51.4 | 80 | 67.8 | 79.4 | 56.8 | 636 | 0.358 | 20 | 0.354 | 3 |
| Zambia | 2.24 | 2.74 | 43.0 | 103 | 78.2 | 85.6 | 71.3 | 986 | 0.378 | 11 | 0.372 | 2 |
| Zimbabwe | 2.54 | 4.80 | 48.5 | 68 | 85.1 | 90.4 | 79.9 | 2,135 | 0.507 | -6 | 0.497 | 2 |

- : data not available or negligible

(1) former Zaire

(2) A positive figure indicates that the GDI rank is better than the HDI rank, a negative, the opposite. See technical notes and the 1998 UNDP Human Development

a: Preliminary update of the Penn World Tables using an expanded set of international comparisons, as described in Summers and Heston, 1991 (See UNDP, Human Development Report, 1998 for more details)

b: Provisional preliminary update of the Penn World Tables using an expanded set of international comparisons, as described in Summers and Heston, 1991 (See UNDP, Human Development Report 1998, for more details)

Technical Notes

In this table some indicators were selected to give a general picture of the development status of the countries on the African continent. Some of the indicators presented here are also included in the tables that follow. The indicators selected here include the population growth rate (in general and in urban centers specifically); the life expectancy and infant mortality rates (these are two good indicators of the general development of a country and the status and access to health facilities); the adult literacy rates; the real GDP per Capita; the Human Development Index and the Gender Development Index.

The **average annual population growth rate** in percentages. Data for 1995-2050 come from the UN medium fertility variant projection which assumes that fertility everywhere will reach replacement level. See also table 2 of the population indicators for a more extensive coverage of this indicator.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The method used to estimate the **average annual change rate of the urban population** involves extrapolating into the future the most recently observed urban/rural growth rate. Refer to the source for more information on the estimates and projections of the urban population.

Source: UNPD, 'World Urbanization Prospects: the 1996 Revision', New York, UN, 1998.

Life expectancy at birth is the average number of years a newborn infant can expect to live under current mortality levels. It is generally calculated separately for each sex and on the basis of life tables, which give age and sex specific mortality rates. From 1995 onwards, these are projections. The method used is the following: for each country, a future course of life expectancy at birth is calculated. Life expectancy is generally projected to rise continuously unless information indicates life expectancy is stagnating or declining during the coming years. The factoring in of the potential mortality impact of the AIDS epidemic is one example of such a circumstance. Three working models of mortality improvement have been developed: a fast life expectancy rise; a middle life expectancy rise; and the slow life expectancy rise. One of these working models is used for most countries, although when special circumstances exist, the projected course of mortality for some countries is assumed to depart from these models. See table 1 of the population indicators for breakdown by gender.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The **infant mortality rate (IMR)** is the annual number of deaths of infants under age 1 per 1000 live births. This mortality level in the first year of life is most sensitive to development levels. See table 5 of the population indicators for more extensive time coverage of this indicator.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The **estimated adult literacy** rate is defined as the percentage of population aged 15 years and over who can both read and write with understanding a short simple statement on his/her everyday life. A person who can write only figures, his or her name or a memorized ritual phrase is not considered literate. The adult literacy rate shows the accumulated achievement of primary education and literacy programs in imparting basic literacy skills to the population, thereby enabling them to apply such skills in daily life and to continue learning and communicating using the written word.

Literacy represents a potential for further intellectual growth and contribution to the cultural, social and economic development of society. Illiteracy rates indicate the extent of need for policies and efforts in organizing adult literacy programs and quality primary education.

Source: UNESCO website: <http://unesco.stat.unesco.org/>

Real GDP per capita. GDP as defined in the 1993 SNA can be circumscribed in three ways: it is the sum total value-added of all production units including all taxes and subsidies on products which are not included in the valuation of output. It is also equal to the sum of final uses of goods and services (except intermediate consumption) measured in purchasers' prices, less the value of imports of goods and services. Finally, it can be measured as the sum of primary incomes distributed by resident producer units (definition is taken from the *UN-CSD; Indicators of sustainable development. Framework and Methodologies*, New York, UN, 1996).

The real GDP per capita is the GDP per capita of a country converted into US dollars on the basis of the purchasing power parity (PPPS) of the country's currency.

Source: UNDP; *Human Development Report 1998*, New York - Oxford, Oxford University Press, 1998.

The **human development index (HDI)** is based on three indicators: longevity, as measured by life expectancy at birth; educational attainment, as measured by a combination of adult literacy (two-thirds weight) and the combined first-, second- and third- educational level gross enrolment ratios (one-third weight); and standard of living, as measured by real GDP per capita (PPPS). See the Human Development Reports for a more extensive technical description of the indicator.

Source: UNDP; *Human Development Report 1998*, New York - Oxford, Oxford University Press, 1998.

The **gender-related development index (GDI)** uses the same variables as the HDI. The difference is that the GDI adjusts the average achievement of each country in life expectancy, educational attainment and income in accordance with the disparity in achievement between woman and men. (For a detailed explanation of the GDI methodology see technical note in the UNDP, Human Development Report 1995)

Source: UNDP; Human Development Report 1998, New York - Oxford, Oxford University Press, 1998.

II. POPULATION INDICATORS

Table 1. Total Population (1998) and other Demographic Indicators

| Region and countries | Estimated population (thousands) | | | Sex ratio (males per 100 females) | Crude birth rate | Crude death rate | Av. annual rate of pop. growth (in %) | Life expectancy at birth (years) | | | Density (per km2) |
|--------------------------------------|-------------------------------------|---------------|---------------|---|---------------------|---------------------|---|-------------------------------------|-------------|-------------|----------------------|
| | 1998 | | | 1998 | 1995-2000 | 1995-2000 | 1950-1995 | 1995-2000 | | | 1996 |
| | Total | Male | Female | | | | | Total | Male | Female | |
| Africa | 778457 | 388273 | 390183 | 100 | 39.2 | 12.9 | 2.6 | 53.8 | 52.3 | 55.3 | 24 |
| Algeria | 30175 | 15271 | 14904 | 102 | 29.2 | 5.6 | 2.6 | 68.9 | 67.5 | 70.3 | 12 |
| Angola | 11967 | 5912 | 6055 | 98 | 47.7 | 18.7 | 2.2 | 46.5 | 44.9 | 48.1 | 9 |
| Benin | 5881 | 2890 | 2991 | 97 | 42.0 | 12.4 | 2.2 | 54.8 | 52.4 | 57.2 | 49 |
| Botswana | 1551 | 762 | 789 | 97 | 35.0 | 13.0 | 3.0 | 50.4 | 48.9 | 51.7 | 3 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 11402 | 5687 | 5715 | 100 | 45.9 | 17.7 | 2.4 | 46.0 | 45.1 | 47.0 | 39 |
| Burundi | 6589 | 3219 | 3370 | 96 | 42.5 | 17.0 | 2.0 | 47.2 | 45.5 | 48.8 | 219 |
| Cameroon | 14323 | 7117 | 7206 | 99 | 39.3 | 11.9 | 2.4 | 55.9 | 54.5 | 57.2 | 29 |
| Cape Verde | 417 | 197 | 220 | 90 | 31.9 | 7.1 | 2.2 | 66.7 | 65.5 | 67.5 | 98 |
| Central African Republic | 3489 | 1691 | 1798 | 94 | 37.6 | 16.4 | 2.0 | 48.6 | 46.4 | 51.0 | 5 |
| Chad | 6892 | 3405 | 3487 | 98 | 41.6 | 17.3 | 1.9 | 47.7 | 46.3 | 49.3 | 5 |
| Comoros | 672 | 341 | 331 | 103 | 40.9 | 10.3 | 2.8 | 57.5 | 57.0 | 58.0 | 283 |
| Congo | 2822 | 1379 | 1443 | 96 | 42.5 | 14.6 | 2.6 | 50.9 | 48.6 | 53.4 | 8 |
| Côte d'Ivoire | 14567 | 7420 | 7147 | 104 | 37.2 | 13.8 | 3.6 | 51.0 | 50.0 | 52.2 | 46 |
| Democratic Republic of the Congo (1) | 49208 | 24346 | 24862 | 98 | 44.9 | 13.5 | 3.0 | 52.9 | 51.3 | 54.5 | 20 |
| Djibouti | 651 | 320 | 331 | 97 | 38.6 | 15.0 | 5.2 | 50.3 | 48.7 | 52.0 | 27 |
| Egypt | 65675 | 33333 | 32342 | 103 | 26.1 | 7.1 | 2.3 | 66.0 | 64.7 | 67.3 | 61 |
| Equatorial Guinea | 430 | 212 | 218 | 97 | 40.8 | 16.2 | 1.3 | 50.0 | 48.4 | 51.6 | 15 |
| Eritrea | 3548 | 1761 | 1787 | 99 | 39.8 | 14.7 | 2.3 | 50.6 | 49.1 | 52.1 | 28 |
| Ethiopia | 62111 | 31236 | 30875 | 101 | 48.2 | 16.2 | 2.5 | 49.9 | 48.4 | 51.6 | 53 |
| Gabon | 1171 | 579 | 592 | 98 | 37.6 | 14.3 | 1.9 | 55.5 | 53.8 | 57.2 | 4 |
| Gambia | 1194 | 590 | 604 | 98 | 39.9 | 17.4 | 3.0 | 47.0 | 45.4 | 48.7 | 101 |
| Ghana | 18857 | 9366 | 9491 | 99 | 38.2 | 10.4 | 2.8 | 58.0 | 56.2 | 59.9 | 75 |
| Guinea | 7673 | 3859 | 3814 | 101 | 48.2 | 18.4 | 2.4 | 46.5 | 46.0 | 47.0 | 31 |
| Guinea-Bissau | 1135 | 559 | 576 | 97 | 40.3 | 20.6 | 1.7 | 43.8 | 42.4 | 45.2 | 30 |
| Kenya | 29020 | 14539 | 14481 | 100 | 36.9 | 11.3 | 3.3 | 54.5 | 52.3 | 55.7 | 55 |
| Lesotho | 2184 | 1078 | 1106 | 97 | 35.4 | 10.6 | 2.3 | 58.6 | 57.3 | 59.9 | 68 |
| Liberia | 2748 | 1384 | 1364 | 101 | 47.5 | 15.3 | 2.1 | 51.5 | 50.0 | 53.0 | 25 |
| Libyan Arab Jamahiriya | 5980 | 3104 | 2876 | 108 | 40.0 | 6.9 | 3.8 | 65.5 | 63.9 | 67.5 | 3 |
| Madagascar | 16348 | 8145 | 8203 | 99 | 41.1 | 9.9 | 2.8 | 58.5 | 57.0 | 60.0 | 26 |
| Malawi | 10377 | 5139 | 5238 | 98 | 47.7 | 22.4 | 2.7 | 40.7 | 40.3 | 41.1 | 85 |
| Mali | 11831 | 5829 | 6002 | 97 | 47.4 | 17.1 | 2.5 | 48.0 | 46.4 | 49.7 | 9 |
| Mauritania | 2454 | 1216 | 1238 | 98 | 38.3 | 13.1 | 2.3 | 53.5 | 51.9 | 55.1 | 2 |
| Mauritius | 1154 | 576 | 578 | 100 | 19.3 | 6.5 | 1.8 | 71.6 | 68.3 | 75.0 | 556 |
| Morocco | 28012 | 14024 | 13988 | 100 | 25.3 | 6.7 | 2.4 | 66.7 | 64.8 | 68.5 | 62 |
| Mozambique | 18691 | 9234 | 9457 | 98 | 42.5 | 17.5 | 2.3 | 46.9 | 45.5 | 48.4 | 22 |
| Namibia | 1653 | 823 | 830 | 99 | 35.9 | 11.8 | 2.5 | 55.5 | 54.7 | 56.6 | 2 |
| Niger | 10119 | 5004 | 5115 | 98 | 50.2 | 17.1 | 3.0 | 48.5 | 46.9 | 50.2 | 7 |
| Nigeria | 121773 | 60396 | 61377 | 98 | 42.3 | 13.9 | 2.8 | 52.4 | 50.8 | 54.0 | 125 |
| Réunion | 682 | 333 | 349 | 95 | 18.3 | 5.3 | 2.2 | 75.3 | 70.9 | 79.8 | 265 |
| Rwanda | 6527 | 3221 | 3306 | 97 | 42.8 | 19.7 | 2.0 | 42.1 | 40.8 | 43.4 | 205 |
| Saint Helena | - | - | - | - | - | - | 0.4 | - | - | - | 54 |
| Sao Tome and Principe | 118 b | 58 b | 59 b | 98 b | - | - | 1.8 | - | - | - | 140 |
| Senegal | 9001 | 4506 | 4495 | 100 | 41.1 | 14.5 | 2.7 | 51.3 | 50.3 | 52.3 | 44 |
| Seychelles | 76 a | 38 a | 38 a | 100 a | - | - | 1.7 | - | 65.3 c | 74.1 c | 168 |
| Sierra Leone | 4576 | 2244 | 2332 | 96 | 46.5 | 25.7 | 1.7 | 37.5 | 36.0 | 39.1 | 60 |
| Somalia | 10653 | 5277 | 5376 | 98 | 50.0 | 16.9 | 2.5 | 49.0 | 47.4 | 50.6 | 15 |
| South Africa | 44296 | 21999 | 22297 | 99 | 29.7 | 7.9 | 2.5 | 65.2 | 62.3 | 68.3 | 35 |
| Sudan | 28527 | 14315 | 14212 | 101 | 33.7 | 11.7 | 2.4 | 55.0 | 53.6 | 56.4 | 11 |
| Swaziland | 932 | 448 | 484 | 93 | 36.8 | 9.2 | 2.7 | 60.0 | 57.7 | 62.3 | 54 |
| Togo | 4434 | 2198 | 2236 | 98 | 41.9 | 14.9 | 2.5 | 50.1 | 48.8 | 51.5 | 74 |
| Tunisia | 9497 | 4810 | 4687 | 103 | 23.9 | 5.9 | 2.1 | 69.6 | 68.4 | 70.7 | 56 |
| Uganda | 21318 | 10596 | 10722 | 99 | 51.1 | 21.0 | 3.2 | 41.4 | 40.4 | 42.3 | 82 |
| United Republic of Tanzania | 32189 | 15946 | 16243 | 98 | 41.2 | 13.5 | 3.0 | 51.4 | 50.0 | 52.8 | 35 |
| Zambia | 8690 | 4286 | 4404 | 97 | 42.4 | 18.0 | 2.7 | 43.0 | 42.2 | 43.7 | 11 |
| Zimbabwe | 11924 | 5919 | 6005 | 99 | 37.1 | 14.6 | 3.2 | 48.5 | 47.6 | 49.4 | 30 |

-: data not available or negligible

(1): former Zaire

a: data refer to b: data refer to 1995

Table 2. Trends in Population Size and Growth Rate

| Region and countries | Population (thousand) | | | | | Average annual rate of population growth (%) | | | | |
|--------------------------------------|-----------------------|---------------|---------------|----------------|----------------|--|-------------|-------------|-------------|-------------|
| | 1950 | 1970 | 1995 | 2025 | 2050 | 1950-55 | 1970-75 | 1995-00 | 2020-25 | 2045-50 |
| Africa | 223974 | 364081 | 719495 | 1453899 | 2046401 | 2.23 | 2.56 | 2.61 | 1.98 | 1.08 |
| Algeria | 8753 | 13746 | 28109 | 47322 | 58991 | 2.09 | 3.06 | 2.34 | 1.26 | 0.59 |
| Angola | 4131 | 5588 | 10816 | 25547 | 38897 | 1.43 | 1.83 | 3.34 | 2.46 | 1.29 |
| Benin | 2046 | 2705 | 5409 | 12276 | 18095 | 0.63 | 2.38 | 2.80 | 2.33 | 1.28 |
| Botswana | 389 | 637 | 1450 | 2576 | 3320 | 2.13 | 3.50 | 2.20 | 1.46 | 0.79 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 3654 | 5424 | 10479 | 23451 | 35419 | 1.87 | 2.37 | 2.80 | 2.40 | 1.29 |
| Burundi | 2456 | 3514 | 6064 | 12341 | 16937 | 1.79 | 0.93 | 2.80 | 1.95 | 1.07 |
| Cameroon | 4466 | 6612 | 13192 | 28521 | 41951 | 1.62 | 2.59 | 2.74 | 2.26 | 1.26 |
| Cape Verde | 146 | 267 | 386 | 679 | 864 | 2.95 | 0.80 | 2.48 | 1.35 | 0.64 |
| Central African Republic | 1314 | 1849 | 3273 | 6006 | 8215 | 1.46 | 2.13 | 2.12 | 1.81 | 1.04 |
| Chad | 2658 | 3652 | 6335 | 12648 | 18004 | 1.31 | 1.97 | 2.75 | 2.00 | 1.09 |
| Comoros | 173 | 275 | 612 | 1342 | 1876 | 2.31 | 2.79 | 3.07 | 2.02 | 1.11 |
| Congo | 808 | 1263 | 2593 | 5747 | 8729 | 1.91 | 2.73 | 2.80 | 2.42 | 1.28 |
| Côte d'Ivoire | 2776 | 5515 | 13694 | 24397 | 31706 | 2.98 | 4.05 | 2.01 | 1.34 | 0.81 |
| Democratic Republic of the Congo (1) | 12184 | 20270 | 45453 | 105925 | 164635 | 2.21 | 2.74 | 2.59 | 2.58 | 1.35 |
| Djibouti | 62 | 148 | 601 | 1134 | 1506 | 2.14 | 6.52 | 2.68 | 1.64 | 0.93 |
| Egypt | 21834 | 35285 | 62096 | 95766 | 115480 | 2.46 | 1.92 | 1.85 | 1.11 | 0.56 |
| Equatorial Guinea | 226 | 291 | 400 | 798 | 1144 | 1.06 | -5.17 | 2.46 | 2.04 | 1.13 |
| Eritrea | 1140 | 1831 | 3171 | 6504 | 8808 | 2.04 | 2.63 | 3.66 | 1.82 | 1.03 |
| Ethiopia | 18434 | 28791 | 56404 | 136288 | 212732 | 2.04 | 2.25 | 3.20 | 2.65 | 1.35 |
| Gabon | 469 | 504 | 1076 | 2118 | 2952 | 0.33 | 3.24 | 2.77 | 1.90 | 1.13 |
| Gambia | 294 | 464 | 1111 | 1984 | 2604 | 1.29 | 3.32 | 2.26 | 1.61 | 0.93 |
| Ghana | 4900 | 8616 | 17338 | 36341 | 51205 | 3.23 | 2.65 | 2.79 | 2.00 | 1.15 |
| Guinea | 2550 | 3900 | 7349 | 15286 | 22914 | 2.06 | 1.23 | 1.35 | 2.37 | 1.24 |
| Guinea-Bissau | 505 | 525 | 1069 | 1921 | 2674 | 0.66 | 3.56 | 1.98 | 1.81 | 1.05 |
| Kenya | 6265 | 11498 | 27150 | 50202 | 66054 | 2.75 | 3.56 | 2.22 | 1.31 | 0.79 |
| Lesotho | 734 | 1064 | 2027 | 4031 | 5643 | 1.57 | 2.19 | 2.48 | 1.95 | 1.11 |
| Liberia | 824 | 1385 | 2123 | 6573 | 9955 | 2.08 | 3.00 | 8.56 | 2.49 | 1.23 |
| Libyan Arab Jamahiriya | 1029 | 1986 | 5407 | 12885 | 19109 | 1.80 | 4.17 | 3.33 | 2.37 | 1.29 |
| Madagascar | 4229 | 6860 | 14874 | 34476 | 50807 | 2.32 | 2.51 | 3.13 | 2.32 | 1.28 |
| Malawi | 2881 | 4518 | 9673 | 20391 | 29825 | 1.91 | 2.98 | 2.54 | 2.27 | 1.12 |
| Mali | 3520 | 5484 | 10795 | 24575 | 36817 | 2.11 | 2.35 | 3.03 | 2.38 | 1.24 |
| Mauritania | 825 | 1221 | 2274 | 4443 | 6077 | 1.77 | 2.32 | 2.52 | 1.84 | 1.03 |
| Mauritius (2) | 493 | 826 | 1117 | 1481 | 1654 | 2.91 | 1.53 | 1.08 | 0.76 | 0.32 |
| Morocco | 8953 | 15310 | 26524 | 39925 | 47276 | 2.47 | 2.45 | 1.77 | 1.09 | 0.46 |
| Mozambique | 6198 | 9395 | 17260 | 35444 | 51774 | 1.69 | 2.22 | 2.51 | 2.17 | 1.16 |
| Namibia | 511 | 792 | 1536 | 2999 | 4167 | 1.90 | 2.57 | 2.41 | 1.93 | 1.08 |
| Niger | 2400 | 4165 | 9151 | 22385 | 34576 | 2.28 | 2.72 | 3.32 | 2.58 | 1.32 |
| Nigeria | 32935 | 55070 | 111721 | 238397 | 338510 | 2.38 | 2.62 | 2.84 | 2.11 | 1.17 |
| Réunion | 248 | 461 | 655 | 905 | 1033 | 3.22 | 0.95 | 1.30 | 0.84 | 0.35 |
| Rwanda | 2120 | 3728 | 5184 | 12981 | 16937 | 2.41 | 3.24 | 7.85 | 1.66 | 0.93 |
| Saint Helena (3) | 5 | 5 | 6 | 8 | 10 | 0.0 | 0.40 | 0.84 | 0.84 | 0.84 |
| Sao Tome and Principe | 60 | 73 | 133 | 215 | 294 | 0.66 | 2.08 | 2.00 | 1.25 | 1.26 |
| Senegal | 2500 | 4158 | 8312 | 16896 | 23442 | 2.35 | 2.89 | 2.66 | 1.95 | 1.08 |
| Seychelles | 34 | 53 | 73 | 95 | 106 | 2.22 | 2.13 | 1.03 | 0.67 | 0.32 |
| Sierra Leone | 1944 | 2656 | 4195 | 8200 | 11368 | 1.36 | 1.97 | 2.97 | 1.90 | 1.00 |
| Somalia | 3072 | 4791 | 9491 | 23669 | 36408 | 2.03 | 2.66 | 3.89 | 2.52 | 1.30 |
| South Africa | 13683 | 22458 | 41465 | 71621 | 91466 | 2.34 | 2.67 | 2.19 | 1.36 | 0.78 |
| Sudan | 9190 | 13859 | 26707 | 46850 | 59947 | 1.99 | 2.89 | 2.21 | 1.36 | 0.81 |
| Swaziland | 264 | 419 | 857 | 1675 | 2228 | 1.98 | 2.77 | 2.77 | 1.62 | 0.90 |
| Togo | 1329 | 2020 | 4085 | 8762 | 12655 | 1.23 | 2.47 | 2.70 | 2.24 | 1.21 |
| Tunisia | 3530 | 5127 | 8987 | 13524 | 15907 | 1.79 | 2.00 | 1.81 | 1.05 | 0.42 |
| Uganda | 4762 | 9806 | 19689 | 44983 | 66305 | 3.08 | 2.63 | 2.63 | 2.45 | 1.27 |
| United Republic of Tanzania | 7886 | 13694 | 30026 | 62436 | 88963 | 2.45 | 2.99 | 2.30 | 2.13 | 1.15 |
| Zambia | 2440 | 4189 | 8081 | 16163 | 21965 | 2.41 | 2.89 | 2.45 | 1.89 | 1.00 |
| Zimbabwe | 2730 | 5260 | 11190 | 19347 | 24904 | 3.53 | 3.10 | 2.09 | 1.23 | 0.73 |

- : data not available or negligible

(1): former Zaïre

(2): including Agalega, Rodrigues and St Brandon

(3): including Ascension and Tristan da Cunha

Table 3. Fertility Trends

| Region and countries | Crude birth rate (per thousand) | | | | | Total fertility rate (per woman) | | | | |
|--------------------------------------|------------------------------------|----------|----------|----------|----------|-------------------------------------|----------|----------|----------|----------|
| | 1950-'55 | 1970-'75 | 1990-'95 | 2010-'15 | 2025-'30 | 1950-'55 | 1970-'75 | 1990-'95 | 2010-'15 | 2025-'30 |
| Africa | 49.2 | 46.5 | 41.2 | 32.4 | 24.8 | 6.64 | 6.57 | 5.71 | 4.02 | 2.93 |
| Algeria | 51.0 | 48.0 | 30.8 | 19.6 | 17.1 | 7.28 | 7.38 | 4.30 | 2.34 | 2.10 |
| Angola | 49.8 | 49.5 | 50.8 | 40.7 | 30.6 | 6.39 | 6.60 | 7.20 | 5.16 | 3.63 |
| Benin | 48.2 | 52.4 | 45.1 | 36.2 | 26.0 | 6.80 | 7.06 | 6.30 | 4.44 | 3.04 |
| Botswana | 47.5 | 48.6 | 37.2 | 27.9 | 18.5 | 6.50 | 6.60 | 4.85 | 3.28 | 2.10 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 48.5 | 52.4 | 47.7 | 39.6 | 30.0 | 6.33 | 7.80 | 7.10 | 4.99 | 3.42 |
| Burundi | 48.4 | 44.0 | 45.9 | 35.5 | 25.7 | 6.80 | 6.80 | 6.80 | 4.71 | 3.14 |
| Cameroon | 43.4 | 45.3 | 40.5 | 33.4 | 25.4 | 5.68 | 6.30 | 5.70 | 4.10 | 2.90 |
| Cape Verde | 50.9 | 38.8 | 33.6 | 22.5 | 17.7 | 6.60 | 7.00 | 3.88 | 2.59 | 2.10 |
| Central African Republic | 43.8 | 43.1 | 39.2 | 32.3 | 24.5 | 5.52 | 5.72 | 5.30 | 3.89 | 2.83 |
| Chad | 45.1 | 44.6 | 43.5 | 35.1 | 27.5 | 5.77 | 5.99 | 5.89 | 4.37 | 3.24 |
| Comoros | 47.3 | 49.6 | 43.1 | 32.7 | 22.3 | 6.33 | 7.05 | 6.00 | 4.05 | 2.59 |
| Congo | 44.1 | 46.1 | 44.7 | 36.7 | 28.5 | 5.68 | 6.29 | 6.29 | 4.61 | 3.36 |
| Côte d'Ivoire | 52.8 | 51.1 | 39.0 | 29.9 | 19.1 | 6.90 | 7.41 | 5.70 | 3.46 | 2.10 |
| Democratic Republic of the Congo (1) | 47.6 | 47.7 | 48.1 | 38.7 | 29.5 | 6.00 | 6.30 | 6.70 | 4.86 | 3.48 |
| Djibouti | 46.2 | 47.1 | 39.0 | 31.1 | 23.7 | 7.10 | 6.70 | 5.80 | 4.16 | 2.92 |
| Egypt | 48.6 | 38.4 | 28.6 | 18.3 | 16.4 | 6.56 | 5.53 | 3.80 | 2.10 | 2.10 |
| Equatorial Guinea | 42.3 | 42.4 | 43.5 | 35.1 | 27.2 | 5.50 | 5.68 | 5.89 | 4.37 | 3.24 |
| Eritrea | 48.4 | 46.1 | 43.0 | 32.4 | 22.4 | 6.62 | 6.20 | 5.80 | 3.95 | 2.56 |
| Ethiopia | 52.3 | 49.3 | 48.9 | 40.0 | 31.0 | 7.15 | 6.80 | 7.00 | 5.37 | 3.73 |
| Gabon | 30.1 | 32.7 | 35.4 | 31.3 | 24.6 | 4.06 | 4.26 | 5.00 | 4.16 | 2.92 |
| Gambia | 47.1 | 49.2 | 43.3 | 32.3 | 24.5 | 6.09 | 6.50 | 5.60 | 4.04 | 2.88 |
| Ghana | 48.3 | 45.8 | 40.3 | 32.1 | 23.2 | 6.90 | 6.64 | 5.70 | 4.01 | 2.73 |
| Guinea | 54.7 | 51.6 | 50.6 | 40.5 | 30.9 | 7.00 | 7.00 | 7.00 | 5.04 | 3.57 |
| Guinea-Bissau | 40.8 | 41.4 | 42.4 | 35.7 | 28.0 | 5.05 | 5.38 | 5.79 | 4.31 | 3.21 |
| Kenya | 52.8 | 52.9 | 37.7 | 27.9 | 19.2 | 7.51 | 8.12 | 5.40 | 3.20 | 2.10 |
| Lesotho | 42.3 | 42.4 | 36.9 | 30.4 | 23.2 | 5.84 | 5.74 | 5.20 | 3.82 | 2.79 |
| Liberia | 48.0 | 48.1 | 49.1 | 36.2 | 29.3 | 6.29 | 6.80 | 6.80 | 4.92 | 3.51 |
| Libyan Arab Jamahiriya | 48.0 | 49.0 | 41.9 | 33.1 | 25.0 | 6.87 | 7.58 | 6.39 | 4.48 | 3.05 |
| Madagascar | 49.6 | 46.7 | 43.7 | 34.7 | 25.5 | 6.60 | 6.60 | 6.10 | 4.32 | 2.99 |
| Malawi | 52.3 | 56.6 | 50.6 | 40.3 | 30.2 | 6.78 | 7.40 | 7.20 | 5.16 | 3.63 |
| Mali | 52.9 | 51.0 | 50.8 | 39.6 | 30.2 | 7.10 | 7.10 | 7.10 | 5.10 | 3.60 |
| Mauritania | 46.5 | 45.0 | 39.8 | 31.6 | 23.7 | 6.50 | 6.50 | 5.40 | 3.92 | 2.81 |
| Mauritius (2) | 47.3 | 26.1 | 20.8 | 15.7 | 14.5 | 6.27 | 3.25 | 2.35 | 2.10 | 2.10 |
| Morocco | 50.4 | 45.6 | 28.8 | 18.1 | 15.8 | 7.17 | 6.89 | 3.75 | 2.10 | 2.10 |
| Mozambique | 46.0 | 45.7 | 45.2 | 36.9 | 28.5 | 6.19 | 6.50 | 6.50 | 4.74 | 3.42 |
| Namibia | 44.1 | 42.5 | 37.5 | 30.8 | 23.5 | 6.00 | 6.00 | 5.25 | 3.85 | 2.8 |
| Niger | 54.4 | 59.8 | 52.5 | 41.6 | 31.8 | 7.10 | 8.12 | 7.40 | 5.43 | 3.77 |
| Nigeria | 51.0 | 46.3 | 45.4 | 35.3 | 26.0 | 6.45 | 6.45 | 6.45 | 4.52 | 3.07 |
| Réunion | 39.4 | 30.7 | 21.5 | 16.1 | 14.2 | 5.65 | 3.93 | 2.43 | 2.10 | 2.10 |
| Rwanda | 47.3 | 52.9 | 43.9 | 35.2 | 21.6 | 7.08 | 8.29 | 6.55 | 4.35 | 2.50 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - |
| Senegal | 49.0 | 49.2 | 43.0 | 34.0 | 25.1 | 6.70 | 7.00 | 6.06 | 4.30 | 2.98 |
| Seychelles | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 47.9 | 48.9 | 49.0 | 39.2 | 30.3 | 6.09 | 6.50 | 6.50 | 4.74 | 3.42 |
| Somalia | 51.8 | 50.1 | 50.2 | 41.0 | 31.2 | 7.00 | 7.00 | 7.00 | 5.37 | 3.73 |
| South Africa | 43.4 | 39.6 | 31.2 | 23.8 | 17.4 | 6.51 | 5.49 | 4.09 | 2.95 | 2.10 |
| Sudan | 47.0 | 47.0 | 34.7 | 27.5 | 18.9 | 6.67 | 6.67 | 5.00 | 3.45 | 2.29 |
| Swaziland | 50.0 | 47.5 | 38.8 | 27.5 | 18.5 | 6.50 | 6.50 | 4.86 | 3.28 | 2.10 |
| Togo | 47.3 | 45.6 | 44.5 | 35.9 | 26.4 | 6.58 | 6.58 | 6.58 | 4.59 | 3.09 |
| Tunisia | 46.4 | 37.1 | 25.6 | 17.5 | 15.5 | 6.90 | 6.18 | 3.25 | 2.10 | 2.10 |
| Uganda | 51.4 | 50.3 | 50.8 | 41.0 | 29.5 | 6.90 | 6.90 | 7.10 | 5.22 | 3.35 |
| United Republic of Tanzania | 51.1 | 49.6 | 43.2 | 34.2 | 25.3 | 6.74 | 6.80 | 5.90 | 4.21 | 2.94 |
| Zambia | 50.1 | 49.1 | 44.1 | 34.7 | 23.3 | 6.59 | 6.90 | 5.98 | 4.04 | 2.58 |
| Zimbabwe | 51.8 | 48.6 | 40.4 | 27.9 | 19.7 | 7.20 | 7.20 | 5.20 | 3.13 | 2.10 |

- : data not available or negligible

(1): former Zaïre

(2): including Agalesa, Rodrigues and St. Brandon

Table 4. Reproductive Health Indicators

| Region and Countries | Percentage of women of age 15-49 (%) | | | Contraceptive prevalence (%) 19 98 | | % of Births Attended by Skilled Personnel 1996 | Maternal mortality rate (per 100,000 live births) | Most Used Method of Family Planning 1990/1996 | Abortion Policy 1996/1997 |
|--------------------------------------|--------------------------------------|------|------|------------------------------------|---------------|--|---|---|---------------------------|
| | 1970 | 1995 | 2010 | Any method | Modern method | | | | |
| | 1970 | 1995 | 2010 | method | method | 1996 | live births) | 1990/1996 | 1996/1997 |
| Africa | 45.0 | 46.1 | 48.7 | 19 | 15 | 43 | 880 | - | - |
| Algeria | 41.6 | 50.3 | 54.2 | 52 | 49 | 77 | 160 | Pill | O |
| Angola | 46.2 | 42.8 | 45.8 | - | - | 17 | 1500 | - | o |
| Benin | 42.6 | 43.8 | 47.7 | 16 | 3 | 38 | 990 | Rhy | o |
| Botswana | 44.2 | 48.0 | 51.8 | 33 | 32 | 77 | 250 | Pill | O |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 45.0 | 43.5 | 46.5 | 8 | 4 | 43 | 930 | Rhy | o |
| Burundi | 44.9 | 44.9 | 48.6 | 9 | 1 | 24 | 1300 | Rhy | O |
| Cameroon | 45.9 | 44.9 | 47.6 | 16 | 4 | 58 | 550 | Rhy | O |
| Cape Verde | 39.1 | 49.2 | 54.7 | - | - | - | - | - | - |
| Central African Republic | 46.4 | 46.1 | 48.9 | 24 | 4 | 46 | 700 | Abs | o |
| Chad | 46.2 | 45.0 | 47.6 | 4 | 1 | 15 | 1500 | - | o |
| Comoros | 44.5 | 44.9 | 48.7 | 21 | 11 | 24 | 950 | Wi | - |
| Congo | 44.9 | 44.5 | 47.2 | - | - | 50 | 890 | - | O |
| Côte d'Ivoire | 44.1 | 45.1 | 50.6 | 11 | 4 | 45 | 810 | Rhy | o |
| Democratic Republic of the Congo (1) | 46.1 | 43.5 | 45.9 | 8 | 2 | - | 870 | - | o |
| Djibouti | 47.6 | 48.2 | 49.4 | - | - | 79 | 570 | - | - |
| Egypt | 45.7 | 49.2 | 53.2 | 47 | 46 | 46 | 170 | IUD | o |
| Equatorial Guinea | 46.5 | 44.9 | 47.4 | - | - | - | - | - | - |
| Eritrea | 45.9 | 45.8 | 48.8 | 5 | 4 | 6 | 1400 | Pill | O |
| Ethiopia | 45.2 | 43.8 | 44.7 | 4 | 3 | 8 | 1400 | Pill | O |
| Gabon | 49.2 | 45.2 | 45.4 | - | - | 80 | 500 | - | o |
| Gambia | 47.1 | 48.2 | 48.7 | 12 | 7 | 44 | 1100 | - | O |
| Ghana | 45.1 | 45.5 | 48.8 | 20 | 10 | 44 | 740 | Rhy | O |
| Guinea | 45.1 | 43.9 | 45.9 | 2 | 1 | 31 | 1600 | - | O |
| Guinea-Bissau | 48.5 | 45.1 | 47.4 | - | - | 27 | 910 | - | o |
| Kenya | 40.6 | 45.8 | 51.4 | 33 | 27 | 45 | 650 | Pill | o |
| Lesotho | 47.0 | 46.0 | 48.5 | 23 | 19 | 50 | 610 | Pill | o |
| Liberia | 45.4 | 46.7 | 44.2 | 6 | 5 | 58 | 560 | Pill | O |
| Libyan Arab Jamahiriya | 44.5 | 44.8 | 47.2 | 40 | 26 | 76 | 220 | - | o |
| Madagascar | 44.8 | 44.5 | 47.8 | 17 | 5 | 57 | 490 | Rhy | o |
| Malawi | 44.7 | 44.5 | 47.2 | 22 | 14 | 55 | 560 | Inj | O |
| Mali | 45.0 | 44.1 | 46.5 | 7 | 5 | 24 | 1200 | Pill | o |
| Mauritania | 46.2 | 46.7 | 49.2 | 3 | 1 | 40 | 930 | Wi | o |
| Mauritius | 46.7 | 56.0 | 52.1 | 75 | 49 | 97 | 120 | Pill | o |
| Morocco | 43.2 | 51.8 | 55.8 | 50 | 42 | 40 | 610 | Pill | O |
| Mozambique | 46.0 | 44.7 | 47.4 | 6 | 5 | 30 | 1500 | - | O |
| Namibia | 46.4 | 46.2 | 48.9 | 29 | 26 | 68 | 370 | Pill | O |
| Niger | 44.8 | 43.2 | 45.0 | 4 | 2 | 15 | 1200 | Other | o |
| Nigeria | 45.6 | 44.9 | 47.4 | 6 | 4 | 31 | 1000 | Rhy | o |
| Réunion | 43.0 | 52.4 | 53.0 | 73 | 67 | 97 | - | Pill | - |
| Rwanda | 43.9 | 45.1 | 49.8 | 21 | 13 | 26 | 1300 | Inj | O |
| Saint Helena | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - |
| Senegal | 44.9 | 45.7 | 48.4 | 13 | 8 | 47 | 1200 | Pill | o |
| Seychelles | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 46.4 | 45.6 | 47.2 | - | - | 25 | 1800 | - | O |
| Somalia | 44.3 | 43.8 | 44.8 | - | - | 2 | 1600 | - | o |
| South Africa | 46.5 | 49.4 | 50.8 | 50 | 48 | 82 | 230 | Inj | * |
| Sudan | 46.0 | 48.4 | 50.9 | 8 | 7 | 86 | 660 | Pill | o |
| Swaziland | 44.7 | 49.3 | 51.1 | 20 | 17 | 56 | 560 | Pill, Inj | - |
| Togo | 45.6 | 44.2 | 47.4 | 12 | 3 | 32 | 640 | Rhy | o |
| Tunisia | 42.3 | 52.5 | 55.4 | 60 | 51 | 90 | 170 | IUD | * |
| Uganda | 44.0 | 43.8 | 45.5 | 15 | 8 | 38 | 1200 | Cond | o |
| United Republic of Tanzania | 44.6 | 45.5 | 48.6 | 18 | 13 | 44 | 770 | Pill | o |
| Zambia | 44.9 | 45.1 | 49.7 | 25 | 14 | 51 | 940 | Pill | * |
| Zimbabwe | 41.6 | 47.3 | 51.9 | 48 | 42 | 69 | 570 | Pill | O |

- : data are unavailable or inapplicable
(1) : former Zaïre

Legend column 8:
Cond: condom
Abs: abstinence
Rhy: rhythm method
Wi: withdrawal
Pill: oral contraceptive pill
IUD: intrauterine device
Other: other method

Legend column 9:
*: permitted upon request for socioeconomic reasons, with gestational or viability limits. Certain other restrictions may apply such as parental or spousal consent
O: permitted to preserve the woman's physical or mental health, or in cases of rape, incest, or fetal illness or abnormality
o: not permitted, or only permitted to save the woman's life

Table 5. Mortality Trends

| Region and country | Crude death rate (per 1,000) | | | Infant mortality rate (per 1,000 births) | | | Under-5 mortality rate (per 1,000 live births) 1990-95 | | Life expectancy at birth | | |
|--------------------------------------|---------------------------------|---------|---------|---|---------|---------|--|--------|-----------------------------|---------|---------|
| | 1970-75 | 1990-95 | 2010-15 | 1970-75 | 1995-00 | 2010-15 | Male | Female | 1970-75 | 1990-95 | 2010-15 |
| Africa | 19.2 | 14.3 | 9.3 | 130 | 86 | 62 | 152 | 138 | 46.0 | 51.8 | 60.4 |
| Algeria | 15.4 | 6.5 | 4.6 | 132 | 44 | 25 | 66 | 60 | 54.5 | 67.1 | 72.7 |
| Angola | 26.1 | 19.1 | 12.7 | 173 | 124 | 90 | 205 | 183 | 38.0 | 46.5 | 54.0 |
| Benin | 23.7 | 13.6 | 8.0 | 137 | 84 | 55 | 142 | 116 | 44.0 | 53.7 | 62.5 |
| Botswana | 13.6 | 11.0 | 8.5 | 88 | 56 | 37 | 97 | 86 | 53.2 | 54.3 | 60.4 |
| British Indian Ocean Terr. | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 23.9 | 18.1 | 12.4 | 137 | 97 | 70 | 176 | 166 | 40.9 | 46.5 | 53.2 |
| Burundi | 20.2 | 19.6 | 12.0 | 137 | 114 | 85 | 198 | 178 | 44.0 | 44.6 | 54.1 |
| Cameroon | 19.5 | 12.8 | 7.7 | 119 | 58 | 39 | 122 | 111 | 45.8 | 54.7 | 64.1 |
| Cape Verde | 11.7 | 8.5 | 5.2 | 82 | 41 | 28 | - | - | 57.5 | 64.7 | 70.8 |
| Central African Republic | 21.8 | 17.0 | 11.8 | 132 | 96 | 68 | 172 | 140 | 43.0 | 48.3 | 55.7 |
| Chad | 24.9 | 18.5 | 12.7 | 166 | 115 | 87 | 191 | 171 | 39.0 | 46.7 | 54.1 |
| Comoros | 18.0 | 11.6 | 7.1 | 135 | 82 | 54 | - | - | 47.5 | 55.5 | 63.5 |
| Congo | 18.9 | 14.8 | 9.9 | 95 | 90 | 66 | 154 | 122 | 46.7 | 51.5 | 58.2 |
| Côte d'Ivoire | 19.4 | 13.2 | 10.0 | 129 | 86 | 61 | 134 | 119 | 45.4 | 52.1 | 58.0 |
| Democratic Republic of the Congo (1) | 18.9 | 14.6 | 9.3 | 127 | 89 | 62 | 151 | 133 | 46.1 | 52.0 | 59.8 |
| Djibouti | 22.4 | 16.2 | 11.4 | 154 | 106 | 80 | - | - | 41.0 | 48.3 | 56.3 |
| Egypt | 16.3 | 8.1 | 5.9 | 150 | 54 | 30 | 84 | 77 | 52.1 | 63.6 | 71.2 |
| Equatorial Guinea | 24.1 | 18.0 | 11.9 | 157 | 107 | 81 | - | - | 40.5 | 48.0 | 56.0 |
| Eritrea | 19.7 | 15.7 | 10.5 | 136 | 98 | 66 | 165 | 148 | 44.3 | 49.6 | 57.7 |
| Ethiopia | 22.9 | 18.1 | 10.8 | 154 | 107 | 75 | 196 | 176 | 41.0 | 47.5 | 57.4 |
| Gabon | 20.5 | 15.4 | 10.3 | 132 | 85 | 61 | 146 | 129 | 45.0 | 53.5 | 61.5 |
| Gambia | 26.7 | 19.2 | 13.3 | 179 | 122 | 94 | - | - | 37.0 | 45.0 | 53.0 |
| Ghana | 15.8 | 11.6 | 7.6 | 107 | 73 | 50 | 127 | 110 | 50.0 | 56.0 | 64.0 |
| Guinea | 26.8 | 20.3 | 13.4 | 177 | 124 | 96 | 214 | 209 | 37.3 | 44.5 | 52.5 |
| Guinea-Bissau | 26.7 | 21.8 | 15.6 | 183 | 132 | 102 | 222 | 198 | 36.5 | 42.8 | 49.8 |
| Kenya | 17.3 | 11.8 | 7.0 | 98 | 65 | 41 | 107 | 102 | 51.0 | 54.1 | 64.4 |
| Lesotho | 19.3 | 11.3 | 7.4 | 130 | 72 | 45 | 109 | 101 | 49.5 | 57.6 | 66.0 |
| Liberia | 19.6 | 27.9 | 8.9 | 182 | 153 | 78 | 334 | 330 | 47.5 | 39.4 | 63.4 |
| Libyan Arab Jamahiriya | 14.8 | 8.1 | 4.8 | 117 | 56 | 30 | 98 | 89 | 52.9 | 63.1 | 70.9 |
| Madagascar | 18.3 | 11.2 | 6.8 | 172 | 77 | 51 | 123 | 109 | 46.5 | 56.5 | 64.5 |
| Malawi | 23.5 | 22.4 | 14.7 | 191 | 142 | 104 | 234 | 227 | 41.0 | 42.0 | 50.0 |
| Mali | 25.4 | 19.1 | 12.4 | 203 | 149 | 117 | 210 | 187 | 38.5 | 46.0 | 54.0 |
| Mauritania | 21.5 | 14.4 | 9.7 | 142 | 92 | 67 | 161 | 143 | 43.5 | 51.5 | 59.5 |
| Mauritius (2) | 7.0 | 6.6 | 6.6 | 55 | 15 | 10 | 22 | 19 | 62.9 | 70.2 | 74.9 |
| Morocco | 15.7 | 7.6 | 5.7 | 122 | 51 | 28 | 85 | 76 | 52.9 | 64.5 | 71.5 |
| Mozambique | 21.7 | 18.7 | 12.5 | 168 | 110 | 82 | 192 | 171 | 42.5 | 45.9 | 54.0 |
| Namibia | 16.8 | 11.9 | 8.3 | 113 | 60 | 41 | 109 | 102 | 48.8 | 55.9 | 63.0 |
| Niger | 25.2 | 18.9 | 12.2 | 167 | 114 | 87 | 207 | 184 | 39.0 | 46.5 | 54.5 |
| Nigeria | 20.2 | 15.4 | 10.2 | 111 | 77 | 57 | 165 | 151 | 43.5 | 50.4 | 58.4 |
| Réunion | 7.0 | 5.4 | 5.8 | 41 | 7 | 5 | - | - | 64.2 | 74.0 | 78.4 |
| Rwanda | 20.5 | 44.6 | 13.3 | 142 | 125 | 92 | 240 | 225 | 44.6 | 22.6 | 51.2 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - |
| Senegal | 23.9 | 16.0 | 10.7 | 122 | 62 | 44 | 172 | 163 | 40.3 | 49.3 | 57.3 |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 29.2 | 29.6 | 17.9 | 193 | 169 | 124 | 296 | 266 | 35.0 | 34.4 | 45.6 |
| Somalia | 23.6 | 18.5 | 11.9 | 155 | 112 | 85 | 200 | 178 | 41.0 | 47.0 | 55.0 |
| South Africa | 13.8 | 8.8 | 6.2 | 76 | 48 | 32 | 92 | 77 | 53.9 | 62.9 | 70.7 |
| Sudan | 19.8 | 13.8 | 9.1 | 110 | 71 | 51 | 139 | 123 | 43.7 | 51.0 | 61.0 |
| Swaziland | 18.0 | 10.7 | 6.1 | 133 | 65 | 40 | - | - | 47.3 | 57.5 | 67.1 |
| Togo | 19.4 | 15.0 | 10.0 | 129 | 86 | 59 | 147 | 130 | 45.5 | 51.0 | 58.1 |
| Tunisia | 12.3 | 6.4 | 5.4 | 120 | 37 | 22 | 58 | 55 | 55.6 | 67.8 | 73.4 |
| Uganda | 18.5 | 21.8 | 12.5 | 116 | 113 | 80 | 203 | 185 | 46.5 | 41.0 | 51.9 |
| United Republic of Tanzania | 18.5 | 14.4 | 9.0 | 125 | 80 | 57 | 143 | 127 | 46.5 | 50.4 | 59.7 |
| Zambia | 18.0 | 17.8 | 10.9 | 100 | 103 | 64 | 156 | 150 | 47.3 | 44.2 | 53.8 |
| Zimbabwe | 15.1 | 13.6 | 9.0 | 93 | 68 | 44 | 122 | 108 | 51.5 | 50.7 | 58.8 |

- : data not available or negligible

(1): former Zaïre

(2): including Agalexa, Rodrigues and St. Brandon

Technical Notes

Table 1: Total Population (1998) and other Demographic Indicators

The first table gives some basic demographic indicators. Some of them are more extensively covered in the tables that follow.

Estimates and projections of the **total population** and population by age and sex are prepared by the Population Division of the United Nations Secretariat and revised every two years in order to incorporate new data. In general, these population figures are estimates of persons resident in the country or area at mid-year. They are usually based on population census data adjusted to the specified year, taking account of birth, death and international migration rates as determined from population surveys and registers and other national sources as available. Short-term residents and visitors in the country or area for less than one year are usually excluded.

Source: United Nations Statistical Division Website: <http://www.un.org/Depts/unsd/social/poptn.htm>. Original Sources: "Sex and Age Annual 1950-2050 (the 1996 Revision)" supplemented by Demographic Yearbook 1996 (United Nations publication, Sales No. E/F.98.XIII.1), Population and Vital Statistics Report, Statistical papers, Series A Vol. L, No.3 (Data available as of 1 July 1998) and data compiled from national census reports.

The **sex ratio** is calculated as the number of males per 100 females. The approach used in estimating rates of population change is one of continuous growth, which considers that population grows exponentially.

Source: United Nations Statistical Division Website: <http://www.un.org/Depts/unsd/social/poptn.htm>. Original Sources: "Sex and Age Annual 1950-2050 (the 1996 Revision)" supplemented by Demographic Yearbook 1996 (United Nations publication, Sales No. E/F.98.XIII.1), Population and Vital Statistics Report, Statistical papers, Series A Vol. L, No.3 (Data available as of 1 July 1998) and data compiled from national census reports.

Crude birth rate (CBR): see technical notes table 3.

Crude death rate (CDR): see technical notes table 5

The **average annual rate of population growth** in percentages is an average for the period 1950-2000. A more extensive coverage of this indicator is given in table 2.

Source: Original data come from the UNPD; World Population Prospects: the 1996 revision, New York, UN, 1997. The calculations are made by the ECA-FSSDD.

Total Fertility Rate (TFR): see technical notes table 3.

Life expectancy at birth is the average number of years a new-born infant can expect to live under current mortality levels. See technical notes table 5.

Source: UNPD; World Population Prospects: the 1996 revision, New York, UN, 1997.

Population density is the number of persons per square kilometre of total surface area in 1996. Figures are merely the quotients of population divided by surface area and are not to be considered either as reflecting density in the urban sense or as indicating the supporting power of a territory's land and resources.

Source: DESA: 1996 Demographic Yearbook, New York, UN, 1998.

Table 2: Trends in Population Size and Population Growth Rate

The **population size** represents the size of the total population as of July 1st of each year. Data include official national sources (such as population censuses, demographic surveys, civil registration records and other administrative records), as well as surveys and reports on population of NGO's, research institutes etc. The estimations and projections for these data are undertaken by the United Nations Population Division. Data for 1995-2050 come from the UN medium fertility variant projection, which assumes that fertility everywhere will reach replacement level.

Source: UNPD; World Population Prospects: the 1996 revision, New York, UN, 1997.

The **average annual rate of population growth** in percentages. Data for 1995-2050 come from the UN medium fertility variant projection, which assumes that fertility everywhere will reach replacement level.

Source: UNPD; World Population Prospects: the 1996 revision, New York, UN, 1997.

Table 3: Fertility Trends

The **crude birth rate (CBR)** is the annual number of live births per 1000 total population. Formula: $CBR = (\text{Number of Live births}) / (\text{Total Population}) \times 1000$. CBR projections are carried out at 5-year intervals from 1995 to 2050 according to the three fertility variants (high, medium, and

low) and the constant-fertility scenario. When preparing assumptions for the United Nations projections, it is common practice to assume that orderly progress will be made and that, during the projection period, such catastrophes as new wars, famines or epidemics will not occur. The data presented here come from the UNPD medium fertility variant projection.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The **total fertility rate** (TFR) is the average number of children a woman would have in her lifetime assuming that current age-specific birth rates remain constant throughout her childbearing years (usually considered to be ages 15 to 49). From 1995 these are projections assuming the medium variant fertility. The three fertility variants that are prepared are referred to as high, medium and low, depending upon the assumed levels of future fertility.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

Table 4: Reproductive Health Indicators

The first three columns give the **percentage of women of age 15-19**. From 1995 onwards these are projections assuming the medium variant fertility.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The data for **contraceptive prevalence** are derived from sample survey reports and estimate the proportion of married women (including woman in consensual unions) currently using, respectively, any method or modern methods of contraception. Modern or clinic and supply methods include male and female sterilization, IUD, the pill, injectables, hormonal implants, condoms and female barrier methods. These numbers are roughly but not completely comparable across countries due to variation in populations surveyed by age, in the timing of the surveys, and in the details of the questions. All the data were collected after 1975. Nearly 80% of the data refer to the period 1987-1994.

Source: UNFPA; *The State of the World Population: 1998, the New Generations*, New York, UNFPA, 1998. Original source: UNPD; *World Population Monitoring 1998*, New York, UN, 1998 and updated tabulations provided by UNPD.

The **percentage of births attended by skilled personnel** includes doctors, nurses and midwives.

Source: PRB, "1998 Women of Our World", Washington, Population Reference Bureau, 1998.

The **maternal mortality rate** is the number of deaths of women from causes related to pregnancy and childbirth per 100,000 live births in a given year. Precision is difficult, though relative magnitudes are informative. Estimates below 50 are not rounded, those 50-100 are rounded to the nearest 5; 100-1,000 to the nearest 10; and, above 1,000 to the nearest 100. Several of the maternal mortality estimates for around 1990 differ from official government figures reported by countries. The estimates are based on reported figures wherever possible, using approaches to improve the comparability of information from different sources. They are reviewed by WHO and UNICEF, UNFPA, academic institutions and other agencies and will be revised where necessary, as part of the ongoing process of improving maternal mortality data.

Source: UNFPA; *The State of the World Population: 1998, the New Generations*, New York, UNFPA, 1998. Original source: WHO and UNICEF, *Revised 1990 Estimates of Maternal Mortality, a New Approach* by WHO and UNICEF, New York, WHO and UNICEF, 1996.

Most used method of family planning and abortion policy: see table for details on the categorization used.

Source: PRB, "1998 Women of Our World", Washington, Population Reference Bureau, 1998.

Table 5: Mortality Trends

The **crude death rate** (CDR) is the annual number of deaths per 1000 living persons. From 1995 onwards these are projections, with the following methodology: the mortality assumptions for each country in the UN projections are operationalized, first, by assuming future changes in life expectancy at birth by sex; and secondly, by calculating age- and sex-specific survival ratios that are consistent with both the assumed life expectancy and the current national age-sex patterns of mortality. For each country, a future course of life expectancy is generally projected to rise continuously unless information indicates life expectancy is stagnating or declining during the early 1990s. In these cases, a constant or declining life expectancy may be assumed after 1990. The factoring in of the potential mortality impact of the AIDS epidemic is one example of such a circumstance. Three working models of mortality improvement have been developed: a fast life expectancy rise; a middle life expectancy rise and a slow life expectancy rise. One of these working models is used for most countries, although when special circumstances exist, the projected course of mortality for some countries is assumed to depart from these models.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The **infant mortality rate (IMR)** is the annual number of deaths of infants under age 1 per 1000 live births. This mortality level in the first year of life is most sensitive to development levels.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

The **under 5 mortality rate** relates to the incidence of mortality to infants and young children. It reflects therefore the impact of diseases and other causes of death on infants, toddlers and young children. The measure is, therefore more sensitive than infant mortality to the burden of childhood diseases including those preventable by improved nutrition and by immunisation programs. Under-5 mortality is here expressed as deaths to children under 5 per 1,000 live births in a given year. The estimate refers to the period 1990-1995.

Source: UNFPA; *The State of the World Population: 1998, the New Generations*, New York, UNFPA, 1998. The data originally come from UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

Life expectancy at birth is the average number of years a newborn infant can expect to live under current mortality levels. See the technical notes of the selected socio-economic indicators for a more extensive description.

Source: UNPD; *World Population Prospects: the 1996 revision*, New York, UN, 1997.

III. AGRICULTURAL INDICATORS

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Table 1. Labour Force in Agriculture

| Countries | Rural population | | | | Labour force in Agriculture | | Percentage of labour force in agriculture | | Economically active population in agriculture | | | |
|--------------------------------------|------------------|----------------|--------------------------------|-------------|-----------------------------|----------------|---|-------------|---|----------------|-----------------------------------|-------------|
| | (thousands) | | Average annual growth rate (%) | | (thousands) | | (%) | | (thousands) | | Average annual rate of change (%) | |
| | 1990 | 1996 | 1980-1990 | 1990-1996 | 1980 | 1990 | 1980 | 1990 | 1990 | 1996 | 1980-1990 | 1990-1996 |
| Africa | 427,286 | 476,422 | 2.14 | 1.83 | 138,913 | 166,467 | 68.8 | 63.0 | 167,042 | 187,095 | 1.81 | 1.91 |
| Algeria | 12,036 | 12,543 | 1.27 | 0.69 | 1,738 | 1,840 | 35.8 | 26.1 | 1,835 | 2,270 | 0.51 | 3.61 |
| Angola | 6,684 | 7,649 | 1.87 | 2.27 | 2,655 | 3,208 | 76.4 | 74.5 | 3,223 | 3,775 | 1.97 | 2.67 |
| Benin | 3,069 | 3,385 | 2.02 | 1.65 | 1,117 | 1,385 | 67.3 | 63.5 | 1,335 | 1,449 | 1.82 | 1.38 |
| Botswana | 744 | 547 | -0.33 | -5.00 | 253 | 259 | 63.9 | 46.4 | 257 | 293 | 0.20 | 2.21 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 7,851 | 9,014 | 2.19 | 2.33 | 3,683 | 4,508 | 92.2 | 92.4 | 4,337 | 5,000 | 2.23 | 2.40 |
| Burundi | 5,143 | 5,736 | 2.67 | 1.84 | 2,107 | 2,702 | 92.8 | 91.6 | 2,704 | 3,065 | 2.53 | 2.11 |
| Cameroon | 6,857 | 7,377 | 1.45 | 1.23 | 2,663 | 3,228 | 73.2 | 69.7 | 3,218 | 3,505 | 1.96 | 1.43 |
| Cape Verde | 190 | 174 | -1.50 | -1.46 | 34 | 39 | 36.7 | 30.6 | 39 | 41 | 1.38 | 0.84 |
| Central African Republic | 1,831 | 2,323 | 2.00 | 1.68 | 1,030 | 1,155 | 84.7 | 80.2 | 1,154 | 1,234 | 1.15 | 1.12 |
| Chad | 4,383 | 5,049 | 1.89 | 2.39 | 1,961 | 2,298 | 87.9 | 83.2 | 2,238 | 2,482 | 1.32 | 1.74 |
| Comoros | 377 | 436 | 2.52 | 2.45 | 123 | 147 | 80.6 | 77.4 | 180 | 215 | 2.54 | 3.01 |
| Congo | 1,041 | 1,086 | 0.56 | 0.71 | 408 | 465 | 58.1 | 48.7 | 455 | 487 | 1.10 | 1.14 |
| Côte d'Ivoire | 6,959 | 7,843 | 2.68 | 2.01 | 2,128 | 2,675 | 64.8 | 59.9 | 2,650 | 2,942 | 2.23 | 1.76 |
| Democratic Republic of the Congo (1) | 26,952 | 33,257 | 3.42 | 3.57 | 8,600 | 10,769 | 71.6 | 67.8 | 10,771 | 12,709 | 2.28 | 2.80 |
| Djibouti | 102 | 109 | 3.26 | 1.11 | - | - | - | - | - | - | - | - |
| Egypt | 31,570 | 34,901 | 2.54 | 1.69 | 8,182 | 7,375 | 57.1 | 40.3 | 7,922 | 8,386 | -1.00 | 0.95 |
| Equatorial Guinea | 226 | 232 | 3.64 | 0.44 | 74 | 112 | 78.3 | 74.8 | 112 | 124 | 3.95 | 1.71 |
| Eritrea (2) | 2,425 | 2,709 | 1.65 | 1.86 | 1,014 | 1,275 | 83.1 | 80.5 | 1,210 a | 1,298 | - | 2.37 a |
| Ethiopia (2) | 41,672 | 49,016 | 2.50 | 2.74 | 15,117 | 19,574 | 89.3 | 86.2 | 19,855 a | 21,318 | - | 2.40 a |
| Ethiopia PDR (2) | - | - | - | - | - | - | - | - | 19,658 | - | 2.35 | - |
| Gabon | 518 | 540 | 1.28 | 0.70 | 244 | 236 | 65.5 | 51.5 | 235 | 223 | -0.08 | -0.87 |
| Gambia | 684 | 802 | 2.88 | 2.69 | 278 | 381 | 84.4 | 81.9 | 382 | 463 | 3.23 | 3.26 |
| Ghana | 9,932 | 11,351 | 2.93 | 2.25 | 3,130 | 4,113 | 61.5 | 59.3 | 4,155 | 4,864 | 2.81 | 2.66 |
| Guinea | 4,278 | 5,273 | 1.72 | 3.55 | 2,084 | 2,458 | 90.9 | 87.2 | 2,459 | 3,078 | 1.67 | 3.81 |
| Guinea-Bissau | 771 | 850 | 1.57 | 1.64 | 355 | 397 | 87.5 | 85.3 | 394 | 432 | 1.25 | 1.55 |
| Kenya | 17,823 | 19,601 | 2.47 | 1.60 | 6,409 | 8,880 | 82.2 | 79.5 | 8,940 | 10,734 | 3.34 | 3.09 |
| Lesotho | 1,425 | 1,564 | 1.87 | 1.56 | 231 | 288 | 40.4 | 40.1 | 287 | 329 | 2.19 | 2.30 |
| Liberia | 1,491 | 1,219 | 2.03 | -3.30 | 603 | 714 | 76.4 | 72.3 | 756 | 631 | 2.27 | -2.97 |
| Libyan Arab Jamahiriya | 826 | 789 | -1.22 | -0.76 | 235 | 142 | 24.9 | 10.9 | 142 | 120 | -4.91 | -2.77 |
| Madagascar | 9,694 | 11,205 | 2.72 | 2.44 | 3,522 | 4,339 | 81.6 | 78.2 | 4,632 | 5,483 | 2.53 | 2.85 |
| Malawi | 8,228 | 8,484 | 3.89 | 0.51 | 2,696 | 3,629 | 87.3 | 86.6 | 3,980 | 4,036 | 3.90 | 0.23 |
| Mali | 7,019 | 8,077 | 2.29 | 2.37 | 3,021 | 3,649 | 89.0 | 85.8 | 3,974 | 4,567 | 2.37 | 2.35 |
| Mauritania | 1,132 | 1,105 | 0.05 | -0.40 | 532 | 502 | 71.5 | 55.2 | 502 | 571 | -0.60 | 2.17 |
| Mauritius | 629 | 671 | 1.22 | 1.08 | 93 | 72 | 27.2 | 16.7 | 72 | 65 | -2.53 | -1.69 |
| Morocco | 12,447 | 12,820 | 0.87 | 0.49 | 3,902 | 4,034 | 56.0 | 44.7 | 4,015 | 4,142 | 0.28 | 0.52 |
| Mozambique | 10,405 | 11,539 | -0.10 | 1.74 | 5,632 | 6,222 | 84.3 | 82.7 | 6,211 | 7,579 | 0.98 | 3.37 |
| Namibia | 932 | 992 | 1.60 | 1.05 | 252 | 277 | 56.4 | 49.1 | 276 | 289 | 0.91 | 0.77 |
| Niger | 6,487 | 7,700 | 2.88 | 2.90 | 2,514 | 3,350 | 91.4 | 89.9 | 3,378 | 16,963 | 2.87 | 30.86 |
| Nigeria | 62,489 | 68,495 | 1.72 | 1.54 | 15,926 | 16,542 | 54.0 | 43.0 | 16,532 | 4,000 | 0.25 | -21.06 |
| Réunion | 218 | 210 | -0.53 | -0.62 | - | - | - | - | 16 | 12 | -10.40 | -4.68 |
| Rwanda | 6,584 | 5,086 | 2.96 | -4.21 | 2,446 | 3,330 | 92.8 | 91.7 | 3,327 | 2,619 | 3.12 | -3.91 |
| Saint Helena | 3 | 2 | -2.84 | -6.53 | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | 73 | 76 | 1.17 | 0.67 | - | - | - | - | - | - | - | - |
| Senegal | 4,369 | 4,749 | 2.10 | 1.40 | 2,052 | 2,535 | 80.7 | 76.7 | 2,508 | 2,858 | 2.02 | 2.20 |
| Seychelles | 35 | 33 | -0.82 | -0.98 | - | - | - | - | - | - | - | - |
| Sierra Leone | 2,798 | 2,838 | 1.31 | 0.24 | 872 | 1,008 | 69.8 | 67.4 | 1,004 | 1,029 | 1.43 | 0.41 |
| Somalia | 6,535 | 7,270 | 2.27 | 1.79 | 2,407 | 2,875 | 78.3 | 75.3 | 2,875 | 3,106 | 1.80 | 1.30 |
| South Africa | 18,966 | 21,413 | 2.29 | 2.04 | 1,893 | 1,939 | 17.3 | 13.5 | 1,938 | 1,837 | 0.24 | -0.89 |
| Sudan | 17,657 | 18,473 | 1.68 | 0.76 | 4,935 | 6,069 | 72.2 | 69.5 | 6,202 | 6,826 | 2.31 | 1.61 |
| Swaziland | 548 | 599 | 1.77 | 1.49 | 101 | 106 | 50.0 | 39.5 | 100 | 113 | 0.00 | 2.06 |
| Togo | 2,521 | 2,890 | 2.26 | 2.30 | 786 | 970 | 68.8 | 65.6 | 968 | 1,084 | 2.13 | 1.90 |
| Tunisia | 3,432 | 3,415 | 0.94 | -0.08 | 851 | 807 | 38.9 | 28.1 | 807 | 900 | -0.62 | 1.83 |
| Uganda | 14,791 | 17,655 | 2.14 | 2.99 | 5,764 | 6,983 | 87.1 | 84.5 | 7,169 | 8,266 | 1.96 | 2.40 |
| United Republic of Tanzania | 20,182 | 23,118 | 2.45 | 2.29 | 8,156 | 11,100 | 85.8 | 84.4 | 11,081 | 13,010 | 3.11 | 2.71 |
| Zambia | 4,192 | 4,693 | 1.96 | 1.90 | 1,825 | 2,430 | 76.1 | 74.6 | 2,207 | 2,480 | 1.91 | 1.96 |
| Zimbabwe | 7,058 | 7,724 | 2.45 | 1.51 | 2,280 | 3,075 | 72.4 | 68.2 | 3,119 | 3,436 | 3.02 | 1.63 |

- : data not available.

a : Data cover 1993. For the average annual rate of change, it refers to the period 1993-1996.

(1) : Former Zaïre

(2) : For the rural population, the labour force in agriculture and the percentage of labour force in agriculture, the figures are given separately for Eritrea and Ethiopia.

For the economically active population, the data are given separately for Eritrea and Ethiopia from 1993 onwards.

Table 2. Agricultural Land Use

| Countries | Total land area (000 HA) 1996 | Cropland 19 85 | | Cropland 19 96 | | Irrigated land as a percentage of cropland (%) | | Land use as a percentage of total land area (%) | | | | | |
|--------------------------------------|--|-------------------|--------------------|-------------------|--------------------|--|------------|--|------------|-------------|-------------|-------------|-------------|
| | | Total (000 HA) | Per capita (HA) | Total (000 HA) | Per capita (HA) | 1984-1986 | 1994-1996 | as a percentage of total land area (%) | | | | | |
| | | | | | | | | Cropland Permanent pasture Forest & Woods | | | | | |
| | | | | | | | | 1986 | 1996 | 1986 | 1994 | 1986 | 1994 |
| Africa | 2,963,568 | 182,032 | 0.33 | 197,972 | 0.27 | 5.6 | 6.3 | 6.2 | 6.7 | 30.1 | 29.8 | 24.1 | 24.0 |
| Algeria | 238174 | 7,511 | 0.34 | 8,040 | 0.28 | 4.3 | 6.9 | 3.2 | 3.4 | 13.1 | 13.3 | 1.8 | 1.7 |
| Angola | 124670 | 3,400 | 0.42 | 3,500 | 0.31 | 2.2 | 2.1 | 2.7 | 2.8 | 43.3 | 43.3 | 18.6 | 18.4 |
| Benin | 11062 | 1,838 | 0.46 | 1,880 | 0.34 | 0.3 | 0.5 | 16.6 | 17.0 | 4.0 | 4.0 | 33.2 | 30.7 |
| Botswana | 56673 | 400 | 0.37 | 346 | 0.23 | 0.5 | 0.3 | 0.7 | 0.6 | 45.2 | 45.2 | 46.8 | 46.8 |
| British Indian Ocean Terri. | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 27360 | 3,035 | 0.39 | 3,430 | 0.32 | 0.4 | 0.7 | 11.3 | 12.5 | 21.9 | 21.9 | 50.4 | 50.4 |
| Burundi | 2568 | 1,180 | 0.25 | 1,100 | 0.18 | 1.1 | 1.3 | 46.0 | 42.8 | 38.6 | 42.4 | 12.7 | 12.7 |
| Cameroon | 46540 | 6,965 | 0.70 | 7,040 | 0.52 | 0.3 | 0.3 | 15.0 | 15.1 | 4.3 | 4.3 | 77.1 | 77.1 |
| Cape Verde | 403 | 40 | 0.13 | 41 | 0.10 | 5.0 | 7.3 | 9.9 | 10.2 | 6.2 | 6.2 | 0.2 | 0.2 |
| Central African Republic | 62298 | 1,983 | 0.76 | 2,020 | 0.60 | - | - | 3.2 | 3.2 | 4.8 | 4.8 | 75.0 | 75.0 |
| Chad | 125920 | 3,155 | 0.63 | 3,256 | 0.50 | 0.3 | 0.4 | 2.5 | 2.6 | 35.7 | 35.7 | 25.7 | 25.7 |
| Comoros | 223 | 106 | 0.24 | 118 | 0.19 | - | - | 50.2 | 52.9 | 6.7 | 6.7 | 17.9 | 17.9 |
| Congo | 34150 | 162 | 0.08 | 170 | 0.06 | 0.6 | 0.6 | 0.5 | 0.5 | 29.3 | 29.3 | 58.3 | 58.3 |
| Côte d'Ivoire | 31800 | 5,180 | 0.52 | 7,200 | 0.49 | 1.1 | 1.0 | 16.6 | 22.6 | 40.9 | 40.9 | 31.4 | 30.2 |
| Democratic Republic of the Congo (1) | 226705 | 7,800 | 0.25 | 7,900 | 0.17 | 0.1 | 0.1 | 3.5 | 3.5 | 6.6 | 6.6 | 73.2 | 73.2 |
| Djibouti | 2318 | - | - | - | - | - | - | - | - | 56.1 | 56.1 | 0.9 | 0.9 |
| Egypt | 99545 | 2,497 | 0.05 | 3,266 | 0.05 | 100.0 | 100.0 | 2.6 | 3.3 | - | - | 0.0 | 0.0 |
| Equatorial Guinea | 2805 | 230 | 0.74 | 230 | 0.56 | - | - | 8.2 | 8.2 | 3.7 | 3.7 | 65.2 | 65.2 |
| Eritrea (2) | 10100 | - | - | 520 | 0.16 | - | 5.4 | - | 5.1 | - | 69.0 | - | 7.3 |
| Ethiopia (2) | 100000 | - | - | 11,950 | 0.20 | - | 1.6 | - | 12.0 | - | 20.0 | - | 13.3 |
| Ethiopia PDR (2) | - | 13930 | 0.32 | - | - | 1.2 | - | 12.7 | - | 41 | - | 13 | - |
| Gabon | 25767 | 452 | 0.56 | 495 | 0.45 | 0.9 | 0.8 | 1.8 | 1.9 | 18.2 | 18.2 | 77.4 | 77.2 |
| Gambia | 1000 | 169 | 0.23 | 175 | 0.15 | 0.6 | 1.1 | 17.7 | 17.5 | 19.0 | 19.5 | 10.0 | 9.3 |
| Ghana | 22754 | 4,000 | 0.31 | 4,500 | 0.25 | 0.2 | 0.1 | 17.6 | 19.8 | 36.9 | 36.9 | 42.2 | 40.4 |
| Guinea | 24572 | 725 | 0.15 | 885 | 0.12 | 12.5 | 10.9 | 3.0 | 3.6 | 43.5 | 43.5 | 27.3 | 27.3 |
| Guinea-Bissau | 2812 | 320 | 0.37 | 340 | 0.31 | 5.3 | 5.0 | 11.9 | 12.1 | 38.4 | 38.4 | 38.1 | 38.1 |
| Kenya | 56914 | 4,490 | 0.23 | 4,520 | 0.14 | 0.9 | 1.5 | 7.9 | 7.9 | 37.4 | 37.4 | 29.5 | 29.5 |
| Lesotho | 3035 | 304 | 0.19 | 320 | 0.15 | 1.0 | 0.7 | 9.5 | 10.5 | 65.9 | 65.9 | - | - |
| Liberia | 9632 | 371 | 0.17 | 327 | 0.12 | 0.5 | 0.6 | 3.9 | 3.4 | 20.8 | 20.8 | 47.8 | 47.8 |
| Libyan Arab Jamahiriya | 175954 | 2,127 | 0.56 | 2,115 | 0.38 | 14.1 | 22.2 | 1.2 | 1.2 | 7.6 | 7.6 | 0.5 | 0.5 |
| Madagascar | 58154 | 3,040 | 0.28 | 3,100 | 0.20 | 27.6 | 35.0 | 5.3 | 5.3 | 41.3 | 41.3 | 39.9 | 39.9 |
| Malawi | 9408 | 1,470 | 0.20 | 1,700 | 0.17 | 1.2 | 1.6 | 16.9 | 18.1 | 19.6 | 19.6 | 39.8 | 39.8 |
| Mali | 122019 | 2,073 | 0.26 | 4,650 | 0.42 | 2.9 | 2.3 | 1.7 | 3.8 | 24.6 | 24.6 | 9.8 | 9.5 |
| Mauritania | 102522 | 305 | 0.17 | 500 | 0.21 | 16.1 | 10.3 | 0.3 | 0.5 | 38.3 | 38.3 | 4.4 | 4.3 |
| Mauritius | 203 | 107 | 0.11 | 106 | 0.09 | 15.6 | 17.0 | 52.7 | 52.2 | 3.4 | 3.4 | 28.6 | 21.7 |
| Morocco | 44630 | 8,309 | 0.38 | 9,661 | 0.35 | 15.0 | 13.0 | 18.8 | 21.6 | 46.8 | 47.1 | 17.7 | 20.1 |
| Mozambique | 78409 | 3,090 | 0.23 | 3,180 | 0.18 | 2.9 | 3.4 | 3.9 | 4.1 | 56.1 | 56.1 | 22.1 | 22.1 |
| Namibia | 82329 | 662 | 0.56 | 820 | 0.52 | 0.6 | 0.8 | 0.8 | 1.0 | 46.2 | 46.2 | 15.2 | 15.2 |
| Niger | 126670 | 3,530 | 0.53 | 5,000 | 0.53 | 0.9 | 1.4 | 2.8 | 3.9 | 7.1 | 8.2 | 2.0 | 2.0 |
| Nigeria | 91077 | 31,035 | 0.37 | 32,909 | 0.29 | 0.6 | 0.7 | 34.4 | 36.1 | 43.9 | 43.9 | 17.6 | 15.7 |
| Réunion | 250 | 55 | 0.10 | 42 | 0.06 | 13.9 | 27.1 | 22.0 | 16.8 | 4.0 | 4.8 | 35.6 | 35.6 |
| Rwanda | 2467 | 1,119 | 0.18 | 1,150 | 0.21 | 0.4 | 0.3 | 45.8 | 46.6 | 28.4 | 28.2 | 10.1 | 10.1 |
| Saint Helena | 31 | 2 | 0.33 | 4 | 0.57 | - | - | 6.5 | 12.9 | 25.8 | 25.8 | 3.2 | 3.2 |
| Sao Tome and Principe | 96 | 37 | 0.35 | 41 | 0.30 | 27.3 | 24.4 | 38.5 | 42.7 | 1.0 | 1.0 | - | - |
| Senegal | 19253 | 2,350 | 0.37 | 2,265 | 0.26 | 3.8 | 3.1 | 12.2 | 11.8 | 29.6 | 29.6 | 39.5 | 38.7 |
| Seychelles | 45 | 6 | 0.09 | 7 | 0.09 | - | - | 13.3 | 15.6 | - | - | 11.1 | 11.1 |
| Sierra Leone | 7162 | 528 | 0.15 | 540 | 0.13 | 5.2 | 5.4 | 7.5 | 7.5 | 30.8 | 30.7 | 26.5 | 28.5 |
| Somalia | 62734 | 1,025 | 0.13 | 1,020 | 0.10 | 18.2 | 19.6 | 1.6 | 1.6 | 68.5 | 68.5 | 23.9 | 25.5 |
| South Africa | 122104 | 13,169 | 0.40 | 15,825 | 0.37 | 8.7 | 8.1 | 10.9 | 13.0 | 66.6 | 66.7 | 6.7 | 6.7 |
| Sudan | 237600 | 12,658 | 0.59 | 13,000 | 0.48 | 15.4 | 15.0 | 5.3 | 5.5 | 43.4 | 46.3 | 18.1 | 17.7 |
| Swaziland | 1720 | 164 | 0.25 | 180 | 0.19 | 36.3 | 38.3 | 9.5 | 10.5 | 67.7 | 66.9 | 6.2 | 5.8 |
| Togo | 5439 | 2,360 | 0.78 | 2,430 | 0.58 | 0.3 | 0.3 | 43.4 | 44.7 | 3.7 | 3.7 | 18.8 | 16.5 |
| Tunisia | 15536 | 4,938 | 0.67 | 4,878 | 0.54 | 6.1 | 7.5 | 31.5 | 31.4 | 21.6 | 20.0 | 3.9 | 4.4 |
| Uganda | 19965 | 5,600 | 0.45 | 6,810 | 0.34 | 0.1 | 0.1 | 33.6 | 34.1 | 9.0 | 9.0 | 30.1 | 31.6 |
| United Republic of Tanzania | 88359 | 3,030 | 0.14 | 3,985 | 0.13 | 4.2 | 4.6 | 3.8 | 4.5 | 39.6 | 39.6 | 38.1 | 37.0 |
| Zambia | 74339 | 5,188 | 0.81 | 5,273 | 0.64 | 0.5 | 0.9 | 7.0 | 7.1 | 40.4 | 40.4 | 40.4 | 43.0 |
| Zimbabwe | 38685 | 2,810 | 0.33 | 3,210 | 0.27 | 3.1 | 4.6 | 7.3 | 8.3 | 44.2 | 44.5 | 23.8 | 22.6 |

- : data not available.

(1) : Former Zaire

(2) : For the data covering the 80s, no distinction has been made between Ethiopia and Eritrea; for that period they come under Ethiopia PDR.

Table 3. Food Production and Change

| Countries | Cereals, total | | | | | Roots and tubers, total | | | | |
|--------------------------------------|----------------|----------------|-----------------|------------|------------|-------------------------|----------------|-----------------|------------|------------|
| | Production | | Average annual | | | Production | | Average annual | | |
| | (000 MT) | | growth rate (%) | | | (000 MT) | | growth rate (%) | | |
| | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 |
| Africa | 92,069 | 109,492 | 1.8 | 2.5 | 2.5 | 108,822 | 135,619 | 0.4 | 4.2 | 3.2 |
| Algeria | 1,627 | 870 | 1.6 | -3.9 | -8.6 | 809 | 948 | 8.5 | 3.2 | 2.3 |
| Angola | 249 | 461 | -2.8 | -5.4 | 9.2 | 1,799 | 2,547 | -2.7 | 2.9 | 5.1 |
| Benin | 546 | 891 | 2.0 | 4.7 | 7.2 | 2,020 | 3,395 | 1.7 | 4.4 | 7.7 |
| Botswana | 53 | 31 | 14.2 | 1.9 | -7.1 | 7 | 10 | 3.0 | 0.0 | 5.2 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 1,518 | 2,015 | -0.2 | 3.8 | 4.1 | 62 | 63 | 2.4 | -6.9 | 0.2 |
| Burundi | 293 | 310 | 2.5 | 3.1 | 0.8 | 1,413 | 1,297 | 1.5 | 3.2 | -1.2 |
| Cameroon | 816 | 1,126 | 1.9 | -0.9 | 4.7 | 2,213 | 2,435 | -0.8 | 3.1 | 1.4 |
| Cape Verde | 11 | 10 | 24.8 | 3.0 | -1.9 | 20 | 6 | 5.6 | 5.8 | -14.7 |
| Central African Republic | 95 | 149 | 0.8 | -0.5 | 6.6 | 828 | 1,010 | 1.7 | -2.8 | 2.9 |
| Chad | 601 | 979 | -1.6 | 0.5 | 7.2 | 682 | 596 | 3.6 | 4.7 | -1.9 |
| Comoros | 19 | 21 | 3.0 | 0.2 | 1.8 | 57 | 65 | -0.8 | 1.8 | 1.8 |
| Congo | 22 | 20 | 3.9 | 6.7 | -1.4 | 762 | 861 | 2.2 | 1.2 | 1.8 |
| Côte d'Ivoire | 1,239 | 1,963 | 3.8 | 3.7 | 6.8 | 4,239 | 5,095 | 3.7 | 2.6 | 2.7 |
| Democratic Republic of the Congo (1) | 1,491 | 1,443 | 2.9 | 5.3 | -0.5 | 19,486 | 17,665 | 2.4 | 3.6 | -1.4 |
| Djibouti | 0.01 | 0.01 | - | - | 3.8 | - | - | - | - | - |
| Egypt | 13,022 | 17,492 | 0.8 | 4.9 | 4.3 | 1,841 | 2,077 | 7.7 | 2.8 | 1.7 |
| Equatorial Guinea | - | - | - | - | - | 75 | 85 | -2.7 | 3.6 | 1.8 |
| Eritrea (2) | 87 a | 130 | - | - | 10.6 a | 109 a | 110 | - | - | 0.2 a |
| Ethiopia (2) | 6,906 a | 8,381 | - | - | 5.0 a | 1,965 a | 2,054 | - | - | 1.1 a |
| Ethiopia PDR (2) | 6,457 | - | 2.4 | 1.4 | - | 2,042 | - | 4.2 | 2.3 | - |
| Gabon | 24 | 32 | 2.3 | 8.1 | 4.3 | 376 | 416 | 7.8 | -0.1 | 1.4 |
| Gambia | 90 | 104 | -3.1 | 2.6 | 2.1 | 6 | 6 | -2.6 | 0.0 | 0.0 |
| Ghana | 844 | 1,791 | -2.4 | 2.3 | 11.3 | 4,409 | 11,096 | -1.3 | 3.4 | 14.1 |
| Guinea | 627 | 908 | 2.5 | -1.4 | 5.4 | 567 | 947 | -0.1 | -1.1 | 7.6 |
| Guinea-Bissau | 167 | 193 | 5.4 | 6.0 | 2.1 | 67 | 60 | 2.3 | 3.0 | -1.7 |
| Kenya | 2,729 | 2,768 | 0.7 | 2.0 | 0.2 | 1,512 | 2,007 | 2.1 | 2.4 | 4.1 |
| Lesotho | 242 | 206 | 0.6 | 2.2 | -2.3 | 45 | 90 | 16.2 | 9.6 | 10.4 |
| Liberia | 185 | 95 | 2.5 | -2.7 | -9.1 | 405 | 272 | 1.3 | 1.6 | -5.5 |
| Libyan Arab Jamahiriya | 273 | 322 | 10.0 | 2.4 | 2.4 | 145 | 135 | 26.3 | 3.5 | -1.0 |
| Madagascar | 2,581 | 2,742 | 0.8 | 1.4 | 0.9 | 3,160 | 3,368 | 2.7 | 3.2 | 0.9 |
| Malawi | 1,413 | 1,349 | 2.3 | 1.2 | -0.7 | 495 | 580 | 12.9 | -1.3 | 2.3 |
| Mali | 1,824 | 2,202 | -0.2 | 6.5 | 2.7 | 24 | 28 | -9.8 | -0.7 | 2.2 |
| Mauritania | 103 | 122 | -6.1 | 8.2 | 2.4 | 6 | 6 | -0.8 | 0.4 | -1.1 |
| Mauritius | 2 | 0.23 | -4.7 | 9.9 | -27.9 | 19 | 19 | 4.7 | 4.6 | -0.2 |
| Morocco | 6,276 | 4,102 | 0.6 | 3.3 | -5.9 | 903 | 1,197 | 7.0 | 5.2 | 4.1 |
| Mozambique | 734 | 1,531 | -0.3 | 1.0 | 11.1 | 4,720 | 5,475 | 2.2 | 2.4 | 2.1 |
| Namibia | 99 | 172 | 3.4 | 3.0 | 8.2 | 212 | 240 | 0.9 | 1.4 | 1.8 |
| Niger | 1,480 | 2,225 | 4.5 | -1.8 | 6.0 | 250 | 263 | -0.6 | 3.4 | 0.7 |
| Nigeria | 17,678 | 21,945 | -1.3 | 8.4 | 3.1 | 33,486 | 51,950 | -3.2 | 7.0 | 6.5 |
| Réunion | 11 | 17 | 2.5 | 0.2 | 7.2 | 16 | 11 | 2.8 | 4.5 | -5.1 |
| Rwanda | 306 | 220 | 1.9 | 1.2 | -4.6 | 1,603 | 1,397 | 6.1 | -0.4 | -1.9 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | 3 | 4 | -0.4 | 19.6 | 4.6 | 8 | 15 | 1.7 | -5.4 | 10.5 |
| Senegal | 977 | 783 | 2.4 | 3.8 | -3.1 | 85 | 49 | -13.6 | 7.5 | -7.5 |
| Seychelles | - | - | - | - | - | 0.15 | 0.15 | -11.3 | 0.0 | 0.0 |
| Sierra Leone | 562 | 467 | 1.5 | 0.2 | -2.6 | 141 | 363 | 0.2 | 1.2 | 14.5 |
| Somalia | 581 | 284 | 1.2 | 8.1 | -9.7 | 50 | 57 | 3.3 | 2.6 | 1.9 |
| South Africa | 11,082 | 13,076 | 5.0 | -1.7 | 2.4 | 1,325 | 1,640 | 1.0 | 6.1 | 3.1 |
| Sudan | 1,702 | 4,706 | 2.4 | -4.5 | 15.6 | 115 | 166 | -0.2 | -9.0 | 5.5 |
| Swaziland | 99 | 110 | 3.7 | -0.5 | 1.4 | 7 | 8 | 1.6 | -6.4 | 1.6 |
| Togo | 484 | 709 | -0.9 | 5.1 | 5.6 | 1,006 | 1,275 | 1.2 | 1.0 | 3.4 |
| Tunisia | 1,638 | 1,056 | 5.4 | 3.2 | -6.1 | 217 | 327 | 6.0 | 6.1 | 5.0 |
| Uganda | 1,580 | 1,625 | -4.2 | 3.9 | 0.4 | 5,337 | 4,545 | -2.2 | 4.5 | -2.3 |
| United Republic of Tanzania | 3,842 | 3,533 | 11.4 | 2.6 | -1.2 | 9,038 | 6,290 | 4.1 | 4.9 | -5.0 |
| Zambia | 1,210 | 1,125 | 2.5 | 2.1 | -1.0 | 583 | 811 | 5.4 | 5.7 | 4.8 |
| Zimbabwe | 2,560 | 2,673 | 3.3 | 2.6 | 0.6 | 127 | 192 | 1.6 | 4.6 | 6.0 |

- : data not available or equal to 0.

a : Data cover 1993. For the average annual growth rate, it refers to the period 1993-1996.

(1) : Former Zaire

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 3. Food Production and Change, continued

| Countries | Pulses, Total | | | | | Vegetables, total | | | | |
|--------------------------------------|---------------|--------------|-----------------|------------|------------|-------------------|---------------|-----------------|------------|------------|
| | Production | | Average annual | | | Production | | Average annual | | |
| | (000 MT) | | growth rate (%) | | | (000 MT) | | growth rate (%) | | |
| | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 |
| Africa | 6,508 | 7,395 | -0.2 | 2.9 | 1.8 | 32,214 | 39,198 | 2.9 | 3.2 | 2.8 |
| Algeria | 35 | 28 | 2.9 | -3.8 | -3.4 | 1,569 | 2,379 | 6.2 | 5.8 | 6.1 |
| Angola | 33 | 66 | -5.4 | -2.7 | 10.5 | 250 | 256 | 1.7 | 0.8 | 0.3 |
| Benin | 57 | 84 | 0.4 | 6.2 | 5.7 | 215 | 289 | 4.8 | 6.2 | 4.3 |
| Botswana | 17 | 11 | 4.1 | -0.6 | -6.0 | 16 | 15 | 3.2 | 0.0 | -1.0 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 53 | 66 | 1.7 | 1.5 | 3.1 | 229 | 254 | 1.2 | 4.1 | 1.5 |
| Burundi | 369 | 300 | 0.2 | 1.5 | -2.9 | 210 | 210 | 2.5 | 3.4 | 0.0 |
| Cameroon | 71 | 97 | 6.8 | -3.8 | 4.5 | 454 | 493 | 2.0 | 2.1 | 1.2 |
| Cape Verde | 7 | 3 | 38.6 | -1.9 | -14.3 | 6 | 21 | -12.4 | 31.5 | 19.1 |
| Central African Republic | 15 | 28 | 2.1 | 9.8 | 9.3 | 59 | 73 | 2.2 | 2.9 | 3.1 |
| Chad | 35 | 44 | -1.6 | -2.9 | 3.3 | 74 | 101 | 3.8 | 2.5 | 4.5 |
| Comoros | 7 | 10 | 12.8 | 3.6 | 4.1 | 5 | 5 | 3.0 | 5.7 | 0.0 |
| Congo | 9 | 10 | -2.5 | 7.2 | 1.6 | 42 | 47 | 4.6 | 2.5 | 1.5 |
| Côte d'Ivoire | 8 | 8 | 1.1 | 0.0 | 0.0 | 449 | 541 | 6.0 | 3.1 | 2.7 |
| Democratic Republic of the Congo (1) | 210 | 219 | 2.6 | 2.9 | 0.6 | 593 | 614 | 2.6 | 1.8 | 0.5 |
| Djibouti | - | - | - | - | - | 21 | 22 | 24.4 | 2.4 | 0.7 |
| Egypt | 531 | 537 | -2.7 | 6.7 | 0.2 | 9,246 | 12,201 | 3.6 | 2.2 | 4.0 |
| Equatorial Guinea | - | - | - | - | - | - | - | - | - | - |
| Eritrea (2) | 23 a | 33 | - | - | 10.0 a | 25 a | 30 | - | - | 4.7 a |
| Ethiopia (2) | 872 a | 1,138 | - | - | 6.9 a | 574 a | 583 | - | - | 0.4 a |
| Ethiopia PDR (2) | 711 | - | 2.1 | -2.5 | - | 591 | - | 3.3 | 1.7 | - |
| Gabon | 0.19 | 0.20 | 2.4 | 3.1 | 0.7 | 30 | 34 | -2.0 | 3.2 | 1.6 |
| Gambia | 4 | 4 | 4.4 | 0.0 | 0.0 | 8 | 8 | 1.1 | 1.3 | 0.7 |
| Ghana | 14 | 20 | 1.4 | -1.2 | 4.9 | 399 | 513 | 0.3 | 2.2 | 3.6 |
| Guinea | 60 | 60 | 2.1 | 3.4 | 0.0 | 420 | 420 | -0.8 | 0.3 | 0.0 |
| Guinea-Bissau | 2 | 2 | 2.9 | 1.2 | -1.0 | 20 | 20 | 2.0 | -0.9 | 0.0 |
| Kenya | 211 | 240 | -7.6 | 5.7 | 1.9 | 631 | 656 | 4.1 | 2.7 | -0.6 |
| Lesotho | 11 | 18 | 0.0 | 3.3 | 6.6 | 26 | 22 | 1.6 | 2.7 | -2.4 |
| Liberia | 3 | 1 | 3.2 | 0.0 | -14.5 | 71 | 76 | 2.0 | 1.0 | 1.0 |
| Libyan Arab Jamahiriya | 12 | 12 | 14.5 | 3.4 | -0.2 | 706 | 624 | 11.1 | 2.3 | -1.7 |
| Madagascar | 54 | 82 | -1.5 | 0.1 | 6.0 | 330 | 353 | 1.7 | 1.5 | 1.0 |
| Malawi | 284 | 280 | 2.0 | 3.3 | -0.2 | 251 | 241 | 4.5 | 1.7 | -0.6 |
| Mali | 30 | 71 | -0.2 | 0.6 | 13.0 | 296 | 318 | 4.8 | 5.7 | 1.0 |
| Mauritania | 20 | 34 | 3.4 | -3.3 | 7.8 | 8 | 9 | 6.1 | 1.5 | 2.6 |
| Mauritius | 1 | 2 | 9.8 | 1.9 | 2.8 | 44 | 73 | 1.2 | 5.5 | 7.4 |
| Morocco | 345 | 212 | -4.6 | 3.4 | -6.7 | 3,045 | 3,390 | 3.0 | 8.7 | 1.5 |
| Mozambique | 92 | 153 | -1.1 | 4.4 | 7.5 | 211 | 173 | 0.8 | 1.2 | -2.8 |
| Namibia | 8 | 8 | 3.3 | 2.6 | 0.0 | 9 | 9 | 2.0 | 5.0 | 0.0 |
| Niger | 223 | 428 | 9.3 | -2.1 | 9.8 | 340 | 264 | 9.0 | 9.2 | -3.6 |
| Nigeria | 1,404 | 1,700 | -4.6 | 9.2 | 2.8 | 4,268 | 6,040 | 0.2 | 4.5 | 5.1 |
| Réunion | 1 | 1 | 4.2 | -5.5 | 0.0 | 48 | 60 | 10.7 | 12.2 | 3.3 |
| Rwanda | 206 | 128 | 0.4 | -0.5 | -6.6 | 131 | 120 | 3.4 | -2.5 | -1.3 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | 3 | 6 | 6.8 | 0.8 | 12.1 |
| Senegal | 13 | 33 | 1.5 | -5.1 | 15.0 | 195 | 408 | 6.3 | 8.7 | 11.1 |
| Seychelles | - | - | - | - | - | 2 | 2 | 2.3 | 1.5 | 0.8 |
| Sierra Leone | 38 | 42 | 1.8 | 1.9 | 1.4 | 188 | 182 | 0.1 | 2.2 | -0.5 |
| Somalia | 14 | 13 | 1.8 | 4.2 | -1.1 | 71 | 73 | 1.0 | 10.4 | 0.4 |
| South Africa | 151 | 82 | 0.7 | 3.1 | -8.3 | 1,934 | 2,104 | 3.3 | 1.6 | 1.2 |
| Sudan | 100 | 168 | 2.9 | 0.3 | 7.6 | 848 | 1,064 | 1.8 | 0.9 | 3.3 |
| Swaziland | 4 | 7 | -0.8 | 4.3 | 8.1 | 13 | 11 | 2.6 | 0.9 | -3.1 |
| Togo | 22 | 53 | 0.2 | 0.3 | 13.5 | 159 | 159 | 2.7 | 9.4 | 0.1 |
| Tunisia | 60 | 72 | 11.0 | -4.3 | 2.7 | 1,540 | 1,720 | 5.5 | 4.3 | 1.6 |
| Uganda | 502 | 351 | -3.7 | 10.5 | -5.0 | 416 | 488 | 3.1 | 3.7 | 2.3 |
| United Republic of Tanzania | 385 | 375 | 5.8 | 2.0 | -0.4 | 1,099 | 1,022 | 1.5 | 1.2 | -1.0 |
| Zambia | 14 | 13 | -7.3 | 6.0 | -0.9 | 275 | 260 | 3.5 | 2.8 | -0.8 |
| Zimbabwe | 50 | 48 | 0.1 | 7.5 | -0.6 | 153 | 145 | 2.5 | 1.2 | -0.8 |

- : data not available or equal to 0.

a : Data cover 1993. For average annual growth rate, it refers to the period 1993-1996

(1) : Former Zaire

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 3. Food Production and Change, continued

| Countries | Meat, total | | | | | Milk, total | | | | |
|--------------------------------------|--------------|--------------|-----------------|------------|------------|--------------|--------------|-----------------|------------|------------|
| | Production | | Average annual | | | Production | | Average annual | | |
| | (000 MT) | | growth rate (%) | | | (000 MT) | | growth rate (%) | | |
| | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 |
| Africa | 8,572 | 9,816 | 2.8 | 2.7 | 2.0 | 21149 | 23920 | 2.2 | 2.2 | 1.8 |
| Algeria | 427 | 498 | 5.0 | 8.7 | 2.2 | 977 | 950 | 4.9 | 1.8 | -0.4 |
| Angola | 94 | 102 | 2.4 | 1.5 | 1.2 | 150 | 175 | 1.5 | -0.3 | 2.2 |
| Benin | 58 | 68 | 4.1 | 3.6 | 2.3 | 22 | 27 | 4.4 | 2.3 | 3.1 |
| Botswana | 59 | 62 | -1.0 | 4.4 | 0.6 | 115 | 101 | 3.2 | 2.1 | -1.9 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 98 | 123 | -1.0 | 6.5 | 3.2 | 114 | 209 | -0.3 | 2.5 | 9.0 |
| Burundi | 28 | 27 | 3.5 | 2.4 | -0.5 | 42 | 41 | 0.4 | -1.4 | -0.5 |
| Cameroon | 178 | 190 | 2.8 | 4.3 | 0.9 | 173 | 183 | 6.1 | 4.3 | 0.8 |
| Cape Verde | 5 | 7 | 3.3 | 11.4 | 4.5 | 6 | 11 | 1.9 | 8.3 | 8.5 |
| Central African Republic | 64 | 81 | 2.6 | 5.5 | 3.6 | 47 | 60 | 13.1 | 7.0 | 3.7 |
| Chad | 63 | 74 | 1.4 | 1.0 | 2.2 | 157 | 175 | 0.1 | 0.0 | 1.6 |
| Comoros | 2 | 2 | 0.2 | -1.0 | 1.4 | 4 | 4 | 2.4 | 2.1 | 1.4 |
| Congo | 21 | 24 | 3.5 | 2.1 | 1.6 | 1 | 1 | 4.8 | 2.3 | 1.7 |
| Côte d'Ivoire | 125 | 143 | 3.5 | 0.4 | 2.0 | 18 | 23 | 4.8 | 4.2 | 3.9 |
| Democratic Republic of the Congo (1) | 225 | 237 | 0.1 | 2.7 | 0.8 | 8 | 7 | 2.4 | 2.3 | -0.7 |
| Djibouti | 7 | 8 | 5.6 | 0.2 | 2.3 | 12 | 12 | 8.3 | 7.7 | 0.2 |
| Egypt | 780 | 1,183 | 1.7 | 6.0 | 6.1 | 2292 | 3320 | 1.9 | 1.8 | 5.4 |
| Equatorial Guinea | 0.43 | 0.46 | 1.7 | 2.2 | 0.9 | - | - | - | - | - |
| Eritrea | 24 a | 26 | - | - | 1.6 a | 44 a | 47 | - | - | 1.1 a |
| Ethiopia | 575 a | 587 | - | - | 0.5 a | 958 a | 962 | - | - | 0.1 a |
| Ethiopia PDR (2) | 601 | - | -0.2 | 1.3 | - | 971 | - | 1.4 | 1.5 | - |
| Gabon | 27 | 28 | 0.7 | 1.0 | 0.8 | 1 | 1 | 8.5 | 19.0 | 5.5 |
| Gambia | 6 | 8 | 0.7 | 0.5 | 2.6 | 6 | 7 | 1.7 | 1.5 | 2.1 |
| Ghana | 140 | 144 | 3.5 | 2.3 | 0.4 | 22 | 24 | -1.2 | 3.6 | 0.8 |
| Guinea | 19 | 28 | 1.8 | -1.4 | 5.4 | 47 | 61 | 2.9 | 0.4 | 3.8 |
| Guinea-Bissau | 14 | 16 | 3.8 | 2.2 | 1.8 | 16 | 17 | 3.0 | 3.2 | 1.0 |
| Kenya | 389 | 415 | 3.9 | 3.1 | 0.9 | 2473 | 2445 | 1.5 | 9.1 | -0.2 |
| Lesotho | 28 | 30 | 2.4 | 1.6 | 1.3 | 24 | 26 | 4.2 | 1.9 | 1.5 |
| Liberia | 17 | 18 | 2.2 | 1.6 | 0.7 | 1 | 1 | 3.4 | -0.3 | -0.5 |
| Libyan Arab Jamahiriya | 128 | 127 | 11.6 | -1.2 | -0.1 | 150 | 135 | 7.9 | 3.0 | -1.5 |
| Madagascar | 241 | 264 | 1.9 | 1.4 | 1.3 | 477 | 485 | 2.2 | 0.8 | 0.2 |
| Malawi | 41 | 43 | 3.5 | 2.8 | 0.4 | 37 | 33 | 7.8 | 0.8 | -1.5 |
| Mali | 164 | 199 | 0.8 | 3.0 | 2.8 | 369 | 430 | 1.0 | -0.9 | -2.2 |
| Mauritania | 63 | 58 | 2.6 | 2.1 | -1.1 | 267 | 303 | -0.6 | 1.6 | 1.8 |
| Mauritius | 14 | 25 | 5.6 | 8.0 | 8.2 | 25 | 25 | 1.6 | 0.0 | 0.0 |
| Morocco | 447 | 513 | 1.7 | 6.5 | 2.0 | 962 | 1015 | 4.6 | 2.1 | 0.8 |
| Mozambique | 83 | 83 | 1.5 | 2.2 | 0.0 | 73 | 69 | 0.3 | 0.2 | -0.8 |
| Namibia | 63 | 67 | 3.8 | -1.6 | 0.8 | 74 | 73 | 0.1 | 0.8 | -0.2 |
| Niger | 99 | 116 | 2.7 | 0.1 | 2.4 | 243 | 290 | 0.3 | 0.0 | 2.5 |
| Nigeria | 771 | 1,092 | 5.7 | 0.8 | 5.1 | 351 | 380 | 3.1 | 1.9 | 1.1 |
| Réunion | 23 | 33 | 4.1 | 6.6 | 5.7 | 8 | 14 | 2.6 | 4.1 | 8.6 |
| Rwanda | 31 | 25 | 5.8 | 1.6 | -2.7 | 97 | 95 | 8.3 | 2.1 | -0.3 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | 0.40 | 1 | -1.7 | 3.6 | 7.4 | 0.12 | 0.13 | -0.9 | 2.4 | 1.4 |
| Senegal | 111 | 161 | 0.1 | 5.7 | 5.5 | 127 | 134 | -0.6 | 2.0 | 0.8 |
| Seychelles | 2 | 2 | 12.0 | 3.6 | 3.6 | 0.45 | 0.32 | 4.5 | -1.1 | -4.8 |
| Sierra Leone | 19 | 21 | 3.4 | 2.1 | 1.0 | 17 | 17 | 1.6 | -0.6 | 0.0 |
| Somalia | 164 | 154 | 2.1 | 2.9 | -0.9 | 2205 | 2220 | 2.7 | 0.2 | 0.1 |
| South Africa | 1,344 | 1,212 | 3.5 | 2.2 | -1.5 | 2475 | 2720 | -1.2 | -0.4 | 1.4 |
| Sudan | 411 | 501 | 4.0 | -0.9 | 2.9 | 3268 | 4071 | 7.0 | 3.3 | 3.2 |
| Swaziland | 16 | 19 | 3.1 | -2.6 | 2.7 | 42 | 37 | 3.5 | 1.4 | -1.8 |
| Togo | 34 | 39 | -0.3 | 8.3 | 2.2 | 7 | 8 | 1.3 | 1.0 | 1.4 |
| Tunisia | 133 | 175 | 5.8 | 3.2 | 4.0 | 426 | 640 | 3.2 | 6.0 | 6.0 |
| Uganda | 193 | 219 | 2.6 | 2.8 | 1.9 | 430 | 469 | 3.1 | 2.6 | 1.2 |
| United Republic of Tanzania | 273 | 305 | 1.6 | 4.3 | 1.6 | 597 | 693 | 0.6 | 3.6 | 2.2 |
| Zambia | 95 | 105 | 3.7 | 1.4 | 1.4 | 78 | 70 | 3.0 | 2.8 | -1.4 |
| Zimbabwe | 135 | 129 | 0.4 | 2.0 | -0.6 | 640 | 600 | 4.7 | 3.4 | -0.9 |

- : Data are not available or equivalent of 0.

a : Data cover 1993. For average annual growth rate, it refers to the period 1993-1997

(1) : Former Zaire

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 4. Agricultural and Food Production Indices (1989-1991=100)

| Countries | Element | Food Production Index | | | | | | | Agricultural Production Index | | | | | | |
|--------------------------------------|----------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|
| | | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 |
| Africa | Total Pr | 64.6 | 75.3 | 98.3 | 110.5 | 121.6 | 117.2 | 120.2 | 66.2 | 76 | 98.3 | 109.7 | 120.9 | 117.1 | 119.7 |
| | Per capita Pr | 111.7 | 99.7 | 98.3 | 96.7 | 103.7 | 97.3 | 97.2 | 114.5 | 100.6 | 98.4 | 96 | 103.1 | 97.2 | 96.8 |
| Algeria | Total Pr | 68.2 | 71.4 | 93.7 | 118.2 | 137.9 | 113.8 | 120.3 | 65.6 | 69.6 | 94 | 117.3 | 135.8 | 113.4 | 119.4 |
| | Per capita Pr | 123.9 | 95.2 | 93.8 | 105 | 119.6 | 96.4 | 99.5 | 119.1 | 92.8 | 94.1 | 104.2 | 117.8 | 96.1 | 98.8 |
| Angola | Total Pr | 100.3 | 93 | 98.1 | 119 | 124.6 | 122.3 | 138.8 | 140.9 | 98.3 | 97.9 | 117.8 | 123.3 | 121.3 | 137.1 |
| | Per capita Pr | 165.8 | 122.4 | 98.1 | 101.6 | 102.8 | 97.6 | 107.1 | 232.7 | 129.3 | 97.9 | 100.5 | 101.8 | 96.8 | 105.8 |
| Benin | Total Pr | 50.3 | 62.4 | 98.8 | 130.4 | 130.4 | 147.6 | 147.4 | 46.9 | 55.5 | 99 | 147.1 | 150.8 | 167.7 | 167.5 |
| | Per capita Pr | 87.2 | 84.6 | 98.8 | 112.9 | 109.9 | 120.9 | 117.4 | 81.3 | 75.2 | 99.1 | 127.5 | 127.1 | 137.5 | 133.6 |
| Botswana | Total Pr | 84.1 | 73.1 | 99.8 | 106.2 | 100.6 | 89.3 | 86.9 | 83.8 | 73.3 | 99.8 | 106.1 | 100.6 | 89.3 | 86.8 |
| | Per capita Pr | 168 | 102.7 | 99.8 | 93.2 | 86.3 | 74.9 | 71.3 | 167.4 | 103 | 99.8 | 93.1 | 86.3 | 74.9 | 71.2 |
| British Indian Ocean Terri. | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | Total Pr | 58.2 | 58.9 | 92.3 | 120.1 | 128.3 | 119.6 | 119.8 | 52.8 | 56 | 94.6 | 116.8 | 127.9 | 129.9 | 130.1 |
| | Per capita Pr | 97.5 | 77.5 | 92.4 | 104.2 | 108.2 | 98.1 | 95.5 | 88.4 | 73.7 | 94.6 | 101.3 | 107.9 | 106.5 | 103.7 |
| Burundi | Total Pr | 74.9 | 79.1 | 102.5 | 97.1 | 97.3 | 89.6 | 99.1 | 73.7 | 77.8 | 102.2 | 95.9 | 95.6 | 87.7 | 97.4 |
| | Per capita Pr | 116.9 | 105 | 102.5 | 87.8 | 85.8 | 76.8 | 82.5 | 115 | 103.2 | 102.2 | 86.7 | 84.3 | 75.1 | 81 |
| Cameroon | Total Pr | 69.2 | 83 | 99.9 | 115.1 | 122.2 | 115.3 | 116.8 | 69.8 | 83.4 | 99.3 | 111.3 | 119.2 | 115.8 | 117.2 |
| | Per capita Pr | 120.2 | 110.1 | 99.9 | 100.3 | 103.5 | 95 | 93.7 | 121.3 | 110.7 | 99.3 | 96.9 | 100.9 | 95.5 | 94 |
| Cape Verde | Total Pr | 42.4 | 55.1 | 102.6 | 119.1 | 116.9 | 125.9 | 96.1 | 42.9 | 55.2 | 102.6 | 118.7 | 116.6 | 125.6 | 95.8 |
| | Per capita Pr | 54.1 | 64.8 | 102.5 | 104.9 | 100.4 | 105.6 | 78.4 | 54.7 | 64.9 | 102.5 | 104.6 | 100.1 | 105.2 | 78.2 |
| Central African Republic | Total Pr | 57.1 | 80.1 | 99.6 | 113.9 | 130 | 125.6 | 122.2 | 62.5 | 80.9 | 99.8 | 111.3 | 130 | 126.7 | 123 |
| | Per capita Pr | 90.4 | 101.3 | 99.6 | 101.9 | 113.8 | 107.7 | 102.5 | 98.9 | 102.3 | 99.8 | 99.5 | 113.8 | 108.5 | 103.2 |
| Chad | Total Pr | 85.9 | 93.6 | 91.2 | 119.2 | 114.6 | 119.3 | 119.4 | 81.8 | 87.6 | 92 | 116.3 | 117.9 | 121.8 | 121.9 |
| | Per capita Pr | 130.8 | 116.3 | 91.3 | 104.6 | 97.8 | 99 | 96.3 | 124.6 | 108.8 | 92.2 | 102.1 | 100.6 | 101.1 | 98.3 |
| Comoros | Total Pr | 70.8 | 85.6 | 98.8 | 113.7 | 111.5 | 117.6 | 117.6 | 73 | 84.8 | 99.3 | 112.5 | 109.9 | 115.7 | 115.7 |
| | Per capita Pr | 134.8 | 116.9 | 98.8 | 97.1 | 92.3 | 94.4 | 91.5 | 138.9 | 115.8 | 99.3 | 96 | 90.9 | 92.9 | 90 |
| Congo | Total Pr | 70.3 | 80 | 101.3 | 114.1 | 115.9 | 115.1 | 116.6 | 70.7 | 81.4 | 101.1 | 113.8 | 115.6 | 114.7 | 116.2 |
| | Per capita Pr | 124.2 | 107 | 101.2 | 98.2 | 96.9 | 93.6 | 92.2 | 124.9 | 108.8 | 101.1 | 98 | 96.6 | 93.2 | 91.8 |
| Côte d'Ivoire | Total Pr | 41.1 | 70.2 | 100.9 | 116.7 | 129.2 | 124.8 | 126.2 | 46.5 | 71.5 | 102.2 | 110.2 | 119.6 | 124.3 | 122.4 |
| | Per capita Pr | 87.1 | 100.1 | 100.9 | 99.6 | 107.8 | 102 | 101.3 | 98.5 | 102 | 102.2 | 94 | 99.7 | 101.6 | 98.1 |
| Democratic Republic of the Congo (1) | Total Pr | 59.4 | 72.6 | 100.8 | 108.3 | 100.4 | 98.1 | 95.9 | 61.7 | 74 | 100.8 | 107.5 | 99.2 | 96.5 | 94.6 |
| | Per capita Pr | 109.8 | 100.7 | 100.9 | 89.2 | 80.3 | 76.5 | 73 | 114 | 102.6 | 101 | 85.6 | 79.3 | 75.3 | 72 |
| Djibouti | Total Pr | 22.7 | 53.8 | 107.7 | 82.3 | 82.5 | 82.5 | 82.5 | 22.7 | 53.8 | 107.7 | 82.3 | 82.5 | 82.5 | 82.5 |
| | Per capita Pr | 78.7 | 98.2 | 106.8 | 70.3 | 68.6 | 66.8 | 64.9 | 78.7 | 98.2 | 106.8 | 70.3 | 68.6 | 66.8 | 64.5 |
| Egypt | Total Pr | 56 | 68.2 | 101.6 | 125.1 | 136.1 | 140.4 | 143.6 | 62.1 | 74.1 | 101.5 | 122.7 | 134.8 | 138.9 | 141.9 |
| | Per capita Pr | 89.4 | 87.8 | 101.6 | 113.4 | 121.1 | 122.7 | 123.2 | 99.1 | 95.4 | 101.6 | 111.3 | 120 | 121.3 | 121.7 |
| Equatorial Guinea | Total Pr | 214.2 | 87.7 | 100.9 | 87.2 | 97.5 | 91.8 | 89.7 | 178.9 | 87.2 | 100.6 | 91.3 | 98.3 | 92.2 | 89.9 |
| | Per capita Pr | 258.9 | 142.2 | 101 | 76.9 | 83.8 | 77 | 73.5 | 216.2 | 141.3 | 100.7 | 80.4 | 84.5 | 77.3 | 73.6 |
| Eritrea (2) | Total Pr | - | - | - | 100.7 | 99.9 | 100.8 | 101.9 | - | - | - | 100.6 | 99.9 | 100.8 | 101.9 |
| | Per capita Pr | - | - | - | 91.4 | 87.7 | 85.1 | 82.7 | - | - | - | 91.4 | 87.7 | 85.1 | 82.7 |
| Ethiopia (2) | Total Pr | - | - | - | 118.6 | 127.7 | 116.2 | 120.9 | - | - | - | 118 | 126.5 | 115.7 | 119.5 |
| | Per capita Pr | - | - | - | 101.2 | 105.6 | 93 | 93.7 | - | - | - | 100.7 | 104.6 | 92.7 | 92.6 |
| Ethiopia PDR (2) | Total Pr | 81.2 | 89.7 | 101.6 | - | - | - | - | 81.7 | 90.3 | 101.5 | - | - | - | - |
| | Per capita Pr | 135.3 | 118.2 | 101.6 | - | - | - | - | 136.2 | 118.9 | 101.5 | - | - | - | - |
| Gabon | Total Pr | 60.2 | 80.6 | 98.2 | 103.8 | 106.2 | 107.2 | 107.5 | 60 | 79.8 | 97.7 | 104.4 | 106.8 | 107.9 | 108.2 |
| | Per capita Pr | 111.7 | 109 | 98.2 | 90.3 | 89.7 | 88.1 | 85.9 | 111.3 | 108 | 97.7 | 90.8 | 90.3 | 88.7 | 86.5 |
| Gambia | Total Pr | 115.4 | 71.5 | 84.4 | 89 | 71.9 | 92.2 | 92.6 | 113.7 | 71.2 | 84.3 | 90.2 | 74.1 | 91.5 | 92 |
| | Per capita Pr | 228 | 102.2 | 84.1 | 73.4 | 57.8 | 72.2 | 71.1 | 224.6 | 101.8 | 83.9 | 74.4 | 59.5 | 71.7 | 70.6 |
| Ghana | Total Pr | 82.4 | 74.2 | 88 | 145.8 | 152.1 | 154 | 151.9 | 82.5 | 74.3 | 88 | 146.2 | 152.9 | 155.1 | 152.9 |
| | Per capita Pr | 143.6 | 103.1 | 88 | 126.2 | 128 | 126.1 | 120.9 | 143.8 | 103.2 | 88 | 126.6 | 128.7 | 126.9 | 121.7 |
| Guinea | Total Pr | 85.7 | 98.4 | 99.6 | 126.2 | 129 | 132.9 | 134.7 | 82.3 | 94.7 | 99.6 | 125.2 | 126.5 | 129.8 | 132 |
| | Per capita Pr | 127 | 127.5 | 100 | 99.3 | 99.3 | 101 | 101.6 | 122.1 | 122.8 | 100.1 | 98.5 | 97.3 | 98.6 | 99.5 |
| Guinea-Bissau | Total Pr | 56.9 | 67.3 | 103.1 | 113.3 | 109.3 | 113 | 113 | 56.5 | 68 | 103.2 | 113.1 | 109.2 | 112.8 | 112.8 |
| | Per capita Pr | 104.5 | 81.7 | 103.1 | 102.1 | 96.6 | 97.9 | 96 | 103.6 | 82.4 | 103.2 | 102 | 96.5 | 97.8 | 95.9 |
| Kenya | Total Pr | 51.8 | 66.5 | 99.8 | 103.4 | 104.5 | 105.9 | 108.7 | 49 | 65.7 | 100 | 104.9 | 106.5 | 105.7 | 110 |
| | Per capita Pr | 105.8 | 93.8 | 99.8 | 89.4 | 88.2 | 87.4 | 87.9 | 100.1 | 92.7 | 99.9 | 90.6 | 89.9 | 87.3 | 88.9 |
| Lesotho | Total Pr | 78.9 | 88.1 | 111.6 | 92.3 | 118.8 | 120.5 | 106.9 | 86.2 | 88 | 111.5 | 100.3 | 118.2 | 119.8 | 107.4 |
| | Per capita Pr | 131.9 | 114.7 | 111.3 | 81 | 101.7 | 100.6 | 87.1 | 144.2 | 114.6 | 111.3 | 88 | 101.2 | 100.1 | 87.5 |
| Liberia | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Libyan Arab Jamahuria | Total Pr | 37.2 | 85 | 100.2 | 89.5 | 97.9 | 101 | 101 | 38.4 | 86.1 | 100.2 | 89.4 | 97.3 | 100.4 | 100.4 |
| | Per capita Pr | 85.2 | 127.1 | 100.2 | 75.3 | 79.6 | 79.4 | 76.8 | 87.8 | 128.7 | 100.3 | 75.2 | 79.1 | 78.9 | 76.3 |
| Madagascar | Total Pr | 72.5 | 83.6 | 100.1 | 104.1 | 105.7 | 107.7 | 106.6 | 73.2 | 84 | 100.1 | 102.7 | 104.2 | 105.4 | 104.7 |
| | Per capita Pr | 153.5 | 116.5 | 100.1 | 88.4 | 87 | 85.9 | 82.4 | 134.9 | 117.1 | 100.1 | 87.2 | 85.8 | 84.1 | 80.9 |
| Malawi | Total Pr | 62.6 | 89.1 | 97.1 | 105.3 | 110.3 | 98.8 | 110.7 | 54.2 | 81.1 | 97.7 | 109.2 | 116.1 | 110.1 | 119.6 |
| | Per capita Pr | 128.6 | 133.8 | 96.6 | 101.1 | 104 | 91 | 99 | 111.5 | 121.8 | 97.2 | 104.9 | 109.5 | 101.4 | 107 |
| Mali | Total Pr | 66.7 | 76.8 | 97.7 | 115.4 | 115.9 | 116.5 | 116.8 | 60.2 | 73.9 | 97.4 | 117.9 | 121.8 | 124.8 | 127 |
| | Per capita Pr | 112.1 | 103.1 | 97.7 | 98.5 | 95.9 | 93.5 | 91 | 101.1 | 99.3 | 97.4 | 100.7 | 100.8 | 100.2 | 98.9 |
| Mauritania | Total Pr | 81.6 | 86.5 | 100.6 | 99.8 | 106.9 | 103.5 | 100.9 | 81.6 | 86.5 | 100.6 | 99.8 | 106.9 | 103.5 | 100.9 |
| | Per capita Pr | 133.9 | 111.7 | 100.7 | 87.9 | 91.8 | 86.7 | 82.4 | 133.9 | 111.7 | 100.7 | 87.9 | 91.8 | 86.7 | 82.4 |
| Mauritius | Total Pr | 81.1 | 77.6 | 101.4 | 106.3 | 108.7 | 116.7 | 117.3 | 79.8 | 78.1 | 101.2 | 104.1 | 104.8 | 111.5 | 111.9 |
| | Per capita Pr | 103.8 | 84.9 | 101.4 | 100.7 | 101.7 | 108.2 | 107.4 | 102.1 | 85.4 | 101.2 | 98.5 | 98.1 | 103.3 | 102.5 |

- : data not available.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 4. Agricultural and Food Production Indices (1989-1991=100)

| Countries | Element | Food Production Index | | | | | | | Agricultural Production Index | | | | | | |
|-----------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|
| | | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 |
| Morocco | Total Pr | 48.1 | 57.9 | 93.3 | 73.6 | 114.9 | 95 | 103.5 | 48.2 | 57.5 | 93.6 | 74.2 | 114.2 | 95.2 | 103.5 |
| | Per capita Pr | 75.6 | 71.8 | 93.3 | 66.7 | 102.2 | 83 | 88.9 | 75.6 | 71.3 | 93.6 | 67.2 | 101.6 | 83.2 | 88.8 |
| Mozambique | Total Pr | 102.7 | 99.9 | 106 | 108.4 | 121.5 | 128.8 | 138.7 | 111.7 | 104.6 | 105.7 | 108.7 | 121.4 | 129.6 | 139 |
| | Per capita Pr | 155.6 | 117.5 | 106.4 | 89.4 | 97.2 | 100.3 | 105.6 | 169.2 | 123.1 | 106.1 | 89.7 | 97.1 | 101 | 105.8 |
| Namibia | Total Pr | 101.7 | 108.7 | 96.8 | 110.4 | 118.2 | 124.1 | 119.1 | 103.5 | 111.4 | 97 | 110.3 | 117.8 | 123.8 | 118.9 |
| | Per capita Pr | 173.6 | 142.6 | 96.7 | 97.1 | 101.4 | 104 | 97.3 | 176.6 | 146.2 | 96.9 | 97 | 101.1 | 103.7 | 97.1 |
| Niger | Total Pr | 82.8 | 103.7 | 89.3 | 110.4 | 125 | 121.2 | 121.2 | 83.1 | 103.6 | 89.2 | 110.4 | 124.9 | 121.2 | 121.2 |
| | Per capita Pr | 153.9 | 143.8 | 89.4 | 93.5 | 102.3 | 95.9 | 92.8 | 154.6 | 143.6 | 89.4 | 93.4 | 102.2 | 95.9 | 92.7 |
| Nigeria | Total Pr | 66 | 58.7 | 97.6 | 131.7 | 140.4 | 136 | 137.4 | 66.4 | 58.4 | 97.7 | 131.4 | 139.9 | 135.2 | 136.1 |
| | Per capita Pr | 115.4 | 78.5 | 97.7 | 113.5 | 117.6 | 110.7 | 108.7 | 116.1 | 78.1 | 97.9 | 113.3 | 117.1 | 110 | 107.6 |
| Réunion | Total Pr | 57.1 | 71.5 | 99.4 | 111.9 | 111.9 | 113.7 | 112.4 | 58.2 | 72.4 | 99.4 | 111.3 | 111.3 | 113 | 111.8 |
| | Per capita Pr | 74.9 | 85.4 | 99.5 | 103.4 | 101.9 | 102.1 | 99.7 | 76.4 | 86.5 | 99.6 | 102.8 | 101.3 | 101.6 | 99.2 |
| Rwanda | Total Pr | 62.7 | 87.5 | 100.4 | 73 | 75.1 | 79.7 | 80.3 | 60.4 | 85.5 | 100.9 | 72.2 | 73.2 | 78.6 | 79.5 |
| | Per capita Pr | 115.7 | 116.5 | 99.3 | 96.8 | 95.7 | 93.2 | 84.6 | 111.5 | 113.9 | 99.8 | 95.8 | 93.3 | 91.9 | 83.8 |
| Saint Helena | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | Total Pr | 145.6 | 112.2 | 96.5 | 126.2 | 126.1 | 129 | 129 | 146.6 | 112.6 | 96.7 | 126.2 | 126.2 | 129.1 | 129.1 |
| | Per capita Pr | 237.2 | 142 | 96.4 | 112.9 | 110.6 | 111.2 | 108.8 | 238.9 | 142.5 | 96.6 | 112.9 | 110.6 | 111.2 | 108.8 |
| Senegal | Total Pr | 61.8 | 59 | 95.4 | 117.4 | 104.2 | 97.4 | 97.2 | 60.9 | 58.8 | 95.3 | 116.8 | 104.8 | 99.3 | 99.2 |
| | Per capita Pr | 108.8 | 78 | 95.3 | 103.3 | 89.4 | 81.3 | 79.1 | 107.2 | 77.7 | 95.2 | 102.9 | 89.9 | 83 | 80.7 |
| Seychelles | Total Pr | 139.7 | 131.4 | 96.4 | 146.2 | 142 | 141.1 | 143 | 132.3 | 125.1 | 97 | 144.2 | 140.1 | 139.4 | 141.1 |
| | Per capita Pr | 184.3 | 145.9 | 96.3 | 140.1 | 134.7 | 133.4 | 133.3 | 174.6 | 138.8 | 96.9 | 138.1 | 132.9 | 131.7 | 131.6 |
| Sierra Leone | Total Pr | 76.4 | 85 | 99.6 | 90.8 | 96.3 | 100.8 | 98.2 | 71.7 | 80.9 | 99.6 | 91.3 | 96.3 | 102.1 | 98 |
| | Per capita Pr | 114.8 | 104.8 | 99.4 | 86.3 | 89.4 | 90.8 | 85.6 | 107.7 | 99.8 | 99.4 | 86.9 | 89.4 | 92 | 85.4 |
| Somalia | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| South Africa | Total Pr | 64.3 | 90.9 | 98 | 87 | 104 | 101.6 | 105.4 | 68 | 91.9 | 98 | 85.3 | 101.8 | 99.4 | 103 |
| | Per capita Pr | 106.2 | 115.4 | 98 | 77.7 | 90.9 | 86.9 | 88.2 | 112.2 | 116.7 | 98 | 76.2 | 88.9 | 85 | 86.2 |
| Sudan | Total Pr | 70.4 | 103.1 | 93.1 | 130.7 | 146.3 | 148.1 | 149.6 | 76.5 | 102.1 | 94 | 128.9 | 143.3 | 144.5 | 146.1 |
| | Per capita Pr | 122.3 | 132.8 | 93.1 | 117.8 | 129.1 | 127.8 | 126.3 | 132.9 | 131.6 | 94 | 116.2 | 126.4 | 124.7 | 123.3 |
| Swaziland | Total Pr | 57.4 | 81.4 | 96.5 | 89.1 | 97.5 | 97.8 | 98 | 55.5 | 81.7 | 96.2 | 84.6 | 94.5 | 94 | 94.2 |
| | Per capita Pr | 102 | 108.2 | 96.6 | 77.4 | 82.4 | 80.4 | 78.3 | 98.5 | 108.5 | 96.2 | 73.5 | 79.9 | 77.2 | 75.3 |
| Togo | Total Pr | 71.9 | 76.1 | 103.1 | 116.2 | 132.7 | 136.5 | 139.8 | 63.3 | 67.8 | 100.5 | 114 | 132 | 138.2 | 137 |
| | Per capita Pr | 125.3 | 102.5 | 103.1 | 100.2 | 111.3 | 111.4 | 111 | 110.4 | 91.4 | 100.6 | 98.4 | 110.8 | 112.9 | 106.9 |
| Tunisia | Total Pr | 45.5 | 74.3 | 96.6 | 82.2 | 144.8 | 97.2 | 120.4 | 45.4 | 74.2 | 96.8 | 81.9 | 142.6 | 96.4 | 119 |
| | Per capita Pr | 72.6 | 94.3 | 96.9 | 74.8 | 129.4 | 85.3 | 103.8 | 72.5 | 94.2 | 97.1 | 74.6 | 127.5 | 84.6 | 102.5 |
| Uganda | Total Pr | 81 | 66.9 | 101 | 111.4 | 102.5 | 105.9 | 106.3 | 90.1 | 68 | 100 | 112.8 | 109.5 | 110.3 | 105.1 |
| | Per capita Pr | 137.8 | 85 | 101.2 | 94.3 | 84.4 | 84.9 | 83.2 | 153.2 | 86.5 | 100.2 | 95.6 | 90.2 | 88.5 | 85.3 |
| United Republic of Tanzania | Total Pr | 54.5 | 74.2 | 99.6 | 99.7 | 103 | 94.5 | 104 | 58.5 | 75.9 | 99.1 | 99.5 | 104.6 | 96 | 103.6 |
| | Per capita Pr | 101.4 | 101.8 | 99.6 | 84.6 | 85.2 | 76.4 | 82.3 | 108.9 | 104.1 | 99.1 | 84.4 | 86.6 | 77.7 | 82 |
| Zambia | Total Pr | 56.8 | 75.1 | 93.8 | 89.1 | 108.9 | 100.6 | 91.2 | 55.6 | 73.7 | 92.9 | 89.7 | 107.7 | 99.6 | 90.1 |
| | Per capita Pr | 97.9 | 94.4 | 93.7 | 79.5 | 95 | 85.6 | 75.7 | 95.7 | 92.6 | 92.8 | 80.1 | 93.9 | 84.7 | 74.8 |
| Zimbabwe | Total Pr | 61.5 | 76.4 | 103.7 | 73.8 | 105 | 106.3 | 91.4 | 55.1 | 76.7 | 100 | 81.9 | 111.5 | 114.7 | 103 |
| | Per capita Pr | 115.1 | 105.6 | 103.6 | 64.9 | 90.3 | 89.6 | 75.4 | 103.2 | 106 | 99.9 | 72.1 | 95.9 | 96.6 | 85 |

- : data not available.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 4. Agricultural and Food Production Indices, continued (1989-1991=100)

| Countries | Element | Total Cereals Production Index | | | | | | | Crops Production Index | | | | | | |
|--------------------------------------|----------------------|--------------------------------|-------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|-------|
| | | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 |
| Africa | Total Pr | 60.5 | 72.2 | 93.8 | 101.8 | 128.5 | 111.6 | 115.8 | 67.5 | 74.2 | 97.3 | 110.4 | 125.3 | 118.3 | 120.7 |
| | Per capita Pr | 104.6 | 95.6 | 93.8 | 89 | 109.5 | 92.7 | 93.6 | 116.7 | 98.3 | 97.4 | 96.6 | 106.8 | 98.2 | 97.6 |
| Algeria | Total Pr | 36.6 | 100.8 | 60 | 88.8 | 215.2 | 26.3 | 102.5 | 88.7 | 80.6 | 84.4 | 113.8 | 154.4 | 102.6 | 120.6 |
| | Per capita Pr | 158.1 | 135 | 60.3 | 79.2 | 187.6 | 22.4 | 85.2 | 161.1 | 107.4 | 84.5 | 101 | 133.9 | 86.9 | 99.8 |
| Angola | Total Pr | 204.2 | 149.9 | 82.9 | 104.6 | 188 | 159.8 | 219.1 | 193.9 | 106.9 | 96.4 | 132.2 | 137.3 | 129.3 | 158.5 |
| | Per capita Pr | 338.4 | 197.7 | 83.2 | 89.6 | 155.6 | 127.8 | 169.5 | 320.4 | 140.7 | 96.4 | 112.8 | 113.4 | 103.2 | 122.3 |
| Benin | Total Pr | 49.6 | 60.6 | 96.4 | 132.8 | 118.9 | 158.9 | 158.9 | 7 | 52.6 | 98.5 | 154.4 | 157.8 | 177.8 | 177.8 |
| | Per capita Pr | 85.9 | 82 | 96.4 | 115 | 100.1 | 130.1 | 126.5 | 81.6 | 71.4 | 98.7 | 133.9 | 133.1 | 145.8 | 141.8 |
| Botswana | Total Pr | 14.6 | 70.6 | 88.3 | 73.2 | 140.1 | 50.8 | 12.2 | 56.2 | 93.9 | 96.5 | 77.2 | 106.9 | 71.6 | 50.4 |
| | Per capita Pr | 29 | 98.7 | 87.9 | 63.9 | 119.5 | 42.4 | 10 | 111.9 | 131.6 | 96.3 | 67.6 | 91.4 | 59.8 | 41.3 |
| British Indian Ocean Terr. | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | Total Pr | 54.3 | 52.9 | 76 | 117.4 | 126.5 | 102.3 | 102.3 | 47.6 | 54.5 | 91.4 | 115.8 | 128.1 | 125.9 | 125.9 |
| | Per capita Pr | 91.2 | 69.7 | 76.2 | 102 | 106.8 | 84 | 81.7 | 79.8 | 71.6 | 91.5 | 100.5 | 108 | 103.2 | 100.3 |
| Burundi | Total Pr | 53.9 | 69.4 | 99 | 89.3 | 92.8 | 104.3 | 99.1 | 73.8 | 76.5 | 102.2 | 95.6 | 95.4 | 86.4 | 97.1 |
| | Per capita Pr | 84 | 92 | 98.9 | 80.7 | 81.7 | 89.3 | 82.4 | 115.2 | 101.6 | 102.2 | 86.4 | 84.1 | 74.1 | 80.8 |
| Cameroon | Total Pr | 79.6 | 98.9 | 90.5 | 137.1 | 144.7 | 129.7 | 129.7 | 79.8 | 91.1 | 98.8 | 112.3 | 123.5 | 118.8 | 120.6 |
| | Per capita Pr | 138.4 | 131.4 | 90.7 | 119.5 | 122.7 | 107 | 104.2 | 138.7 | 121 | 98.8 | 97.8 | 104.6 | 97.9 | 96.7 |
| Cape Verde | Total Pr | 9.4 | 86.8 | 116.6 | 83.3 | 104 | 102.1 | 102.1 | 43.1 | 78.7 | 104 | 69.9 | 97.8 | 111.4 | 63.6 |
| | Per capita Pr | 12 | 102.1 | 116.5 | 73.4 | 89.3 | 85.6 | 83.3 | 54.8 | 92.4 | 103.7 | 61.5 | 83.8 | 93.2 | 51.8 |
| Central African Republic | Total Pr | 86.3 | 94.4 | 91.4 | 106.2 | 124.6 | 134.5 | 130.4 | 85.8 | 102.5 | 100.3 | 111.4 | 124.4 | 129.9 | 128.8 |
| | Per capita Pr | 136.2 | 119.1 | 91.1 | 94.7 | 108.8 | 115 | 109.2 | 135.8 | 129.6 | 100.3 | 99.6 | 108.8 | 111.2 | 108 |
| Chad | Total Pr | 90.1 | 81.3 | 84.3 | 128.2 | 133.8 | 128.2 | 128.2 | 69.5 | 70.1 | 89.1 | 122.5 | 121.7 | 126.7 | 126.7 |
| | Per capita Pr | 137.4 | 101.1 | 84.6 | 112.7 | 114.4 | 106.5 | 103.6 | 105.9 | 87.1 | 89.3 | 107.6 | 103.9 | 105.1 | 102.2 |
| Comoros | Total Pr | 69.7 | 92.9 | 97.9 | 110.7 | 110.6 | 111.8 | 111.8 | 71.2 | 81.6 | 99.8 | 113.7 | 110.4 | 117.2 | 117.2 |
| | Per capita Pr | 132.6 | 126.9 | 98 | 94.5 | 91.6 | 89.8 | 87 | 135.4 | 111.4 | 99.8 | 97.1 | 91.4 | 94.1 | 91.2 |
| Congo | Total Pr | 43.8 | 57.2 | 101.2 | 98.4 | 91 | 89.6 | 89.6 | 73.8 | 81.9 | 101.2 | 113.9 | 115.7 | 113.1 | 112.9 |
| | Per capita Pr | 77.5 | 76.5 | 101.2 | 84.8 | 76.1 | 72.9 | 70.9 | 130.4 | 109.5 | 101.1 | 98.1 | 96.8 | 91.9 | 89.3 |
| Côte d'Ivoire | Total Pr | 48.1 | 69 | 99.8 | 144.1 | 123.1 | 132.7 | 132.7 | 46.9 | 71.3 | 102.2 | 109.4 | 119.7 | 124.5 | 122 |
| | Per capita Pr | 102 | 98.5 | 99.8 | 123.1 | 102.7 | 108.5 | 106.5 | 99.3 | 101.6 | 102.2 | 93.3 | 99.8 | 101.7 | 97.8 |
| Democratic Republic of the Congo (1) | Total Pr | 45.3 | 60.6 | 101.6 | 119.9 | 111.4 | 97.3 | 90.1 | 60.2 | 73.6 | 100.8 | 107.7 | 98.3 | 95.5 | 93.3 |
| | Per capita Pr | 83.8 | 84 | 101.7 | 98.8 | 89.1 | 75.8 | 68.6 | 111.2 | 102 | 101 | 88.7 | 78.7 | 74.5 | 71 |
| Djibouti | Total Pr | - | - | 120.7 | 157.4 | 157.4 | 157.4 | 157.4 | 8.1 | 70.9 | 97.3 | 99.9 | 102 | 102 | 102 |
| | Per capita Pr | - | - | 121.8 | 136.8 | 133.1 | 129.6 | 126 | 28.1 | 129.8 | 96.9 | 85.7 | 85.1 | 82.8 | 80.5 |
| Egypt | Total Pr | 61 | 63.9 | 102.8 | 129.9 | 133.6 | 142.6 | 145.9 | 62.3 | 76.7 | 102.3 | 121.2 | 133.2 | 133.9 | 137.2 |
| | Per capita Pr | 97.5 | 82.3 | 102.9 | 117.9 | 119.1 | 124.7 | 125.2 | 99.5 | 98.8 | 102.3 | 109.9 | 118.6 | 117 | 117.7 |
| Equatorial Guinea | Total Pr | - | - | - | - | - | - | - | 184.2 | 87.5 | 100.6 | 90.6 | 97.9 | 91.6 | 89.2 |
| | Per capita Pr | - | - | - | - | - | - | - | 222.6 | 141.9 | 100.7 | 79.8 | 84.2 | 76.8 | 73 |
| Eritrea (2) | Total Pr | - | - | - | 158.8 | 125.3 | 134.2 | 145.6 | - | - | - | 115 | 113.1 | 115.4 | 118.2 |
| | Per capita Pr | - | - | - | 143.9 | 109.7 | 113.1 | 117.9 | - | - | - | 104.4 | 99.3 | 97.4 | 95.9 |
| Ethiopia (2) | Total Pr | - | - | - | 137.4 | 165.8 | 125.7 | 139.8 | - | - | - | 127.6 | 141.4 | 123.5 | 129.9 |
| | Per capita Pr | - | - | - | 117.3 | 137.1 | 100.6 | 108.4 | - | - | - | 109 | 116.9 | 98.9 | 100.8 |
| Ethiopia PDR (2) | Total Pr | 68.4 | 85.9 | 105.1 | - | - | - | - | 75.1 | 90.9 | 102.2 | - | - | - | - |
| | Per capita Pr | 114 | 113.1 | 105.2 | - | - | - | - | 125.2 | 119.7 | 102.2 | - | - | - | - |
| Gabon | Total Pr | 37.8 | 48 | 102.7 | 129 | 133.2 | 137.6 | 137.6 | 48.8 | 78.7 | 96.4 | 105.1 | 108.2 | 109.8 | 110.2 |
| | Per capita Pr | 70.2 | 65 | 102.8 | 112.3 | 112.8 | 113.2 | 110.1 | 90.6 | 106.5 | 96.4 | 91.4 | 91.5 | 90.3 | 88.1 |
| Gambia | Total Pr | 101.6 | 76.7 | 91 | 98.4 | 105.3 | 104.5 | 104.5 | 117.8 | 65.8 | 81 | 86 | 66.4 | 86.7 | 86.7 |
| | Per capita Pr | 201.7 | 110.3 | 91.1 | 81.7 | 85.1 | 82.4 | 80.7 | 232.4 | 94 | 80.6 | 70.9 | 53.3 | 67.9 | 66.4 |
| Ghana | Total Pr | 74 | 58.7 | 72.1 | 158.5 | 156.7 | 158 | 152.1 | 86.2 | 73.2 | 86.2 | 153.3 | 161.1 | 163.5 | 161.1 |
| | Per capita Pr | 129.2 | 81.7 | 72.2 | 137.5 | 132.2 | 129.6 | 121.3 | 150.2 | 101.6 | 86.1 | 132.8 | 135.6 | 133.8 | 128.2 |
| Guinea | Total Pr | 88.1 | 114.3 | 99.3 | 135.4 | 142.1 | 149.2 | 150 | 80.7 | 91.8 | 99.6 | 125 | 126.3 | 129.4 | 131.2 |
| | Per capita Pr | 130.8 | 148.3 | 99.9 | 106.7 | 109.4 | 113.5 | 113.2 | 119.7 | 119.1 | 100.1 | 98.4 | 97.2 | 98.3 | 98.9 |
| Guinea-Bissau | Total Pr | 31.2 | 47.3 | 101.8 | 120.8 | 103.9 | 116.9 | 116.9 | 56.1 | 63.8 | 104 | 114.3 | 107.5 | 112.4 | 112.4 |
| | Per capita Pr | 57.4 | 57.4 | 101.9 | 109.1 | 92 | 101.5 | 99.5 | 103 | 77.4 | 104 | 103.1 | 95 | 97.4 | 95.5 |
| Kenya | Total Pr | 73 | 77.7 | 94 | 113.6 | 96.2 | 95.7 | 109.2 | 55.4 | 72.4 | 98 | 110.8 | 109.8 | 105.9 | 115.2 |
| | Per capita Pr | 148.7 | 109.4 | 93.8 | 98 | 81.1 | 78.9 | 88.1 | 113 | 102.1 | 97.9 | 95.7 | 92.6 | 87.4 | 93.1 |
| Lesotho | Total Pr | 107.3 | 116.5 | 145.1 | 46.1 | 153.1 | 124.4 | 76.1 | 78.8 | 91.6 | 126.8 | 77.6 | 140.2 | 138.9 | 105.4 |
| | Per capita Pr | 178.5 | 150.9 | 144.1 | 40.3 | 130.4 | 103.4 | 61.7 | 131.4 | 118.9 | 126.2 | 67.9 | 119.7 | 115.6 | 85.6 |
| Liberia | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Libyan Arab Jamahiriya | Total Pr | 27.7 | 70.5 | 89.1 | 105.8 | 106.6 | 107 | 107 | 34.6 | 80.3 | 98.9 | 88.5 | 88 | 89.7 | 89.7 |
| | Per capita Pr | 63.4 | 105.1 | 88.9 | 88.8 | 86.4 | 83.9 | 81.2 | 79.2 | 119.9 | 98.9 | 74.4 | 71.5 | 70.5 | 68.2 |
| Madagascar | Total Pr | 81 | 87.7 | 101.7 | 103.8 | 105.6 | 108 | 102.8 | 74.9 | 84.9 | 100 | 101.7 | 103.6 | 105.1 | 103.8 |
| | Per capita Pr | 149.2 | 122.1 | 101.7 | 88.2 | 86.9 | 86.1 | 79.4 | 138.1 | 118.3 | 100 | 86.4 | 85.3 | 83.8 | 80.3 |
| Malawi | Total Pr | 62.8 | 80.1 | 90.1 | 114.4 | 125.9 | 87.1 | 122.4 | 55.3 | 82.4 | 97.4 | 110.9 | 118.2 | 111.4 | 121.9 |
| | Per capita Pr | 129 | 120.2 | 89.7 | 109.8 | 118.7 | 80.1 | 109.5 | 113.8 | 123.8 | 97 | 106.5 | 111.6 | 102.6 | 109.2 |
| Mali | Total Pr | 51.2 | 49.2 | 94.5 | 121.6 | 115.5 | 118.7 | 118.7 | 47.1 | 58 | 96.1 | 120.3 | 125.5 | 129.1 | 133.1 |
| | Per capita Pr | 85.9 | 65.9 | 94.4 | 103.6 | 95.5 | 95.2 | 92.4 | 79.1 | 77.9 | 96.1 | 102.7 | 103.9 | 103.6 | 103.7 |
| Mauritania | Total Pr | 55.1 | 32.6 | 82.2 | 157.4 | 168.9 | 98.2 | 122 | 68.2 | 58.7 | 85.8 | 143.2 | 144.8 | 121.9 | 112.1 |
| | Per capita Pr | 90 | 41.9 | 81.8 | 137.9 | 144.3 | 81.8 | 99.1 | 111.5 | 75.6 | 85.6 | 125.7 | 123.9 | 101.8 | 91.2 |
| Mauritius | Total Pr | 82.4 | 42.2 | 100.4 | 12.6 | 19.2 | 10.2 | 13.1 | 86.2 | 79.8 | 100.5 | 98.3 | 97.1 | 103.9 | 104.5 |
| | Per capita Pr | 105.4 | 46.2 | 100.4 | 11.9 | 18 | 9.4 | 12 | 110.3 | 87.3 | 100.6 | 93.1 | 90.9 | 96.3 | 95.7 |

- : data not available.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 4. Agricultural and Food Production Indices, continued (1989-1991=100)

| Countries | Element | Total Cereals Production | | | | | | | Crops Production | | | | | | |
|-----------------------------|---------------|--------------------------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|
| | | Index | | | | | | | Index | | | | | | |
| | | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 |
| Morocco | Total Pr | 54.7 | 58.3 | 83.4 | 18.3 | 139 | 51.8 | 88.5 | 49.8 | 58.8 | 90.8 | 62.2 | 122.8 | 91.3 | 102.3 |
| | Per capita Pr | 86 | 72.3 | 83.5 | 16.6 | 123.8 | 45.3 | 76.1 | 78.2 | 72.9 | 90.8 | 56.4 | 109.3 | 79.8 | 87.8 |
| Mozambique | Total Pr | 113.4 | 106 | 117.5 | 180.9 | 222.2 | 249.1 | 275.2 | 121.9 | 110.5 | 108.1 | 112.9 | 129.6 | 140.7 | 152.6 |
| | Per capita Pr | 171.6 | 124.5 | 117.8 | 149 | 177.4 | 193.9 | 209.3 | 184.7 | 129.9 | 108.4 | 93.1 | 103.6 | 109.6 | 116.2 |
| Namibia | Total Pr | 49 | 68.8 | 96.6 | 52 | 82.4 | 171.2 | 52.4 | 68.7 | 80.2 | 99.1 | 88.4 | 100.6 | 127.4 | 96.9 |
| | Per capita Pr | 83.7 | 90.3 | 96.7 | 45.8 | 70.8 | 143.6 | 42.9 | 117.2 | 105.3 | 99.1 | 77.8 | 86.3 | 106.8 | 79.2 |
| Niger | Total Pr | 61 | 94.9 | 77.2 | 113.4 | 124.8 | 117.8 | 117.8 | 72.2 | 98.3 | 83.3 | 108.1 | 130.3 | 124 | 124 |
| | Per capita Pr | 113.7 | 131.8 | 77.4 | 96.1 | 102.3 | 93.4 | 90.3 | 134.3 | 136.4 | 83.5 | 91.6 | 106.7 | 98.2 | 95 |
| Nigeria | Total Pr | 47.5 | 43.8 | 97.1 | 115.1 | 118.5 | 120.6 | 124.5 | 68.8 | 52 | 97.1 | 133.4 | 142 | 135.6 | 135.9 |
| | Per capita Pr | 83 | 58.5 | 97.1 | 99 | 99.1 | 98 | 98.3 | 120.4 | 69.5 | 97.3 | 115 | 118.9 | 110.3 | 107.5 |
| Réunion | Total Pr | 64.4 | 83 | 85.4 | 136.6 | 132.8 | 138.9 | 138.9 | 74 | 87.8 | 99.8 | 100.6 | 99.8 | 100.4 | 98.6 |
| | Per capita Pr | 84.4 | 99 | 85.4 | 126 | 120.8 | 124.7 | 123 | 97.1 | 104.8 | 99.9 | 92.9 | 90.9 | 90.2 | 87.4 |
| Rwanda | Total Pr | 74.2 | 90.2 | 102.4 | 50.3 | 60.9 | 73.2 | 75.9 | 62.5 | 85.9 | 101.1 | 70.4 | 71.6 | 77.7 | 78.7 |
| | Per capita Pr | 136.6 | 119.9 | 101.1 | 66.5 | 77.5 | 85.4 | 79.8 | 115.2 | 114.4 | 100 | 93.4 | 91.2 | 90.8 | 82.9 |
| Saint Helena | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | Total Pr | 17 | 16.2 | 97.5 | 108.5 | 126.9 | 134.3 | 134.3 | 155.2 | 117.2 | 96.9 | 125.3 | 124.7 | 127.5 | 127.5 |
| | Per capita Pr | 27.8 | 20.6 | 97.9 | 97.5 | 111.8 | 116.3 | 113.8 | 252.8 | 148.3 | 96.8 | 112.1 | 109.3 | 109.9 | 107.6 |
| Senegal | Total Pr | 52.2 | 65 | 97 | 106.2 | 98 | 79.1 | 79.1 | 62.3 | 57.5 | 93.9 | 110.8 | 92.8 | 84.1 | 84.1 |
| | Per capita Pr | 91.8 | 85.8 | 96.8 | 93.4 | 84.1 | 66 | 64.3 | 109.6 | 75.9 | 93.7 | 97.5 | 79.6 | 70.2 | 68.4 |
| Seychelles | Total Pr | - | - | - | - | - | - | - | 274.7 | 189.4 | 93.8 | 117.8 | 123.6 | 113.9 | 118 |
| | Per capita Pr | - | - | - | - | - | - | - | 362.6 | 210.3 | 93.8 | 112.9 | 117.3 | 107.7 | 110.1 |
| Sierra Leone | Total Pr | 84.3 | 97.8 | 99.3 | 71.7 | 78 | 82.5 | 79.9 | 73 | 80.5 | 99.4 | 89.1 | 94.7 | 101.2 | 96.4 |
| | Per capita Pr | 126.7 | 120.6 | 99.1 | 68.2 | 72.4 | 74.3 | 69.7 | 109.7 | 99.2 | 99.2 | 84.7 | 87.9 | 91.2 | 84 |
| Somalia | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| South Africa | Total Pr | 64.9 | 105.8 | 88.8 | 60.5 | 110.8 | 105.8 | 76.9 | 60.9 | 93.4 | 95.3 | 82.7 | 111.1 | 106.6 | 99 |
| | Per capita Pr | 106.9 | 134.2 | 88.6 | 54 | 96.7 | 90.3 | 64.2 | 100.5 | 118.6 | 95.3 | 73.8 | 97.1 | 91.1 | 82.8 |
| Sudan | Total Pr | 80.4 | 106.3 | 61.6 | 121.5 | 190.3 | 174.8 | 177.7 | 108 | 118.1 | 84.8 | 143.7 | 172.5 | 172 | 174.1 |
| | Per capita Pr | 140.4 | 137.8 | 62 | 110.2 | 168.9 | 151.8 | 150.9 | 187.7 | 152.2 | 84.8 | 129.6 | 152.3 | 148.5 | 147 |
| Swaziland | Total Pr | 58.7 | 83.9 | 78.3 | 61.5 | 120.2 | 85.9 | 85.2 | 50.1 | 76.4 | 96.9 | 72.9 | 89.3 | 84.3 | 84.3 |
| | Per capita Pr | 104.3 | 111.4 | 78.3 | 53.5 | 101.5 | 70.6 | 68.2 | 88.9 | 101.5 | 96.9 | 63.4 | 75.4 | 69.2 | 67.4 |
| Togo | Total Pr | 67.6 | 59 | 94.8 | 106.4 | 131.2 | 138.5 | 141 | 66.3 | 70.8 | 100.1 | 112.5 | 133.6 | 140.4 | 138.2 |
| | Per capita Pr | 117.7 | 79.2 | 94.5 | 91.6 | 109.8 | 112.8 | 111.8 | 115.6 | 95.4 | 100.1 | 97 | 112.1 | 114.6 | 109.8 |
| Tunisia | Total Pr | 41.5 | 73.1 | 101.4 | 33 | 182.4 | 65.6 | 93.7 | 44.7 | 75.9 | 97.5 | 69.3 | 146.1 | 86.3 | 114.2 |
| | Per capita Pr | 66.7 | 93.3 | 102.2 | 30.2 | 164 | 57.9 | 81.2 | 71.4 | 96.4 | 97.9 | 63.1 | 130.7 | 75.8 | 98.5 |
| Uganda | Total Pr | 104.7 | 68.1 | 98.7 | 125.8 | 97.7 | 100.7 | 109.9 | 97.7 | 65.1 | 99.7 | 112.1 | 108.2 | 108.8 | 107.5 |
| | Per capita Pr | 177.8 | 86.5 | 98.7 | 106.5 | 80.3 | 80.7 | 85.9 | 166 | 82.7 | 99.8 | 94.9 | 89.1 | 87.3 | 84.1 |
| United Republic of Tanzania | Total Pr | 23.8 | 69.8 | 93.6 | 111 | 107.5 | 84.5 | 110.9 | 58.5 | 79.2 | 98.8 | 94.9 | 101.9 | 89.6 | 98.9 |
| | Per capita Pr | 44.1 | 95.5 | 93.3 | 93.9 | 88.7 | 68.2 | 87.6 | 108.8 | 108.6 | 98.8 | 80.6 | 84.3 | 72.5 | 78.3 |
| Zambia | Total Pr | 51.4 | 66.6 | 82.5 | 60.4 | 108 | 77.8 | 49.3 | 52.5 | 66.3 | 89.3 | 82.5 | 107.8 | 94.6 | 79.1 |
| | Per capita Pr | 88.2 | 83.5 | 82.2 | 53.7 | 93.9 | 66 | 40.8 | 90.3 | 83.3 | 89.1 | 73.6 | 93.9 | 80.4 | 65.6 |
| Zimbabwe | Total Pr | 60.3 | 82.8 | 107.1 | 38.8 | 129.1 | 110.8 | 75.1 | 49.6 | 76 | 98.1 | 76.3 | 119 | 123.2 | 104.7 |
| | Per capita Pr | 112.7 | 114.2 | 106.8 | 34.1 | 111 | 93.2 | 61.9 | 92.9 | 105 | 98 | 67.1 | 102.4 | 103.8 | 86.4 |

- : data not available.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 4. Agricultural and Food Production Indices, continued (1989-1991=100)

| Countries | Element | Livestock Production | | | | | | | Non-food Production | | | | | | |
|--------------------------------------|----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|--------------|-------------|-------------|--------------|--------------|-------------|
| | | Index | | | | | | | Index | | | | | | |
| | | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 |
| Africa | Total Pr | 62.3 | 79.1 | 100.5 | 108.2 | 110.4 | 113.3 | 116.4 | 88.2 | 84.9 | 99.1 | 99.6 | 111.6 | 115.6 | 113 |
| | Per capita Pr | 107.7 | 104.7 | 100.5 | 94.6 | 94.1 | 94 | 94.1 | 152.5 | 112.3 | 99.1 | 87.1 | 95.1 | 95.9 | 91.4 |
| Algeria | Total Pr | 32.7 | 52.3 | 102.4 | 112.7 | 110.6 | 109.9 | 109.8 | 29.7 | 45.7 | 98.2 | 106.2 | 107.3 | 107.4 | 107.2 |
| | Per capita Pr | 59.3 | 69.6 | 102.4 | 100 | 95.9 | 93 | 90.8 | 53.9 | 60.8 | 98.2 | 94.2 | 93 | 90.9 | 88.6 |
| Angola | Total Pr | 74.6 | 87.7 | 99.6 | 100.4 | 106.9 | 112.1 | 112.1 | 988.5 | 209 | 93.3 | 90.7 | 95.5 | 99.1 | 99.9 |
| | Per capita Pr | 123.2 | 115.4 | 99.6 | 85.7 | 88.2 | 89.4 | 86.4 | 1,629.90 | 274.4 | 93.2 | 77.2 | 78.7 | 79 | 76.9 |
| Benin | Total Pr | 45.8 | 69.9 | 100.4 | 107.3 | 113.9 | 117.7 | 116.7 | 25.1 | 11.6 | 100.2 | 252.6 | 279.4 | 294.6 | 294.6 |
| | Per capita Pr | 79.3 | 94.6 | 100.4 | 92.9 | 95.9 | 96.4 | 93 | 43.7 | 15.8 | 100.7 | 219.8 | 236.4 | 242.4 | 235.8 |
| Botswana | Total Pr | 87.6 | 70.6 | 100.2 | 110 | 100 | 92 | 92 | 47.4 | 100 | 100 | 100 | 100 | 81.1 | 66.3 |
| | Per capita Pr | 175.1 | 99.2 | 100.3 | 96.6 | 85.8 | 77.2 | 75.5 | 94.5 | 140.3 | 99.9 | 87.6 | 85.6 | 67.9 | 54.3 |
| British Indian Ocean Ter | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | Total Pr | 63.8 | 59.3 | 101.3 | 118.7 | 127.7 | 138.7 | 139.4 | 13.2 | 34.7 | 110.9 | 92.2 | 125.4 | 205.5 | 205.5 |
| | Per capita Pr | 106.9 | 78.1 | 101.3 | 103 | 107.7 | 113.7 | 111.2 | 22.1 | 45.7 | 111 | 79.9 | 105.7 | 168.5 | 163.8 |
| Burundi | Total Pr | 72.5 | 90.8 | 102.3 | 99.4 | 98.1 | 100.1 | 100.1 | 56.5 | 59.3 | 97.4 | 79.4 | 72.1 | 61 | 72.3 |
| | Per capita Pr | 113.1 | 120.4 | 102.2 | 89.9 | 86.4 | 85.7 | 83.2 | 88.2 | 78.8 | 97.3 | 71.8 | 63.6 | 52.3 | 60.2 |
| Cameroon | Total Pr | 45.1 | 62 | 101.1 | 107.9 | 107.9 | 107.9 | 107.9 | 73.6 | 86 | 95.3 | 87 | 100.2 | 119.3 | 119.3 |
| | Per capita Pr | 78.4 | 82.3 | 101.1 | 94 | 91.4 | 88.9 | 86.5 | 127.8 | 114.2 | 95.3 | 75.7 | 84.8 | 98.3 | 95.7 |
| Cape Verde | Total Pr | 30.9 | 37.4 | 100.2 | 170.6 | 112.9 | 113.7 | 114.1 | 214.8 | 94.3 | 95 | 20.6 | 20.6 | 20.6 | 20.6 |
| | Per capita Pr | 39.5 | 44.1 | 100.3 | 150.6 | 97.1 | 95.5 | 93.3 | 271.4 | 110 | 94.1 | 18 | 17.5 | 17.1 | 16.7 |
| Central African Republic | Total Pr | 29.3 | 50 | 99.1 | 112.5 | 136.6 | 120.4 | 122.4 | 115.7 | 88.8 | 101.7 | 85.2 | 130.7 | 136.7 | 131.3 |
| | Per capita Pr | 46.4 | 63.4 | 99.1 | 100.7 | 119.7 | 103.2 | 102.8 | 182.9 | 112.3 | 101.5 | 76.1 | 114.3 | 117 | 110 |
| Chad | Total Pr | 106.2 | 122.3 | 98.1 | 104.1 | 110.1 | 111.9 | 112.1 | 56.8 | 50.5 | 97.1 | 98.7 | 138.1 | 136.9 | 136.9 |
| | Per capita Pr | 161.5 | 151.8 | 98.2 | 91.3 | 93.9 | 92.7 | 90.3 | 86.6 | 62.8 | 97.3 | 86.6 | 117.9 | 113.6 | 110.5 |
| Comoros | Total Pr | 83.5 | 104.2 | 97.1 | 105 | 106.3 | 106.9 | 106.9 | 132.4 | 63.5 | 114.3 | 78.8 | 64.5 | 64.5 | 64.5 |
| | Per capita Pr | 158.8 | 142.2 | 97 | 89.6 | 87.9 | 85.8 | 83.1 | 250.7 | 86.4 | 113.8 | 67 | 53.2 | 51.6 | 50 |
| Congo | Total Pr | 56.8 | 79.2 | 100.9 | 113.4 | 114.8 | 118.3 | 130.8 | 93.2 | 154.5 | 92.2 | 98.7 | 98.7 | 92.9 | 95.1 |
| | Per capita Pr | 100.4 | 105.9 | 100.9 | 97.7 | 96 | 96.2 | 103.5 | 164.3 | 206.2 | 92 | 84.8 | 82.4 | 75.4 | 75.1 |
| Côte d'Ivoire | Total Pr | 42.6 | 75.9 | 100.8 | 116.3 | 117.1 | 121 | 125.7 | 68.2 | 77 | 107.2 | 84.1 | 80.8 | 122.4 | 107 |
| | Per capita Pr | 90.2 | 108.3 | 100.9 | 99.3 | 97.6 | 98.9 | 100.9 | 144.2 | 109.7 | 107.1 | 71.7 | 67.3 | 99.8 | 85.7 |
| Democratic Republic of the Congo (1) | Total Pr | 74.2 | 77 | 101.1 | 105.9 | 106.1 | 105 | 105 | 113.1 | 105.2 | 102.8 | 89.6 | 70.7 | 61.5 | 65.1 |
| | Per capita Pr | 136.9 | 106.7 | 101.1 | 87.2 | 84.8 | 81.8 | 79.8 | 208.7 | 145.8 | 102.8 | 73.7 | 56.5 | 47.9 | 49.5 |
| Djibouti | Total Pr | 24.4 | 51.9 | 108.8 | 80.2 | 80.2 | 80.2 | 80.2 | - | - | - | - | - | - | - |
| | Per capita Pr | 84.5 | 94.5 | 107.9 | 68.5 | 66.7 | 64.9 | 63.1 | - | - | - | - | - | - | - |
| Egypt | Total Pr | 56.2 | 65.6 | 99.1 | 124.3 | 136.3 | 149.5 | 151.2 | 160.5 | 170.7 | 100.3 | 84.5 | 114.5 | 113.5 | 113.6 |
| | Per capita Pr | 89.7 | 84.4 | 99.1 | 112.7 | 121.2 | 130.6 | 129.6 | 256 | 219.6 | 100.2 | 76.6 | 101.8 | 99.1 | 97.3 |
| Equatorial Guinea | Total Pr | 64.1 | 79.4 | 100 | 105.8 | 105.8 | 105.8 | 105.8 | 102.1 | 86 | 100 | 100 | 100 | 93 | 90.2 |
| | Per capita Pr | 77.5 | 128.8 | 100.1 | 93.2 | 90.9 | 88.7 | 86.6 | 123.3 | 139.4 | 100.1 | 88.1 | 85.9 | 78 | 73.9 |
| Eritrea (2) | Total Pr | - | - | - | 91.3 | 91.3 | 91.3 | 91.3 | - | - | - | 97.6 | 99.6 | 99.6 | 99.6 |
| | Per capita Pr | - | - | - | 82.9 | 80.2 | 77.1 | 74.1 | - | - | - | 88.7 | 87.5 | 84.2 | 80.9 |
| Ethiopia (2) | Total Pr | - | - | - | 103.6 | 104.7 | 104.8 | 104.8 | - | - | - | 111.2 | 111.4 | 110.8 | 103.1 |
| | Per capita Pr | - | - | - | 88.4 | 86.5 | 83.8 | 81.2 | - | - | - | 94.9 | 92.1 | 88.6 | 79.9 |
| Ethiopia PDR (2) | Total Pr | 91.4 | 89.3 | 100.5 | - | - | - | - | 88.3 | 97.2 | 100.8 | - | - | - | - |
| | Per capita Pr | 152.2 | 117.6 | 100.5 | - | - | - | - | 147.1 | 128 | 100.7 | - | - | - | - |
| Gabon | Total Pr | 77.8 | 86.3 | 100.1 | 106.8 | 107.9 | 107.9 | 107.9 | 47.2 | 35.7 | 68.8 | 141.9 | 148.3 | 149.4 | 152.6 |
| | Per capita Pr | 144.2 | 116.8 | 100.1 | 92.8 | 91.2 | 88.7 | 86.2 | 86.9 | 47.9 | 68.3 | 122.4 | 124.4 | 121.8 | 121 |
| Gambia | Total Pr | 88.7 | 93.8 | 99.3 | 106.2 | 108.8 | 112.5 | 114.8 | 0.4 | 54.9 | 73.4 | 168.3 | 213.2 | 50.5 | 50.5 |
| | Per capita Pr | 175.9 | 134.7 | 99.2 | 87.9 | 87.7 | 88.5 | 88.4 | 0.9 | 78.3 | 72.9 | 138.6 | 170.8 | 39.5 | 38.7 |
| Ghana | Total Pr | 57.6 | 80.3 | 99.1 | 102.9 | 103.1 | 103.7 | 103.3 | 95.4 | 86.1 | 89.7 | 191.5 | 250.9 | 274.7 | 274.7 |
| | Per capita Pr | 100.4 | 111.5 | 99.1 | 89.1 | 86.8 | 84.9 | 82.2 | 167.2 | 120.4 | 90.2 | 166.9 | 212.6 | 226.3 | 220.1 |
| Guinea | Total Pr | 95.3 | 116.5 | 99.2 | 127.3 | 129.3 | 134.5 | 138.7 | 39.5 | 48 | 99.7 | 112.2 | 94.3 | 90.3 | 96.3 |
| | Per capita Pr | 141 | 150.8 | 99.5 | 100.1 | 99.3 | 102 | 104.4 | 58.7 | 62.3 | 100.3 | 88.3 | 72.6 | 68.6 | 72.7 |
| Guinea-Bissau | Total Pr | 56.1 | 78.3 | 100.4 | 111.6 | 112.5 | 112.5 | 112.5 | 25.6 | 111.4 | 108.8 | 100.3 | 100.3 | 100.3 | 100.3 |
| | Per capita Pr | 102.9 | 94.9 | 100.4 | 100.6 | 99.4 | 97.5 | 95.6 | 47 | 135.2 | 108.9 | 90.5 | 88.7 | 87 | 85.3 |
| Kenya | Total Pr | 44 | 60.4 | 101.7 | 99.8 | 103.6 | 105.4 | 105.4 | 33.6 | 61.5 | 100.9 | 112.8 | 117.9 | 104.3 | 117.2 |
| | Per capita Pr | 89.8 | 85.3 | 101.7 | 86.2 | 87.5 | 87.1 | 85.2 | 68.7 | 86.8 | 100.8 | 97.5 | 99.5 | 86.1 | 94.7 |
| Lesotho | Total Pr | 91.7 | 87.9 | 102.5 | 113.9 | 105.8 | 109.1 | 109.1 | 162 | 86.9 | 110.7 | 183.1 | 112.7 | 112.7 | 112.7 |
| | Per capita Pr | 153.6 | 114.6 | 102.4 | 100.2 | 90.8 | 91.3 | 89.1 | 271.8 | 113.5 | 110.8 | 161.3 | 96.8 | 94.4 | 92.2 |
| Liberia | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Libyan Arab Jamahiriya | Total Pr | 34.7 | 71.7 | 102.7 | 91.1 | 93.7 | 97.4 | 97.4 | 59.2 | 105.3 | 101.8 | 86.7 | 86.1 | 88.2 | 88.2 |
| | Per capita Pr | 79.3 | 107.1 | 102.7 | 76.6 | 76.2 | 76.6 | 74.1 | 135.4 | 157.3 | 101.8 | 72.8 | 70 | 69.3 | 67 |
| Madagascar | Total Pr | 77.2 | 89.4 | 100.4 | 104.6 | 105.6 | 106.4 | 106.4 | 83.5 | 90 | 100.5 | 82.7 | 84.3 | 73.3 | 77.4 |
| | Per capita Pr | 142.2 | 124.6 | 100.3 | 88.9 | 86.9 | 84.9 | 82.3 | 153.5 | 125.2 | 100.3 | 70.1 | 69.2 | 58.3 | 59.8 |
| Malawi | Total Pr | 52.6 | 76 | 99.8 | 98.7 | 100 | 101.5 | 101.4 | 31 | 58.8 | 99.3 | 120.2 | 132.1 | 141.6 | 144.4 |
| | Per capita Pr | 108.1 | 114.1 | 99.4 | 94.7 | 94.3 | 93.4 | 90.7 | 63.9 | 88.4 | 98.9 | 115.5 | 124.7 | 130.5 | 129.3 |
| Mali | Total Pr | 75.9 | 93.2 | 99 | 115 | 117.3 | 119.6 | 119.6 | 16 | 54.8 | 95.5 | 134.7 | 161.8 | 181 | 195.5 |
| | Per capita Pr | 127.6 | 125.1 | 99.1 | 98.2 | 97.1 | 96 | 93.1 | 26.9 | 73.7 | 95.6 | 115.1 | 134 | 145.4 | 152.5 |
| Mauritania | Total Pr | 83.3 | 90.1 | 102.4 | 94.3 | 101.5 | 101 | 99.4 | - | - | - | - | - | - | - |
| | Per capita Pr | 136.7 | 116.4 | 102.5 | 83.1 | 87.2 | 84.6 | 81.2 | - | - | - | - | - | - | - |
| Mauritius | Total Pr | 41.2 | 64 | 100.5 | 142.2 | 146.8 | 150.7 | 150.7 | 61.3 | 83.9 | 98.7 | 72.8 | 51.4 | 38.8 | 38.3 |
| | Per capita Pr | 52.7 | 70.1 | 100.6 | 134.6 | 137.5 | 139.7 | 138.1 | 78.4 | 91.8 | 98.7 | 68.9 | 48.2 | 36 | 35.1 |

- : data not available.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 4. Agricultural and Food Production Indices, continued (1989-1991=100)

| Countries | Element | Livestock Production Index | | | | | | | Non-food Production Index | | | | | | |
|-----------------------------|---------------|----------------------------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|
| | | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 |
| Morocco | Total Pr | 47.2 | 57.7 | 99.6 | 100.6 | 93 | 101.8 | 103.2 | 49 | 45.6 | 102 | 90.9 | 94.6 | 100.2 | 101.9 |
| | Per capita Pr | 74.1 | 71.6 | 99.6 | 91.2 | 82.7 | 88.9 | 88.5 | 77 | 56.5 | 102 | 82.4 | 84.1 | 87.6 | 87.5 |
| Mozambique | Total Pr | 72.5 | 82.7 | 98.1 | 95.8 | 96.3 | 96.3 | 96.3 | 377.6 | 242.8 | 97.4 | 116.7 | 118 | 154 | 146.3 |
| | Per capita Pr | 109.9 | 97.4 | 98.5 | 79.1 | 77.1 | 75.1 | 73.4 | 573.8 | 286.5 | 98.1 | 96.5 | 94.7 | 120.4 | 111.7 |
| Namibia | Total Pr | 110.2 | 117.5 | 96.6 | 114.6 | 121.1 | 123.1 | 123.1 | 211 | 279.2 | 109.5 | 105.5 | 93.1 | 105.5 | 105.5 |
| | Per capita Pr | 188.1 | 154.1 | 96.5 | 100.8 | 103.9 | 103.1 | 100.6 | 358.6 | 365 | 109.1 | 92.4 | 79.6 | 88 | 85.9 |
| Niger | Total Pr | 98.9 | 110.9 | 99 | 114.2 | 116.1 | 115.8 | 115.8 | 158.6 | 83.9 | 84.1 | 106.7 | 106.7 | 106.7 | 106.7 |
| | Per capita Pr | 183.8 | 153.6 | 99.1 | 96.6 | 94.9 | 91.5 | 88.5 | 293.1 | 115.7 | 83.8 | 89.8 | 86.8 | 83.9 | 81.2 |
| Nigeria | Total Pr | 47.4 | 89.1 | 101.1 | 124.5 | 130 | 136.6 | 138.9 | 88.4 | 42.8 | 106 | 118.6 | 110.6 | 92.9 | 69.1 |
| | Per capita Pr | 82.7 | 119 | 101.2 | 107.2 | 108.8 | 111 | 109.8 | 154.6 | 57.2 | 106.2 | 102.3 | 92.7 | 75.6 | 54.6 |
| Réunion | Total Pr | 34.3 | 48.7 | 98.8 | 125.3 | 126.9 | 133.3 | 129.5 | 148 | 143.9 | 104.3 | 64.8 | 63.2 | 64.8 | 64.8 |
| | Per capita Pr | 45 | 58.2 | 98.9 | 115.8 | 115.6 | 119.8 | 114.8 | 194.2 | 171.8 | 104.3 | 59.8 | 57.5 | 58.2 | 57.4 |
| Rwanda | Total Pr | 45.5 | 82.8 | 99.4 | 85.5 | 85.5 | 85.5 | 85.5 | 32.1 | 61.4 | 107.2 | 62 | 49.5 | 65.1 | 70 |
| | Per capita Pr | 83.9 | 110.2 | 98.2 | 113.3 | 108.8 | 99.9 | 90 | 59.2 | 81.8 | 106.1 | 82.3 | 63.1 | 76.1 | 73.8 |
| Saint Helena | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | Total Pr | 62.4 | 67.5 | 94.7 | 134.7 | 140.4 | 144 | 144 | 669.6 | 321.4 | 198.2 | 133.9 | 133.9 | 133.9 | 133.9 |
| | Per capita Pr | 101.9 | 85.6 | 94.8 | 120.7 | 123.3 | 124.3 | 121.7 | 1,092.90 | 407.4 | 198.4 | 120 | 117.7 | 115.6 | 113.2 |
| Senegal | Total Pr | 57 | 61.8 | 98.7 | 131.3 | 133.8 | 136.1 | 135.7 | 27.2 | 50.8 | 90.5 | 96.9 | 128.9 | 173.6 | 173.6 |
| | Per capita Pr | 100.5 | 81.9 | 98.8 | 115.8 | 115 | 113.9 | 110.6 | 48.2 | 67.4 | 90.8 | 85.8 | 111.1 | 145.7 | 141.9 |
| Seychelles | Total Pr | 23.1 | 64.2 | 99.8 | 144.7 | 131.3 | 136.1 | 136.1 | 11.3 | 20.7 | 107.7 | 111.2 | 109.7 | 110.7 | 110.7 |
| | Per capita Pr | 30.5 | 71.2 | 99.7 | 138.6 | 124.5 | 128.6 | 126.9 | 14.9 | 23 | 107.8 | 106.7 | 104.2 | 104.8 | 103.4 |
| Sierra Leone | Total Pr | 62.3 | 84 | 100.8 | 106.7 | 107.4 | 108.1 | 108.9 | 28.4 | 43.6 | 100.1 | 96.5 | 96.5 | 113.5 | 96.5 |
| | Per capita Pr | 93.6 | 103.5 | 100.6 | 101.5 | 99.7 | 97.4 | 94.9 | 42.7 | 53.7 | 99.9 | 91.8 | 89.6 | 102.3 | 84.1 |
| Somalia | Total Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Per capita Pr | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| South Africa | Total Pr | 76.3 | 89.5 | 100.9 | 91.4 | 90.4 | 91.3 | 107.8 | 119.9 | 106.5 | 98 | 61.1 | 70 | 67.9 | 69.8 |
| | Per capita Pr | 125.9 | 113.8 | 101 | 81.7 | 79.1 | 78.1 | 90.2 | 197.9 | 135.2 | 97.9 | 54.6 | 61.2 | 58.1 | 58.3 |
| Sudan | Total Pr | 55 | 91.6 | 100.2 | 118.9 | 123.7 | 125.9 | 127.2 | 153.2 | 90 | 105.5 | 107 | 105.3 | 98.8 | 101.7 |
| | Per capita Pr | 95.5 | 117.9 | 100.2 | 107.2 | 109.1 | 108.6 | 107.3 | 265.4 | 115.6 | 105.3 | 96.2 | 92.7 | 85.1 | 85.6 |
| Swaziland | Total Pr | 73 | 99.7 | 92.8 | 111.8 | 108.8 | 111.4 | 109.7 | 29.8 | 85.4 | 91.8 | 24.5 | 55 | 42.8 | 43.3 |
| | Per capita Pr | 129.9 | 132.8 | 93 | 97.4 | 92.1 | 91.7 | 87.9 | 52.8 | 113.2 | 91.6 | 21.2 | 46.4 | 35.1 | 34.6 |
| Togo | Total Pr | 45.5 | 49.6 | 103.8 | 120.4 | 122.2 | 125.1 | 128.4 | 27.8 | 33.6 | 89.8 | 105 | 129.2 | 145.4 | 125.4 |
| | Per capita Pr | 79.5 | 67 | 104 | 104 | 102.6 | 102.3 | 102.2 | 48.7 | 45.4 | 90.1 | 90.9 | 108.7 | 119.1 | 100 |
| Tunisia | Total Pr | 41.1 | 64.3 | 98.8 | 126.4 | 129 | 130.5 | 132.1 | 44.6 | 72.7 | 102.6 | 75.1 | 74.1 | 74 | 73.8 |
| | Per capita Pr | 65.4 | 81.3 | 98.9 | 114.8 | 115.1 | 114.2 | 113.6 | 71.1 | 92 | 102.6 | 68.3 | 66.1 | 64.7 | 63.5 |
| Uganda | Total Pr | 63 | 82.8 | 102.1 | 112.1 | 113.4 | 114.9 | 114.9 | 202 | 82.4 | 88 | 130.9 | 196.3 | 164.6 | 143.1 |
| | Per capita Pr | 107.1 | 105.2 | 102.3 | 95 | 93.4 | 92.2 | 89.9 | 343.1 | 104.6 | 88 | 110.8 | 161.4 | 131.8 | 111.8 |
| United Republic of Tanzania | Total Pr | 57.5 | 67.2 | 99.9 | 111.6 | 111.3 | 113.1 | 115.9 | 111.6 | 97.2 | 93 | 96.1 | 124.5 | 115.4 | 97.4 |
| | Per capita Pr | 107.1 | 92.2 | 100 | 94.8 | 92.2 | 91.6 | 91.8 | 208 | 133.5 | 93.1 | 81.7 | 103.1 | 93.5 | 77.2 |
| Zambia | Total Pr | 61.6 | 88.2 | 99.8 | 102.8 | 107.3 | 108.2 | 108.2 | 33.5 | 48.9 | 77.7 | 100.8 | 86.4 | 81.4 | 72.1 |
| | Per capita Pr | 106.2 | 111 | 99.8 | 92 | 93.7 | 92.2 | 89.9 | 57.7 | 61.6 | 77.7 | 90.1 | 75.4 | 69.3 | 60 |
| Zimbabwe | Total Pr | 71.1 | 83.2 | 104 | 95.1 | 96.4 | 98.1 | 100.8 | 38.1 | 77.4 | 90 | 103.4 | 128.7 | 136.8 | 133.8 |
| | Per capita Pr | 133.2 | 115.1 | 103.9 | 83.7 | 83 | 82.7 | 83.2 | 71.5 | 107 | 90 | 91.1 | 110.9 | 115.4 | 110.6 |

- : data not available.

(1) : Former Zaïre.

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 5. Daily Per Capita Calories, Protein and Fat Supply

| Countries | Daily per capita supply of calories | | | | Daily per capita Protein supply | | | | Daily per capita Fat supply | | | |
|--------------------------------------|-------------------------------------|--------------|--------------------|------------|---------------------------------|--------------|--------------------|------------|-----------------------------|--------------|--------------------|------------|
| | | | Average annual | | | | Average annual | | | | Average annual | |
| | Calories | | rate of change (%) | | (Grams) | | rate of change (%) | | (Grams) | | rate of change (%) | |
| | 1990 | 1996 | 1980-90 | 1990-96 | 1990 | 1996 | 1980-90 | 1990-96 | 1990 | 1996 | 1980-90 | 1990-96 |
| Africa | 2,325 | 2,400 | 0.2 | 0.5 | 58.34 | 59.51 | 0.2 | 0.3 | 48.47 | 50.47 | 0.1 | 0.7 |
| Algeria | 2,919 | 3,020 | 0.9 | 0.6 | 78 | 81 | 1.4 | 0.6 | 72 | 71 | 2.0 | -0.2 |
| Angola | 1,813 | 1,983 | -1.8 | 1.5 | 43 | 43 | -1.7 | 0.0 | 46 | 40 | -0.8 | -2.3 |
| Benin | 2,252 | 2,415 | 1.0 | 1.2 | 55 | 57 | 0.8 | 0.6 | 43 | 43 | -0.7 | 0.0 |
| Botswana | 2,324 | 2,272 | 1.0 | -0.4 | 73 | 72 | 0.9 | -0.2 | 62 | 57 | 2.8 | -1.4 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 2,054 | 2,137 | 2.0 | 0.7 | 61 | 63 | 2.0 | 0.5 | 45 | 49 | 4.1 | 1.4 |
| Burundi | 1,946 | 1,708 | -0.4 | -2.2 | 62 | 54 | -0.9 | -2.3 | 14 | 12 | -1.3 | -2.5 |
| Cameroon | 2,199 | 2,175 | -0.7 | -0.2 | 52 | 51 | -1.3 | -0.3 | 46 | 45 | -0.8 | -0.4 |
| Cape Verde | 2,885 | 3,135 | 1.1 | 1.4 | 67 | 63 | -0.4 | -1.0 | 78 | 109 | 5.0 | 5.7 |
| Central African Republic | 1,912 | 1,938 | -1.8 | 0.2 | 40 | 45 | 1.6 | 2.0 | 61 | 64 | -0.3 | 0.8 |
| Chad | 1,666 | 1,972 | 0.2 | 2.9 | 45 | 57 | -0.8 | 4.0 | 38 | 55 | -0.3 | 6.4 |
| Comoros | 1,858 | 1,824 | 0.3 | -0.3 | 42 | 42 | 0.5 | 0.0 | 36 | 41 | -0.5 | 2.2 |
| Congo | 2,169 | 2,107 | -0.3 | -0.5 | 46 | 41 | 0.9 | -1.9 | 46 | 56 | -0.2 | 3.3 |
| Côte d'Ivoire | 2,459 | 2,421 | -1.4 | -0.3 | 53 | 51 | -1.1 | -0.6 | 48 | 43 | -1.0 | -1.8 |
| Democratic Republic of the Congo (1) | 2,116 | 1,815 | 0.2 | -2.5 | 34 | 30 | 0.0 | -2.1 | 34 | 30 | 0.0 | -2.1 |
| Djibouti | 1,815 | 1,920 | -0.2 | 0.9 | 45 | 39 | -0.4 | -2.4 | 40 | 54 | -0.7 | 5.1 |
| Egypt | 3,174 | 3,289 | 0.9 | 0.6 | 84 | 88 | 1.4 | 0.8 | 58 | 58 | -1.1 | 0.0 |
| Equatorial Guinea | - | - | - | - | - | - | - | - | - | - | - | - |
| Eritrea (2) | 1,530 a | 1,586 | - | 1.2 a | 48 a | 49 | - | 0.7 a | 25 a | 20 | - | -7.2 a |
| Ethiopia (2) | 1,629 a | 1,845 | - | 4.2 a | 52 a | 59 | - | 4.3 a | 23 a | 22 | - | -1.5 a |
| Ethiopia PDR (2) | 1,585 | - | -1.6 | - | 50 | - | -1.8 | - | 25 | - | -0.4 | - |
| Gabon | 2,370 | 2,517 | -0.1 | 1.0 | 65 | 70 | -0.9 | 1.2 | 48 | 50 | 0.9 | 0.7 |
| Gambia | 2,434 | 2,332 | 3.6 | -0.7 | 50 | 47 | 1.8 | -1.0 | 56 | 57 | 4.5 | 0.3 |
| Ghana | 1,953 | 2,560 | 0.1 | 4.6 | 43 | 49 | -0.2 | 2.2 | 36 | 34 | 0.0 | -0.9 |
| Guinea | 2,032 | 2,099 | -0.9 | 0.5 | 46 | 44 | -0.6 | -0.7 | 43 | 47 | -1.7 | 1.5 |
| Guinea-Bissau | 2,425 | 2,381 | 2.9 | -0.3 | 49 | 48 | 2.3 | -0.3 | 65 | 57 | 1.7 | -2.2 |
| Kenya | 1,897 | 1,971 | -1.2 | 0.6 | 52 | 51 | -0.7 | -0.3 | 45 | 47 | -0.9 | 0.7 |
| Lesotho | 2,288 | 2,209 | 0.4 | -0.6 | 66 | 62 | 0.3 | -1.0 | 34 | 33 | 0.9 | -0.5 |
| Liberia | 1,937 | 2,161 | -2.6 | 1.8 | 34 | 39 | -3.6 | 2.3 | 45 | 73 | -0.4 | 8.4 |
| Libyan Arab Jamahiriya | 3,262 | 3,132 | -0.5 | -0.7 | 80 | 72 | -1.2 | -1.7 | 111 | 113 | 0.0 | 0.3 |
| Madagascar | 2,147 | 2,001 | -1.1 | -1.2 | 50 | 46 | -1.3 | -1.4 | 30 | 31 | -1.8 | 0.5 |
| Malawi | 1,973 | 2,097 | -1.3 | 1.0 | 55 | 56 | -1.8 | 0.3 | 28 | 29 | -2.7 | 0.6 |
| Mali | 2,077 | 2,027 | 1.4 | -0.4 | 57 | 61 | 0.5 | 1.1 | 49 | 42 | 1.1 | -2.5 |
| Mauritania | 2,515 | 2,653 | 1.7 | 0.9 | 77 | 78 | 0.5 | 0.2 | 67 | 64 | 1.5 | -0.8 |
| Mauritius | 2,849 | 2,952 | 0.7 | 0.6 | 70 | 78 | 1.2 | 1.8 | 75 | 82 | 1.6 | 1.5 |
| Morocco | 3,134 | 3,244 | 1.4 | 0.6 | 88 | 86 | 2.2 | -0.4 | 59 | 65 | 1.7 | 1.6 |
| Mozambique | 1,869 | 1,799 | -0.4 | -0.6 | 33 | 35 | 0.0 | 1.0 | 38 | 33 | 1.4 | -2.3 |
| Namibia | 2,197 | 2,168 | -0.1 | -0.2 | 62 | 59 | -1.1 | -0.8 | 37 | 37 | -1.5 | 0.0 |
| Niger | 2,114 | 2,116 | -0.4 | 0.0 | 56 | 62 | -1.6 | 1.7 | 35 | 32 | -0.3 | -1.5 |
| Nigeria | 2,275 | 2,609 | 1.5 | 2.3 | 51 | 56 | 1.7 | 1.6 | 54 | 66 | 0.4 | 3.4 |
| Réunion | - | - | - | - | - | - | - | - | - | - | - | - |
| Rwanda | 1,956 | 2,142 | -1.6 | 1.5 | 46 | 47 | -1.6 | 0.4 | 15 | 25 | 0.0 | 8.9 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | 2,146 | 2,156 | 0.2 | 0.1 | 47 | 44 | 0.0 | -1.1 | 81 | 70 | 1.9 | -2.4 |
| Senegal | 2,422 | 2,394 | 0.5 | -0.2 | 70 | 68 | 0.7 | -0.5 | 61 | 67 | -0.3 | 1.6 |
| Seychelles | 2,319 | 2,424 | 0.2 | 0.7 | 69 | 75 | 0.6 | 1.4 | 52 | 72 | 1.9 | 5.6 |
| Sierra Leone | 2,018 | 2,002 | -0.3 | -0.1 | 43 | 44 | -0.5 | 0.4 | 56 | 55 | -0.9 | -0.3 |
| Somalia | 1,765 | 1,532 | -0.2 | -2.3 | 57 | 53 | -0.3 | -1.2 | 61 | 61 | -1.6 | 0.0 |
| South Africa | 2,943 | 2,933 | 0.3 | -0.1 | 76 | 73 | 0.1 | -0.7 | 73 | 79 | 0.6 | 1.3 |
| Sudan | 2,152 | 2,391 | -0.5 | 1.8 | 65 | 74 | 0.0 | 2.2 | 62 | 72 | -2.6 | 2.5 |
| Swaziland | 2,666 | 2,529 | 0.8 | -0.9 | 65 | 62 | 0.2 | -0.8 | 52 | 43 | 1.2 | -3.1 |
| Togo | 2,451 | 2,155 | 1.1 | -2.1 | 57 | 53 | 1.7 | -1.2 | 48 | 42 | 4.1 | -2.2 |
| Tunisia | 3,220 | 3,250 | 1.1 | 0.2 | 84 | 88 | 0.5 | 0.8 | 94 | 85 | 2.8 | -1.7 |
| Uganda | 2,313 | 2,110 | 1.1 | -1.5 | 55 | 46 | 1.6 | -2.9 | 30 | 29 | 4.1 | -0.6 |
| United Republic of Tanzania | 2,194 | 2,028 | -0.4 | -1.3 | 53 | 51 | -0.5 | -0.6 | 31 | 31 | 0.0 | 0.0 |
| Zambia | 2,067 | 1,939 | -0.6 | -1.1 | 52 | 51 | -1.1 | -0.3 | 34 | 29 | -0.3 | -2.6 |
| Zimbabwe | 2,159 | 2,083 | -0.6 | -0.6 | 54 | 50 | -1.2 | -1.3 | 53 | 54 | -0.5 | 0.3 |

- : data not available.

a : Data cover 1993. For average annual rate of change, it refers to the period 1993-1996

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 6. Performance of the Agricultural Sector: Agricultural GDP

| Countries | Agricultural GDP | | | | | Agriculture share | | |
|--------------------------------------|---|---------------|-----------------|-----------------------------------|---------------|-------------------|--------------|----------------|
| | (in constant 1987 prices, million US \$) | | | Average annual growth rate (%) | | in GDP (%) | | |
| | 1980 | 1990 | 1996 | 1980-90 | 1990-96 | 1980 | 1990 | 1996 |
| Africa | 66,200 | 80,604 | 86,517 a | 1.99 | 1.43 a | 18.43 | 18.73 | 18.53 a |
| Algeria | 4,772 | 6,372 | 7,658 a | 2.93 | 3.75 a | 9.53 | 9.71 | 11.47 a |
| Angola | - | 954 | 1,036 a | - | 1.66 a | - | 12.22 | 14.16 a |
| Benin | 435 | 654 | 895 | 4.15 | 5.38 | 35.04 | 38.39 | 40.43 |
| Botswana | 113 | 135 | 142 a | 1.81 | 1.02 a | 13.89 | 6.32 | 5.28 a |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - |
| Burkina Faso | 552 | 716 | 922 | 2.63 | 4.32 | 34.17 | 31.39 | 32.72 |
| Burundi | 435 | 600 | 460 | 3.27 | -4.33 | 54.00 | 48.08 | 46.37 |
| Cameroon | 2,156 | 2,734 | 3,131 | 2.40 | 2.29 | 28.59 | 26.17 | 31.22 |
| Cape Verde | 16 | 29 | 28 | 5.76 | -0.39 | 13.64 | 10.75 | 8.51 |
| Central African Republic | 476 | 565 | 671 | 1.72 | 2.91 | 44.40 | 46.17 | 53.56 |
| Chad | 310 | 326 | 484 | 0.50 | 6.82 | 53.99 | 33.64 | 43.57 |
| Comoros | 57 | 82 | 88 | 3.76 | 1.06 | 37.04 | 40.01 | 41.85 |
| Congo | 218 | 308 | 322 | 3.51 | 0.73 | 14.51 | 12.72 | 12.73 |
| Côte d'Ivoire | 3,128 | 3,404 | 4,035 | 0.85 | 2.88 | 32.69 | 32.76 | 33.40 |
| Democratic Republic of the Congo (1) | 1,875 | 2,410 | 2,881 a | 2.54 | 3.63 a | 28.78 | 33.97 | 59.95 a |
| Djibouti | - | - | - | - | - | - | - | - |
| Egypt | 6,639 | 8,705 | 9,957 a | 2.75 | 2.72 a | 23.94 | 18.45 | 17.90 a |
| Equatorial Guinea | - | 75 | 71 b | - | -0.99 b | - | 59.37 | 43.50 b |
| Eritrea | - | - | - | - | - | - | - | - |
| Ethiopia | - | 3,526 | 4,350 | - | 3.56 | - | 45.01 | 44.43 |
| Gabon | 344 | 384 | 332 | 1.11 | -2.43 | 8.05 | 8.57 | 6.32 |
| Gambia | 50 | 73 | 73 a | 3.76 | 0.14 a | 29.68 | 29.29 | 27.20 a |
| Ghana | 2,626 | 2,717 | 3,234 | 0.34 | 2.95 | 56.43 | 46.92 | 42.96 |
| Guinea | - | 550 | 708 | - | 4.31 | - | 23.36 | 24.02 |
| Guinea-Bissau | 57 | 100 | 136 | 5.77 | 5.15 | 47.53 | 51.09 | 56.17 |
| Kenya | 1,704 | 2,441 | 2,553 | 3.66 | 0.74 | 27.66 | 26.44 | 24.47 |
| Lesotho | 65 | 74 | 57 a | 1.25 | -5.10 a | 20.09 | 15.11 | 8.75 a |
| Liberia | - | - | - | - | - | - | - | - |
| Libyan Arab Jamahiriya | - | - | - | - | - | - | - | - |
| Madagascar | 720 | 889 | 995 | 2.13 | 1.90 | 26.59 | 31.20 | 34.95 |
| Malawi | 463 | 531 | 804 | 1.38 | 7.15 | 44.05 | 40.56 | 48.55 |
| Mali | 843 | 1,018 | 1,205 | 1.90 | 2.85 | 47.82 | 46.28 | 46.17 |
| Mauritania | 216 | 257 | 334 | 1.72 | 4.51 | 26.69 | 27.16 | 27.96 |
| Mauritius | 147 | 221 | 238 | 4.15 | 1.30 | 11.73 | 9.81 | 7.87 |
| Morocco | 2,598 | 3,761 | 2,481 a | 3.77 | -7.98 a | 17.14 | 17.08 | 10.73 a |
| Mozambique | - | - | - | - | - | - | - | - |
| Namibia | 216 | 251 | 360 | 1.52 | 6.16 | 11.69 | 12.79 | 13.76 |
| Niger | 757 | 847 | 1,034 | 1.13 | 3.38 | 29.75 | 35.60 | 40.21 |
| Nigeria | 8,409 | 10,131 | 11,653 | 1.88 | 2.36 | 31.87 | 33.91 | 33.29 |
| Réunion | - | - | - | - | - | - | - | - |
| Rwanda | 766 | 799 | 599 | 0.43 | -4.69 | 43.62 | 36.36 | 40.24 |
| Saint Helena | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | 19 | 13 c | - | -6.83 c | - | 32.49 | 22.77 c |
| Senegal | 684 | 956 | 1,080 | 3.40 | 2.06 | 18.66 | 19.19 | 19.29 |
| Seychelles | 15 | 15 | 12 | -0.29 | -2.73 | 6.79 | 4.77 | 3.54 |
| Sierra Leone | 313 | 414 | 370 | 2.83 | -1.86 | 37.84 | 45.24 | 49.91 |
| Somalia | 454 | 632 | - | 3.36 | - | 55.54 | 64.01 | - |
| South Africa | 4,315 | 5,183 | 5,858 | 1.85 | 2.06 | 5.70 | 5.97 | 6.29 |
| Sudan | 4,545 | 4,793 | 4,592 d | 0.53 | -0.85 d | 31.02 | 29.12 | 27.72 d |
| Swaziland | 67 | 78 | 74 | 1.43 | -0.73 | 16.43 | 11.90 | 10.21 |
| Togo | 320 | 497 | 530 | 4.50 | 1.10 | 25.79 | 35.86 | 38.22 |
| Tunisia | 1,163 | 1,713 | 1,585 a | 3.95 | -1.54 a | 15.48 | 16.03 | 12.28 a |
| Uganda | - | 4,056 | 5,070 | - | 3.79 | - | 52.84 | 43.39 |
| United Republic of Tanzania | - | 1,839 | 2,214 a | - | 3.78 a | - | 47.33 | 48.25 a |
| Zambia | 205 | 261 | 264 | 2.44 | 0.18 | 9.51 | 10.99 | 10.95 |
| Zimbabwe | 646 | 785 | 1,069 | 1.97 | 5.28 | 14.62 | 12.74 | 15.61 |

- : data not available.

(1): Former Zaire

a: Data cover 1995. For annual growth rate of Agricultural GDP, it refers to the period 1990-1995.

b: Data cover 1994. For annual growth rate of Agricultural GDP, it refers to the period 1990-1994.

c: Data cover 1993. For annual growth rate of Agricultural GDP, it refers to the period 1990-1993.

d: Data cover 1991. For annual growth rate of Agricultural GDP, it refers to the period 1990-1991.

Table 7. Performance of the Agricultural Sector: Crop Yields and Change

| Countries | Cereals, total | | | | | | Roots and tubers, total | | | | |
|--------------------------------------|----------------|---------------|-----------------|------------|------------|--|-------------------------|---------------|-----------------|------------|-------------|
| | Yields | | Average annual | | | | Yields | | Average annual | | |
| | (HG/HA) | | growth rate (%) | | | | (HG/HA) | | growth rate (%) | | |
| | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 | | 1990 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 |
| Africa | 11,580 | 11,904 | 2.0 | 0.3 | 0.4 | | 77,950 | 78,768 | 0.7 | 1.5 | -0.1 |
| Algeria | 6,877 | 7,797 | 1.8 | -1.0 | 1.8 | | 78,936 | 141,042 | 2.2 | 0.2 | 8.6 |
| Angola | 3,206 | 5,699 | -3.8 | -6.4 | 8.6 | | 42,082 | 46,109 | -0.1 | 1.2 | 1.3 |
| Benin | 8,479 | 11,338 | 2.2 | 1.7 | 4.2 | | 92,304 | 103,555 | 3.0 | 1.9 | 1.7 |
| Botswana | 2,594 | 2,537 | 13.7 | 1.3 | -0.3 | | 53,846 | 62,500 | 2.2 | 0.0 | 2.2 |
| British Indian Ocean Terri. | - | - | - | - | - | | - | - | - | - | - |
| Burkina Faso | 6,002 | 7,050 | 1.0 | 0.5 | 2.3 | | 54,600 | 58,644 | 7.1 | -4.8 | 1.0 |
| Burundi | 13,485 | 14,976 | -0.3 | 2.4 | 1.5 | | 68,373 | 63,860 | 0.1 | 0.1 | -1.0 |
| Cameroon | 12,414 | 12,082 | 0.8 | 3.7 | -0.4 | | 63,962 | 56,366 | -0.6 | 5.1 | -1.8 |
| Cape Verde | 3,346 | 3,333 | 5.6 | -4.5 | -0.1 | | 94,157 | 101,587 | 0.4 | 11.0 | 1.1 |
| Central African Republic | 8,617 | 10,205 | -3.1 | 5.2 | 2.4 | | 33,419 | 37,344 | 0.6 | 0.3 | 1.6 |
| Chad | 5,574 | 6,491 | -2.5 | 0.2 | 2.2 | | 47,427 | 41,303 | 1.5 | 0.4 | -2.0 |
| Comoros | 12,807 | 13,125 | -0.4 | 1.9 | 0.4 | | 52,245 | 58,036 | 0.1 | -0.7 | 1.5 |
| Congo | 8,406 | 7,992 | -0.7 | 0.2 | -0.7 | | 65,295 | 71,207 | 3.9 | -0.4 | 1.2 |
| Côte d'Ivoire | 8,848 | 11,746 | 1.1 | -0.5 | 4.1 | | 56,671 | 58,099 | 2.7 | 0.4 | 0.4 |
| Democratic Republic of the Congo (1) | 7,999 | 7,398 | 0.9 | 0.0 | -1.1 | | 79,293 | 74,373 | 0.1 | 1.3 | -0.9 |
| Djibouti | 16,667 | 16,250 | - | - | -0.4 | | - | - | - | - | - |
| Egypt | 57,029 | 66,679 | 0.5 | 3.4 | 2.3 | | 212,651 | 148,390 | 0.3 | 1.6 | -5.0 |
| Equatorial Guinea | - | - | - | - | - | | 28,846 | 25,758 | -0.7 | -0.1 | -1.6 |
| Eritrea (2) | 2,637 a | 4,467 | - | - | 14.1 a | | 28,039 a | 28,278 | - | - | 0.2 a |
| Ethiopia (2) | 13,237 a | 10,661 | - | - | -5.3 a | | 36,194 a | 36,976 | - | - | 0.5 a |
| Ethiopia PDR (2) | 12,761 | - | 3.6 | 0.7 | - | | 36,497 | - | 0.3 | -0.2 | - |
| Gabon | 16,433 | 17,283 | 1.4 | -0.3 | 0.7 | | 54,009 | 56,162 | 0.5 | 0.4 | 0.6 |
| Gambia | 10,079 | 9,496 | 1.8 | -2.7 | -0.8 | | 30,000 | 30,000 | -2.6 | 0.0 | 0.0 |
| Ghana | 9,892 | 14,026 | -1.8 | 3.3 | 5.1 | | 75,522 | 112,638 | 1.6 | 1.4 | 5.9 |
| Guinea | 9,400 | 12,600 | 0.1 | -0.2 | 4.3 | | 73,191 | 68,391 | 0.1 | 0.3 | -1.0 |
| Guinea-Bissau | 15,307 | 14,801 | -1.3 | 8.2 | -0.5 | | 69,830 | 69,767 | -1.0 | 2.3 | 0.0 |
| Kenya | 14,882 | 14,296 | -0.3 | 1.8 | -0.6 | | 85,772 | 74,831 | -0.3 | 1.5 | -1.9 |
| Lesotho | 10,362 | 9,779 | 4.7 | 0.8 | -0.8 | | 155,172 | 163,636 | 1.2 | 0.3 | 0.8 |
| Liberia | 9,250 | 12,667 | 0.0 | -2.8 | 4.6 | | 70,681 | 69,036 | 1.1 | 0.3 | -0.3 |
| Libyan Arab Jamahiriya | 6,745 | 6,846 | 5.8 | 5.7 | 0.2 | | 78,378 | 72,973 | 0.6 | 1.0 | -1.0 |
| Madagascar | 19,453 | 20,003 | -1.0 | 1.5 | 0.4 | | 64,280 | 64,422 | -0.9 | 1.0 | 0.0 |
| Malawi | 9,915 | 9,648 | 2.9 | -1.8 | -0.4 | | 44,407 | 46,806 | 0.1 | -3.6 | 0.8 |
| Mali | 7,480 | 10,935 | -1.3 | 0.3 | 5.6 | | 47,500 | 49,779 | -3.4 | 0.3 | 0.7 |
| Mauritania | 8,698 | 6,330 | 2.1 | 7.5 | -4.4 | | 19,329 | 21,154 | 4.8 | -3.7 | 1.3 |
| Mauritius | 41,927 | 52,727 | -1.2 | 5.5 | 3.3 | | 172,232 | 218,588 | 0.6 | 0.5 | 3.5 |
| Morocco | 11,201 | 8,348 | 0.8 | 0.9 | -4.1 | | 162,342 | 180,147 | 3.8 | 1.3 | 1.5 |
| Mozambique | 4,739 | 8,215 | -5.0 | -2.3 | 8.2 | | 49,182 | 54,351 | 1.4 | 1.6 | 1.4 |
| Namibia | 4,614 | 4,871 | 0.6 | 2.0 | 0.8 | | 84,800 | 85,714 | -0.1 | 0.1 | 0.2 |
| Niger | 2,151 | 3,352 | 1.6 | -7.3 | 6.5 | | 76,248 | 74,504 | -0.4 | 0.6 | -0.3 |
| Nigeria | 11,479 | 11,895 | 4.3 | 0.4 | 0.5 | | 109,311 | 100,844 | -0.2 | 1.3 | -1.1 |
| Réunion | 43,074 | 67,244 | 3.0 | 0.1 | 6.6 | | 112,527 | 87,923 | 1.6 | -1.7 | -3.5 |
| Rwanda | 12,697 | 12,118 | 0.8 | 0.5 | -0.7 | | 64,248 | 62,507 | 1.3 | -2.7 | -0.4 |
| Saint Helena | - | - | - | - | - | | - | - | - | - | - |
| Sao Tome and Principe | 19,286 | 21,765 | -0.1 | 2.5 | 1.7 | | 76,050 | 67,401 | 0.2 | -1.1 | -1.7 |
| Senegal | 7,950 | 7,041 | 1.4 | 3.8 | -1.7 | | 40,493 | 32,773 | -0.4 | -0.2 | -3.0 |
| Seychelles | - | - | - | - | - | | 50,000 | 50,000 | -2.1 | 0.0 | 0.0 |
| Sierra Leone | 11,993 | 12,052 | -0.8 | -0.4 | 0.1 | | 55,354 | 45,031 | -1.0 | 5.3 | -2.9 |
| Somalia | 7,930 | 4,035 | -0.6 | 5.5 | -9.2 | | 104,141 | 100,000 | 0.2 | -0.5 | -0.6 |
| South Africa | 18,025 | 20,227 | 4.5 | -1.1 | 1.7 | | 172,196 | 217,219 | 0.5 | 3.8 | 3.4 |
| Sudan | 4,557 | 5,358 | -1.4 | -3.2 | 2.3 | | 25,332 | 26,909 | -1.2 | -2.8 | 0.9 |
| Swaziland | 10,652 | 17,611 | 7.9 | -2.6 | 7.4 | | 13,669 | 19,302 | -5.5 | -3.7 | 5.1 |
| Togo | 7,468 | 9,195 | -2.4 | 1.6 | -3.0 | | 77,474 | 70,427 | -2.9 | -1.4 | -1.4 |
| Tunisia | 11,469 | 9,239 | 5.2 | 2.3 | -3.0 | | 136,478 | 147,297 | 4.2 | 2.0 | 1.1 |
| Uganda | 14,976 | 12,181 | 0.9 | 0.0 | -2.9 | | 62,287 | 49,029 | 3.6 | 0.1 | -3.4 |
| United Republic of Tanzania | 14,617 | 11,740 | 5.9 | 3.7 | -3.1 | | 96,824 | 78,114 | 5.4 | 1.5 | -3.0 |
| Zambia | 13,521 | 14,938 | 9.4 | -1.5 | 1.4 | | 54,077 | 65,088 | 0.5 | -0.1 | 2.7 |
| Zimbabwe | 16,246 | 12,298 | 2.3 | 3.2 | -3.9 | | 48,258 | 46,034 | -0.2 | 1.9 | -0.7 |

- : data not available.

a : Data cover 1993. For the average annual growth rate, it refers to the period 1993-1997.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 8. Machinery Use in Agriculture

| Countries | Harvester-threshers | | | | Tractors | | | | Milking machines | Total agricultural machinery | | | |
|----------------------------------|---------------------|---------------|--------------------|--------------|----------------|----------------|--------------------|-------------|------------------|------------------------------|----------------|---------------|-------------|
| | Total | | Average annual | | Total | | Average annual | | Total | Total | | Annual change | |
| | Number | | rate of change (%) | | Number | | rate of change (%) | | Number | number | | rate (%) | |
| | 1990 | 1996 | 1980-1990 | 1990-1996 | 1990 | 1996 | 1980-199 | 1990-1996 | 1996 | 1990 | 1996 | 1980-1990 | 1990-1996 |
| Africa | 42,744 | 39,809 | 0.03 | -1.18 | 524,562 | 567,397 | 1.81 | 1.32 | - | 563,578 | 607,331 | 1.59 | 1.25 |
| Algeria | 9,300 | 9,163 | 7.65 | -0.25 | 91,000 | 92,023 | 6.83 | 0.19 | - | 100,300 | 101,186 | 6.90 | 0.15 |
| Angola | - | - | - | - | 10,290 | 10,300 | 0.04 | 0.02 | - | 10,290 | 10,300 | 0.04 | 0.02 |
| Benin | - | - | - | - | 127 | 140 | 1.92 | 1.64 | - | 127 | 140 | 1.92 | 1.64 |
| Botswana | 92 | 95 | 1.41 | 0.54 | 5,900 | 6,000 | 10.62 | 0.28 | - | 5,992 | 6,095 | 10.39 | 0.28 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | - | - | - | - | 840 | 1,950 | 22.00 | 15.07 | - | 840 | 1,950 | 22.00 | 15.07 |
| Burundi | 2 | 2 | 7.18 | 0.00 | 163 | 170 | 6.12 | 0.70 | 3 | 166 | 175 | 6.20 | 0.88 |
| Cameroon | - | - | - | - | 508 | 500 | -1.18 | -0.26 | - | 508 | 500 | -1.18 | -0.26 |
| Cape Verde | - | - | - | - | 16 | 16 | 2.10 | 0.00 | - | 16 | 16 | 2.10 | 0.00 |
| Central African Republic | 16 | 20 | 4.81 | 3.79 | 205 | 210 | 2.84 | 0.40 | - | 221 | 230 | 2.97 | 0.67 |
| Chad | 18 | 17 | 0.57 | -0.95 | 165 | 170 | 0.31 | 0.50 | - | 183 | 187 | 0.33 | 0.36 |
| Comoros | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Congo | 55 | 85 | 5.57 | 7.52 | 700 | 700 | 0.44 | 0.00 | - | 755 | 785 | 0.73 | 0.65 |
| Côte d'Ivoire | 62 | 70 | 5.30 | 2.04 | 3,550 | 3,800 | 1.53 | 1.14 | - | 3,612 | 3,870 | 1.58 | 1.16 |
| Democratic Rep. of the Congo (1) | - | - | - | - | 2,400 | 2,430 | 2.36 | 0.21 | - | 2,400 | 2,430 | 2.36 | 0.21 |
| Djibouti | - | - | - | - | 8 | 6 | 2.92 | -4.68 | - | 8 | 6 | 2.92 | -4.68 |
| Egypt | 2,340 | 2,370 | 1.04 | 0.21 | 57,000 | 90,000 | 4.70 | 7.91 | - | 59,340 | 92,370 | 4.53 | 7.65 |
| Equatorial Guinea | - | - | - | - | 100 | 100 | 0.20 | 0.00 | - | 100 | 100 | 0.20 | 0.00 |
| Eritrea (2) | 40 a | 40 | - | 0.00 a | 850 a | 850 | - | 0.00 a | - | 890 a | 890 | - | 0.00 a |
| Ethiopia (2) | 100 a | 100 | - | 0.00 a | 3,000 a | 3,000 | - | 0.00 a | - | 3,100 a | 3,100 | - | 0.00 a |
| Ethiopia PDR (2) | 150 | - | -0.33 | - | 3,900 | - | -0.13 | - | - | 4,050 | - | -0.13 | - |
| Gabon | - | - | - | - | 1,460 | 1,500 | 1.57 | 0.45 | - | 1,460 | 1,500 | 1.57 | 0.45 |
| Gambia | 5 | 5 | 2.26 | 0.00 | 43 | 45 | -0.45 | 0.76 | - | 48 | 50 | -0.21 | 0.68 |
| Ghana | 520 | 540 | 5.65 | 0.63 | 4,000 | 4,100 | 1.34 | 0.41 | - | 4,520 | 4,640 | 1.75 | 0.44 |
| Guinea | - | - | - | - | 350 | 500 | 8.84 | 6.12 | - | 350 | 500 | 8.84 | 6.12 |
| Guinea-Bissau | - | - | - | - | 19 | 19 | 1.73 | 0.00 | - | 19 | 19 | 1.73 | 0.00 |
| Kenya | 650 | 650 | 4.64 | 0.00 | 14,000 | 14,000 | 7.90 | 0.00 | 100 | 14,750 | 14,750 | 7.67 | 0.00 |
| Lesotho | 34 | 14 | 1.26 | -13.75 | 1,830 | 2,000 | 2.71 | 1.49 | - | 1,864 | 2,014 | 2.69 | 1.30 |
| Liberia | - | - | - | - | 330 | 325 | 0.96 | -0.25 | - | 330 | 325 | 0.96 | -0.25 |
| Libyan Arab Jamahiriya | 3,410 | 3,410 | 2.75 | 0.00 | 33,272 | 34,000 | 3.67 | 0.36 | - | 36,682 | 37,410 | 3.58 | 0.33 |
| Madagascar | 147 | 150 | 1.63 | 0.34 | 2,900 | 3,500 | 0.91 | 3.18 | - | 3,047 | 3,650 | 0.94 | 3.06 |
| Malawi | - | - | - | - | 1,400 | 1,420 | 1.55 | 0.24 | - | 1,400 | 1,420 | 1.55 | 0.24 |
| Mali | 48 | 50 | 0.87 | 0.68 | 2,100 | 2,515 | 8.84 | 3.05 | - | 2,148 | 2,565 | 8.57 | 3.00 |
| Mauritania | - | - | - | - | 335 | 330 | 2.18 | -0.25 | - | 335 | 330 | 2.18 | -0.25 |
| Mauritius | - | - | - | - | 355 | 370 | 0.89 | 0.69 | - | 355 | 370 | 0.89 | 0.69 |
| Morocco | 4,585 | 4,500 | 2.68 | -0.31 | 39,155 | 42,000 | 4.72 | 1.18 | - | 43,740 | 46,500 | 4.49 | 1.03 |
| Mozambique | - | - | - | - | 5,750 | 5,750 | 0.00 | 0.00 | - | 5,750 | 5,750 | 0.00 | 0.00 |
| Namibia | - | - | - | - | 3,050 | 3,150 | 1.81 | 0.54 | - | 3,050 | 3,150 | 1.81 | 0.54 |
| Niger | - | - | - | - | 176 | 180 | 6.25 | 0.38 | - | 176 | 180 | 6.25 | 0.38 |
| Nigeria | - | - | - | - | 11,500 | 11,900 | 2.95 | 0.57 | - | 11,500 | 11,900 | 2.95 | 0.57 |
| Réunion | - | - | - | - | 1,538 | 1,780 | 4.40 | 2.47 | 7 | 1,545 | 1,787 | 4.39 | 2.45 |
| Rwanda | - | - | - | - | 90 | 90 | 0.69 | 0.00 | - | 90 | 90 | 0.69 | 0.00 |
| Saint Helena | 2 | 3 | 0.00 | 6.99 | 8 | 12 | 2.92 | 6.99 | - | 10 | 15 | 2.26 | 6.99 |
| Sao Tome and Principe | - | - | - | - | 124 | 125 | 0.08 | 0.13 | - | 124 | 125 | 0.08 | 0.13 |
| Senegal | 152 | 155 | 0.83 | 0.33 | 490 | 550 | 0.63 | 1.94 | - | 642 | 705 | 0.68 | 1.57 |
| Seychelles | - | - | - | - | 40 | 40 | 1.34 | 0.00 | - | 40 | 40 | 1.34 | 0.00 |
| Sierra Leone | 6 | 6 | 19.62 | 0.00 | 530 | 550 | 5.27 | 0.62 | - | 536 | 556 | 5.36 | 0.61 |
| Somalia | - | - | - | - | 2,130 | 1,800 | 2.59 | -2.77 | - | 2,130 | 1,800 | 2.59 | -2.77 |
| South Africa | 16,000 | 12,878 | -4.09 | -3.55 | 145,000 | 130,200 | -1.73 | -1.78 | - | 161,000 | 143,078 | -2.00 | -1.95 |
| Sudan | 1,129 | 1,600 | 2.76 | 5.98 | 9,182 | 10,500 | -0.44 | 2.26 | - | 10,311 | 12,100 | -0.14 | 2.70 |
| Swaziland | - | - | - | - | 4,120 | 3,000 | 3.67 | -5.15 | - | 4,120 | 3,000 | 3.67 | -5.15 |
| Togo | - | - | - | - | 370 | 370 | 6.35 | 0.00 | - | 370 | 370 | 6.35 | 0.00 |
| Tunisia | 3,010 | 2,850 | 2.08 | -0.91 | 23,982 | 35,100 | -0.73 | 6.55 | - | 26,992 | 37,950 | -0.45 | 5.84 |
| Uganda | 15 | 15 | 4.14 | 0.00 | 4,500 | 4,700 | 5.64 | 0.73 | 15 | 4,529 | 4,730 | 5.62 | 0.73 |
| United Republic of Tanzania | - | - | - | - | 6,800 | 7,600 | -3.78 | 1.87 | - | 6,800 | 7,600 | -3.78 | 1.87 |
| Zambia | 285 | 300 | 0.36 | 0.86 | 5,900 | 6,000 | 2.43 | 0.28 | - | 6,185 | 6,300 | 2.32 | 0.31 |
| Zimbabwe | 710 | 720 | 1.00 | 0.23 | 17,000 | 25,000 | 0.17 | 6.64 | - | 17,710 | 25,720 | 0.20 | 6.42 |

- : data not available or equal to 0.

a : Data cover 1993. For the average annual growth rate, it refers to the period 1993-1996.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 9. Fertilizer Use in Agriculture

| Countries | Total fertilizer production (000 MT) | | | Total fertilizer imports (000 MT) | | | Total fertilizer exports (000 MT) | | | Total fertilizer consumption (000 MT) | | |
|--------------------------------------|---|--------------|--------------|--------------------------------------|--------------|--------------|--------------------------------------|--------------|--------------|--|--------------|--------------|
| | 1980 | 1990 | 1996 | 1980 | 1990 | 1996 | 1980 | 1990 | 1996 | 1980 | 1990 | 1996 |
| Africa | 2,353 | 4,853 | 5,203 | 1,613 | 1,619 | 1,670 | 556 | 2,695 | 2,766 | 3,242 | 3,686 | 3,686 |
| Algeria | 55 | 144 | 8 | 189 | 40 | 48 | - | 29 | 1 | 236 | 139 | 59 |
| Angola | - | - | - | 17 | 7 | 10 | - | - | - | 17 | 10 | 10 |
| Benin | - | - | - | 1 | 11 | 35 | - | - | - | 1 | 11 | 35 |
| Botswana | - | - | - | 1 | 1 | 4 | - | - | - | 1 | 1 | 3 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | - | 0.12 | 0.30 | 5 | 19 | 31 | - | - | - | 4 | 21 | 24 |
| Burundi | - | - | - | 1 | 2 | 6 | - | - | - | 1 | 2 | 6 |
| Cameroon | - | - | - | 32 | 17 | 34 | - | - | - | 32 | 17 | 34 |
| Cape Verde | - | - | - | 0.12 | - | - | - | - | - | 0.12 | - | - |
| Central African Republic | - | - | - | 1 | 1 | 1 | - | - | - | 1 | 1 | 1 |
| Chad | - | - | - | 1 | 6 | 10 | - | - | - | 1 | 6 | 10 |
| Comoros | - | - | - | - | - | 0.10 | - | - | - | - | - | 0.10 |
| Congo | - | - | - | 1 | 2 | 3 | - | - | - | 1 | 2 | 3 |
| Côte d'Ivoire | 9 | 3 | - | 45 | 35 | 78 | - | - | 5 | 53 | 36 | 70 |
| Democratic Republic of the Congo (1) | - | - | - | 8 | 6 | 10 | - | - | - | 8 | 6 | 10 |
| Djibouti | - | - | - | 1 | - | - | - | - | - | 1 | - | - |
| Egypt | 506 | 871 | 1,221 | 182 | 184 | 66 | 14 | 35 | 30 | 664 | 965 | 1,194 |
| Equatorial Guinea | - | - | - | 0.10 | - | - | - | - | - | 0.10 | - | - |
| Eritrea (2) | - | - | - | - | - | 6 | - | - | - | - | - | 5 |
| Ethiopia (2) | - | - | - | - | - | 215 | - | - | - | - | - | 154 |
| Ethiopia PDR (2) | - | - | - | 50 | 112 | - | - | - | - | 43 | 112 | - |
| Gabon | - | - | - | 0.10 | 1 | 0.40 | - | - | - | 0.10 | 1 | 0.40 |
| Gambia | - | - | - | 2 | 1 | 1 | - | - | - | 2 | 1 | 1 |
| Ghana | - | - | - | 12 | 7 | 13 | - | - | - | 12 | 13 | 13 |
| Guinea | - | - | - | 0.28 | 1 | 3 | - | - | - | 0.28 | 1 | 3 |
| Guinea-Bissau | - | - | - | 0.21 | 1 | 1 | - | - | - | 0.21 | 1 | 1 |
| Kenya | - | - | - | 62 | 116 | 120 | - | - | - | 62 | 116 | 120 |
| Lesotho | - | - | - | 5 | 5 | 7 | - | - | - | 5 | 5 | 7 |
| Liberia | - | - | - | 3 | 0.30 | - | - | - | - | 3 | 0.30 | - |
| Libyan Arab Jamahiriya | - | 89 | 399 | 53 | 68 | 56 | - | 79 | 375 | 53 | 78 | 71 |
| Madagascar | - | - | - | 9 | 11 | 13 | - | - | - | 9 | 11 | 13 |
| Malawi | - | - | - | 33 | 48 | 41 | - | - | - | 33 | 48 | 41 |
| Mali | - | - | - | 14 | 19 | 32 | - | - | - | 14 | 15 | 32 |
| Mauritania | - | - | - | 1 | 5 | 5 | - | - | - | 1 | 4 | 5 |
| Mauritius | 9 | 12 | 16 | 17 | 52 | 33 | 1 | 0.46 | 5 | 27 | 28 | 35 |
| Morocco | 213 | 1,524 | 1,268 | 133 | 172 | 226 | 78 | 1,436 | 1,079 | 207 | 326 | 298 |
| Mozambique | 7 | - | - | 20 | 3 | 12 | - | - | - | 28 | 3 | 11 |
| Namibia | - | - | - | - | - | - | - | - | - | - | - | - |
| Niger | - | - | - | 3 | 2 | 10 | - | - | - | 3 | 2 | 11 |
| Nigeria | 5 | 334 | 123 | 177 | 197 | 39 | - | 122 | 27 | 174 | 400 | 135 |
| Réunion | - | - | - | 4 | 12 | 13 | - | - | - | 4 | 12 | 13 |
| Rwanda | - | - | - | 0.10 | 1 | 0 | - | - | - | 0.10 | 3 | 0.10 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - | - |
| Senegal | 31 | 66 | 60 | 16 | 29 | 16 | 15 | 57 | 50 | 19 | 12 | 15 |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | - | - | - | 2 | 1 | 3 | - | - | - | 2 | 1 | 3 |
| Somalia | - | - | - | 2 | 3 | 1 | - | - | - | 1 | 3 | 1 |
| South Africa | 924 | 810 | 935 | 229 | 132 | 205 | 61 | 174 | 329 | 1,064 | 792 | 780 |
| Sudan | - | - | - | 81 | 89 | 97 | - | - | - | 81 | 89 | 92 |
| Swaziland | 2 | - | - | 18 | 13 | 6 | - | - | - | 20 | 13 | 6 |
| Togo | - | - | - | 3 | 12 | 22 | - | - | - | 3 | 12 | 18 |
| Tunisia | 455 | 859 | 1,040 | 30 | 28 | 4 | 386 | 759 | 862 | 62 | 83 | 86 |
| Uganda | - | - | - | 1 | 0.19 | 3 | - | - | - | 1 | 0.19 | 3 |
| United Republic of Tanzania | 16 | 5 | - | 20 | 38 | 38 | - | - | - | 36 | 51 | 38 |
| Zambia | 6 | 6 | 4 | 69 | 67 | 39 | - | - | 2 | 79 | 60 | 41 |
| Zimbabwe | 114 | 130 | 130 | 56 | 44 | 54 | - | 3 | 2 | 173 | 177 | 174 |

- : data not available or equal to 0.

(1) : Former Zaïre

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Table 10. Trends in Food Aid

| Countries | Total cereals aid (000 MT) | | | | | | Average annual rate of change (%) | | |
|--------------------------------------|-------------------------------|-------|-------|-------|-------|-------|--------------------------------------|-----------|-----------|
| | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1970-1980 | 1980-1990 | 1990-1997 |
| | 2,234 | 4,914 | 6,486 | 2,526 | 1,960 | 2,014 | 8.20 | 2.81 | -15.38 |
| Africa | | | | | | | | | |
| Algeria | 173 | 29 | 26 | 13 | 36 | 13 | -16.51 | -0.87 | -9.49 |
| Angola | | 29 | 124 | 218 | 190 | 118 | 19.09 a | 15.73 | -0.72 |
| Benin | 1 | 11 | 9 | 9 | 12 | 31 | 23.95 | -1.60 | 18.25 |
| Botswana | 10 | 11 | - | - | 1 | - | 1.68 | -6.72 e | - |
| British Indian Ocean Terri. | | | | | | | | | |
| Burkina Faso | 66 | 57 | 65 | 26 | 31 | 20 | -1.57 | 1.41 | -15.49 |
| Burundi | 2 | 15 | 3 | 5 | 4 | - | 23.81 | -13.50 | 2.09 h |
| Cameroon | 7 | 12 | 10 | 4 | - | 2 | 5.45 | -1.52 | -20.84 |
| Cape Verde | | 40 | 76 | 50 | 58 | 52 | 33.80 b | 6.74 | -5.33 |
| Central African Republic | 1 | 3 | 4 | 0.25 | 0.18 | 3 | 15.42 | 3.35 | -3.75 |
| Chad | 0.10 | 17 | 33 | 8 | 30 | 17 | 66.72 | 7.02 | -9.16 |
| Comoros | - | 2 | 5 | 0.05 | 2 | 3 | 18.72 b | 8.59 | -8.78 |
| Congo | 26 | 2 | 15 | 9 | 13 | 8 | -23.86 | 23.98 | -7.73 |
| Côte d'Ivoire | 3 | - | 59 | 30 | 46 | 26 | -3.97 c | 59.73 f | -11.06 |
| Democratic Republic of the Congo (1) | 17 | 82 | 86 | 33 | 17 | 11 | 17.24 | 0.53 | -25.36 |
| Djibouti | - | 15 | 11 | 11 | 7 | 13 | 57.45 d | -3.44 | 3.29 |
| Egypt | 522 | 1,915 | 2,003 | 190 | 145 | 52 | 13.88 | 0.45 | -40.58 |
| Equatorial Guinea | - | 2 | 4 | 1 | 0.12 | 1 | - | 5.23 | -20.68 |
| Eritrea (2) | - | - | 246 i | 65 | 9 | 59 | - | - | -30.12 i |
| Ethiopia (2) | - | - | 652 i | 525 | 297 | 652 | - | - | 0.00 i |
| Ethiopia PDR (2) | 3 | 261 | 1,103 | - | - | - | 54.34 | 15.51 | - |
| Gabon | 1 | - | - | - | - | - | - | - | - |
| Gambia | 3 | 22 | 14 | 3 | 6 | 5 | 23.69 | -4.28 | -14.26 |
| Ghana | 98 | 100 | 76 | 43 | 63 | 67 | 0.27 | -2.74 | -1.82 |
| Guinea | 25 | 46 | 12 | 8 | 6 | 2 | 6.29 | -12.44 | -22.22 |
| Guinea-Bissau | - | 36 | 9 | 2 | 6 | 3 | 22.09 b | -12.62 | -15.20 |
| Kenya | 3 | 181 | 65 | 42 | 59 | 91 | 53.49 | -9.77 | 4.86 |
| Lesotho | 27 | 45 | 36 | 47 | 15 | 7 | 5.08 | -2.16 | -20.84 |
| Liberia | 6 | 26 | 159 | 132 | 77 | 45 | 16.56 | 19.70 | -16.61 |
| Libyan Arab Jamahiriya | - | - | - | - | - | - | - | - | - |
| Madagascar | 17 | 28 | 38 | 24 | 43 | 17 | 5.22 | 3.22 | -11.06 |
| Malawi | 1 | 17 | 212 | 117 | 51 | 22 | 42.00 | 28.95 | -27.53 |
| Mali | 50 | 69 | 47 | 8 | 39 | 27 | 3.31 | -3.77 | -7.79 |
| Mauritania | 14 | 132 | 116 | 28 | 21 | 25 | 24.83 | -1.35 | -19.55 |
| Mauritius | 68 | 25 | 7 | - | - | - | -9.53 | -11.47 | - |
| Morocco | 335 | 126 | 204 | - | 4 | 10 | -9.28 | 4.93 | -35.02 |
| Mozambique | - | 188 | 523 | 266 | 89 | 109 | 33.01 b | 10.76 | -20.10 |
| Namibia | - | - | 16 | 11 | - | - | - | 178.13 g | - |
| Niger | 20 | 16 | 91 | 19 | 47 | 36 | -2.09 | 19.05 | -12.36 |
| Nigeria | 60 | - | - | - | - | 1 | - | - | - |
| Réunion | - | - | - | - | - | - | - | - | - |
| Rwanda | 9 | 20 | 15 | 258 | 263 | 127 | 8.53 | -2.83 | 35.81 |
| Saint Helena | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | 3 | 16 | 4 | 5 | 0.20 | -5.13 a | 19.91 | -46.32 |
| Senegal | 32 | 174 | 47 | 9 | 6 | 10 | 18.53 | -12.25 | -20.25 |
| Seychelles | 0.20 | 1 | 0.20 | - | - | - | 20.28 | -16.86 | - |
| Sierra Leone | 7 | 12 | 20 | 48 | 58 | 28 | 5.49 | 5.48 | 4.97 |
| Somalia | 10 | 379 | 100 | 13 | 3 | 14 | 43.40 | -12.45 | -24.49 |
| South Africa | - | - | - | - | - | 15 | - | - | - |
| Sudan | 56 | 200 | 513 | 58 | 120 | 97 | 13.62 | 9.91 | -21.22 |
| Swaziland | 1 | 1 | 4 | 12 | - | - | -3.30 | 15.17 | - |
| Togo | 5 | 4 | 16 | 4 | 5 | 4 | -2.08 | 13.96 | -18.87 |
| Tunisia | 435 | 109 | 371 | 18 | 4 | 12 | -12.92 | 13.04 | -39.00 |
| Uganda | 114 | 67 | 74 | 44 | 40 | 84 | -5.22 | 1.10 | 1.73 |
| United Republic of Tanzania | 9 | 276 | 34 | 35 | 20 | 70 | 41.15 | -19.01 | 11.19 |
| Zambia | 0.20 | 91 | 4 | 73 | 8 | 8 | 84.50 | -26.51 | 9.00 |
| Zimbabwe | - | 18 | 8 | 3 | 1 | - | - | -7.53 | -25.81 h |

- : data not available or equal to 0.

a : Data cover the period 1975-1980

d : Data cover the period 1977-1980

h : Data cover the period 1990-1996

b : Data cover the period 1974-1980

e : Data cover the period 1980-1989

i : Data cover 1993. For average annual rate of change, it covers the period 1993-1997

c : Data cover the period 1970-1979

f : Data cover the period 1981-1990

(1) : Former Zaïre

g : Data cover the period 1988-1990

(2) : From 1993 onwards, the figures for Eritrea and Ethiopia, formerly Ethiopia PDR, are shown separately.

Technical Notes

Table 1. Labour Force in Agriculture

Rural population is the total population living in rural areas.

Source: *World Urbanization Prospects, The 1996 Revision, New York, UN, 1998.*

Labour force in agriculture is the number people working in agriculture, hunting, forestry and fishing.

Source: IBRD, 'African Development Indicators 1997' (on diskettes), Washington, World Bank, 1997.

The **percentage of the labour force in agriculture** is the ratio of the agricultural labour force to total labour force. For a description of *Labour force*, see the technical notes on the *economically active population*.

Source: IBRD, *African Development Indicators 1997* (on diskettes), Washington, World Bank, 1997.

The **economically active population** comprises all persons of either sex who furnish the supply of labour for the production of goods and services during a specified time-reference period. According to the 1993 version of the System of National Accounts, production includes all individual or collective goods or services that are (intended to be) supplied to units other than their producers, including the production of goods or services used up in the process of producing such goods or services; the production of all goods that are retained by their producers for their own final use; the production of housing services by owner-occupiers and of domestic and personal services produced by employing paid domestic staff. Two useful measures of the economically active population are the usually active population measured in relation to a long reference period such as a year, and the currently active population, or, equivalently, the labour force measured in relation to a short reference period such as one day or one week.

Source: *FAO Website: <http://www.fao.org> and the 'ILO Yearbook of Labour Statistics 1997', ILO, 1997.*

Table 2: Agricultural Land Use

Total land area comprises all total area excluding area under inland water-bodies. The definition of inland bodies generally includes major rivers and lakes. Land area data are provided to the FAO by national governments in response to annual questionnaires. The FAO also compiles data from national agricultural censuses.

Sources: *FAO Website: <http://www.fao.org> and the 'FAO Production Yearbook 1997', FAO, 1998*

Cropland refers to the sum of *arable land* and *land under permanent crops*. *Arable land* is land under temporary crops (double-cropped areas are counted only once), temporary meadows for mowing or pasture, land under market and kitchen gardens and land under temporarily fallow (less than five years). The abandoned land resulting from shifting cultivation is not included in this category. Data for *Arable land* are not meant to indicate the amount of land that is potentially cultivable. *Land under permanent crops* is land cultivated with crops that occupy the land for long periods and need not to be replanted after each harvest, such as cocoa, coffee and rubber; this category includes land under flowering shrubs, fruit trees, nut trees and vines, but excludes land under trees grown for wood or timber. To calculate the *per capita cropland*, population estimates of UN have been used.

Source: *FAO Website: <http://www.fao.org>; the 'FAO Production Yearbook 1997', FAO, 1998; DESA, '1996 Demographic Yearbook', UN, 1998 and UNPD, 'World Population Prospects: the 1996 Revision', New York, UN, 1997.*

Irrigated land, as a percentage of cropland is the ratio of *irrigated land* to *cropland*. *Irrigated land* relates to areas equipped to provide water to the crops. These include areas equipped for full and partial control irrigation, spate irrigation areas, and equipped wetland or inland valley bottoms. See the technical notes on *cropland* for further specifications on this indicator.

Sources: *FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998*

Land use as a percentage of total land area is given as the share of *cropland*, *permanent pasture*, and *forest and woods* in total land areas. The sum can not be 100 as it excludes other land comprising uncultivated land, grassland not used for pasture, built-up areas, wetlands, wastelands and roads. Land use data are compiled by the FAO from national questionnaires and national agricultural censuses. The FAO often adjusts the definitions of land use categories and sometimes substantially revises earlier data.

Cropland: see technical notes on *cropland*.

Permanent pasture is land used for five or more years for forage, including natural crops and cultivated crops. This category is difficult for countries to assess because it includes wildland used for pasture. This means that shrub land and savannas can be reported either under this category or under *forest and woodland*. In addition, few countries regularly report data on permanent pasture. As a result, the absence of a change in permanent pasture area (e.g., 0 percent change for many African and Asian countries) may indicate differences in land classification and data reporting rather than actual conditions. Grassland not used for forage is included under *other land*.

Forest and Woods include land under natural or planted stands of trees, as well as logged-over areas that will be reforested in the near future. Forest and Woodland areas used exclusively for recreational purposes are excluded (these areas are reported under other land).

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Table 3. Food Production and Change

Cereals (total) relate to all crops harvested for dry grain and the other cereals, such as mixed grains and buckwheat. Cereal crops harvested for hay or harvested green for food, feed or silage or used for grazing are therefore excluded.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Roots and tubers (total) cover all root crops grown principally for human consumption, such as cassava, yucca, taro and yams. Root crops grown principally for feed such as turnips, mangles and swedes are not included.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Pulses (total) include pulses harvested for dry harvest only, such as lentils, pigeons peas, cowpeas, and vetches, and does not exclude those used for feed.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Vegetables and melons (total) relate to vegetable crops grown mainly for human consumption. Crops such as cabbages, pumpkins and carrots, when explicitly cultivated for animal feed, are therefore excluded.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Meat (total) refers to animals slaughtered, the average dressed carcass weight and the corresponding production of meat. It relates to animals slaughtered within national boundaries, irrespective of their origin. Production figures include beef and buffalo meat, mutton and goat meat, pig meat and poultry meat

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Milk (total) relates to total production of whole fresh milk including cow milk, buffalo milk, sheep milk, goat milk, and camel milk.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Table 4. Agricultural and Food Production Indices (1989-1991=100)

The **agricultural production index** gives the relative level of the aggregate volume of total agricultural production for each year in comparison with the base period 1989-1991 (=100). They are based on the sum of price-weighted quantities of different agricultural commodities produced after deductions of quantities used as seed and feed weighted in a similar manner. The resulting aggregate represents disposable production for any use except as seed and feed. All the indices at the country, regional and world levels are calculated by the Laspeyres formula. Production quantities of each commodity are weighted by the 1989-1991 average international commodity prices and summed for each year. To obtain the index, the aggregate for a given year is divided by the average aggregate for the base period 1989-1991.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

The **food production index** gives the relative level of the aggregate volume of total food production, after deduction of seed and feed, for each year in comparison with the base period 1989-1991. Food comprises cereals, nuts, pulses, fruits, vegetables, sugar cane, sugar beets, starchy roots, edible oils, livestock and livestock products. See the agricultural production index for technical details on the computation of the index.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Total Cereals Production Index See the *agricultural production index* and *cereals (table 3)* for technical notes on the *total cereals production index*.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

The **crops production index** indicates the relative level of the aggregate volume of total crops production, after deduction for seed and feed, for each year in comparison with the base period 1989-1991. Crops include cereals, roots and tubers, pulses, oilseeds, oil nuts and oil kernels, vegetables and melons, grapes and wine, fruits and berries, and other produce of cultivated plants, which are mainly intended for human consumption. For more detailed description of index, please refer to *Agricultural production index*.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Livestock production index: see the *agricultural production index* for technical details on the computation of the indicator and to *livestock* for a definition.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Non-food production index. Products are considered non-food if they are not nutritious. These include coffee, rubber, cotton lint and tobacco leaves. See the *agricultural production index* for technical details on the computation of the indicator.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Table 5. Daily per Capita Calorie, Protein and Fat Supply

Daily per capita supply of calories are calories equivalent to the net food supplies in a country, divided by the population, per day. Figures are from FAO food balance sheets and arrived at from all food sources: domestic production, international trade, stock drawdowns and foreign aid. The quantity of food available for human consumption, as estimated by the FAO, is the amount that reaches the consumer. In almost all cases, the population figures used are the mid-year estimates published by the UN Population Division. The calories actually consumed may be lower than the figures shown, depending on how much food is lost during home storage, preparation, and cooking, and on how much is fed to pets and domestic animals or discarded. *Daily per capita supply of protein and fat* are also calculated by dividing the quantities of protein and fat by the population, per day.

Source: FAO Website: <http://www.fao.org>

Table 6. Performance of the Agricultural Sector: Agricultural GDP

The **agricultural GDP** measures the output of the agricultural sector minus the value of the intermediate inputs. Agriculture comprises value added from forestry, hunting and fishing as well as cultivation of crops and livestock production. Data are expressed in constant 1987 US \$. See also the technical notes for the GDP.

Source: African Development Indicators 1997 (on diskettes), Washington, World Bank, 1997.

GDP (Gross Domestic Product) is the total output of goods and services for final use produced within the domestic territory of a given country, by both residents and non-residents, regardless of the allocation to domestic and foreign claims. It includes deductions of the value of the intermediate inputs but excludes deductions for depreciation of physical capital or depletion and degradation of natural resources. GDP at purchaser values (market prices) is the sum of GDP at factor cost and indirect taxes less subsidies. Data are expressed in constant 1987 US \$ and calculated by converting domestic currencies using 1987 official exchange rate.

Source: IBRD, 'African Development Indicators 1997' (on diskettes), Washington, World Bank, 1997

The **agricultural share in the GDP** is the ratio of Agricultural GDP to total GDP, which includes industry, agriculture and service sectors. See also the technical notes for the *agricultural GDP* and *GDP*.

Source: IBRD, 'African Development Indicators 1997' (on diskettes), Washington, World Bank, 1997.

Table 7. Performance of the Agricultural Sector: Crop Yields and Change

Crop yields (average yield of cereals and roots and tubers per unit area) are calculated from production and area data. *Area* refers to the area harvested. *Cereals* include wheat, rice corn, barley, sorghum, millet, rye, oats, and other grains such as mixed grains and buckwheat. *Roots and tubers* include all root crops grown principally for human consumption, including yautia and arrowroot. Root crops grown principally for feed, such as turnips, mangels, and swedes, are excluded.

Source: FAO Website: <http://www.fao.org>

Table 8. Machinery use in Agriculture

Harvester-threshers refer to self-propelled machines that reap and thresh in one operation.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Tractors refer to the total wheel and crawler tractors (excluding garden tractors) used in agriculture.

Sources: FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998

Milking machines refer to the number of installations consisting of several units, each composed of a pail, a pulsator and four-teat cups and liners.

Sources: *FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998*

Total agricultural machinery includes harvester-threshers, tractors and milking machines.

Sources: *FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998*

Table 9. Fertilizer use in Agriculture

Total fertilizer refers to the nutrients in terms of nitrogen (N), phosphate (P₂O₅), and potash (K₂O). In this table figures are given for the total fertilizer production, the total fertilizer imports, the total fertilizer export and the fertilizer consumption.

Sources: *FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998.*

Table 10. Trends in Food aid

Cereals aid (total) are cereals provided by donor countries and international organizations, including the World Food Programme and the International Wheat Council, as reported for that particular crop year. Cereals include wheat, flour, bulgur, rice, coarse grain and the cereal components of blended foods.

Sources: *FAO Website: <http://www.fao.org> and 'FAO Production Yearbook 1997', FAO, 1998.*

Chapter 10

Chapter 10: The History of the United States
The history of the United States is a complex and multifaceted one, shaped by a variety of factors including geography, culture, and politics. This chapter explores the key events and figures that have shaped the nation's development from its founding to the present day.

The early years of the United States were marked by a period of exploration and settlement. The first European settlers arrived in the late 15th century, and the country's borders expanded westward over the centuries. The American Revolution (1775-1783) was a pivotal moment in the nation's history, leading to the establishment of the United States as an independent country.

The 19th century was a period of rapid growth and change for the United States. The Industrial Revolution brought about significant technological advancements, and the country's population increased dramatically. The Civil War (1861-1865) was a major conflict that shaped the nation's identity and led to the abolition of slavery.

The 20th century saw the United States emerge as a global superpower. The country played a leading role in World War II (1939-1945) and the subsequent Cold War (1945-1991). The civil rights movement of the 1950s and 1960s led to significant social and political changes, including the passage of the Civil Rights Act of 1964.

IV. ENVIRONMENTAL INDICATORS

Table 1. Urbanization Profile

| Countries | Urban population | | Average annual | | Name of capital cities | Population | | Number of cities | Population in cities with | | | | |
|--------------------------------------|--------------------------|------|----------------|----------------------|---------------------------|-------------------|-------|---------------------|---|------------------|------------------|------|-------|
| | as % of total population | | | change rate of urban | | of capital cities | | | more than 750,000 inhabitants in 1995 (2) | | | | |
| | (%) | | | population (%) | | (in 000) | | | As % of | | As % of | | |
| | 1980 | 1990 | 1996 | 1980-1985 | | 1990-1995 | 1990 | | 1995 | total population | urban population | 1985 | 1995 |
| Africa | 27.3 | 32.1 | 35.5 | 4.42 | 4.37 | - | - | - | - | - | - | - | - |
| Algeria | 43.4 | 51.7 | 56.4 | 4.94 | 3.86 | Algiers | 3,033 | 3705 | 1 | 11.3 | 13.2 | 23.7 | 23.7 |
| Angola | 20.9 | 27.6 | 31.6 | 5.55 | 5.48 | Luanda | 1,606 | 2081 | 1 | 15.3 | 19.2 | 63.4 | 62.2 |
| Benin | 27.3 | 34.5 | 39.2 | 5.41 | 5.02 | Cotonou | | 194 | | | | | |
| Botswana | 15.1 | 41.5 | 63.1 | 13.69 | 9.97 | Gaborone | | 182 | | | | | |
| British Indian Ocean Terri. | - | - | - | - | - | | - | - | - | - | - | - | - |
| Burkina Faso | 8.5 | 13.6 | 16.4 | 8.58 | 6.02 | Ouagadougou | 423 | 824 | 1 | 5.4 | 7.9 | 47.1 | 49.5 |
| Burundi | 4.3 | 6.3 | 7.8 | 6.49 | 5.62 | Bujumbura | | 278 | | | | | |
| Cameroon | 31.4 | 40.3 | 45.6 | 5.42 | 4.87 | Yaoundé | 823 | 1119 | 2 | 13.0 | 18.5 | 36.3 | 41.3 |
| Cape Verde | 23.5 | 44.2 | 56.1 | 8.15 | 6.62 | Praia | | 68 | | | | | |
| Central African Republic | 35.1 | 37.5 | 39.5 | 2.98 | 3.08 | Bangui | | 553 | | | | | |
| Chad | 18.8 | 21.1 | 22.5 | 3.42 | 3.73 | Ndjamena | 613 | 826 | 1 | 9.1 | 13.0 | 45.5 | 58.6 |
| Comoros | 23.2 | 27.9 | 31.0 | 5.03 | 4.91 | Moroni | | 36 | | | | | |
| Congo | 41.0 | 53.4 | 59.3 | 5.77 | 4.80 | Brazzaville | 792 | 1004 | 1 | 31.7 | 38.7 | 66.7 | 66.3 |
| Côte d'Ivoire | 34.8 | 40.4 | 44.0 | 5.30 | 4.61 | Abidjan | | 2793 | 1 | 16.8 | 20.4 | 44.8 | 47.0 |
| Democratic Republic of the Congo (1) | 28.7 | 27.9 | 29.0 | 2.65 | 4.44 | Kinshasa | 3,445 | 4241 | 2 | 10.6 | 11.1 | 37.8 | 38.7 |
| Djibouti | 73.6 | 80.2 | 82.4 | 7.61 | 3.47 | Djibouti | | 493 | | | | | |
| Egypt | 43.8 | 43.9 | 44.8 | 2.59 | 2.27 | Cairo | 8,633 | 9690 | 3 | 22.5 | 23.3 | 51.3 | 52.3 |
| Equatorial Guinea | 27.4 | 35.7 | 43.4 | 8.90 | 5.86 | Malabo | | 30 | | | | | |
| Eritrea | 13.5 | 15.8 | 17.4 | 4.30 | 3.50 | Asmara | | 431 | | | | | |
| Ethiopia | 10.5 | 13.4 | 15.8 | 4.62 | 5.92 | Addis Ababa | 1,912 | 2431 | 1 | 3.7 | 4.3 | 31.3 | 28.0 |
| Gabon | 34.0 | 44.6 | 51.2 | 5.81 | 5.15 | Libreville | | 419 | | | | | |
| Gambia | 19.6 | 25.7 | 29.7 | 5.80 | 6.20 | Banjul | | 186 | | | | | |
| Ghana | 31.2 | 33.9 | 36.3 | 4.16 | 4.03 | Accra | 1,403 | 1673 | 1 | 9.2 | 9.7 | 28.6 | 26.9 |
| Guinea | 19.1 | 25.7 | 29.9 | 5.30 | 7.47 | Conakry | 1,123 | 1558 | 1 | 16.6 | 21.2 | 74.3 | 72.6 |
| Guinea-Bissau | 16.9 | 20.0 | 22.1 | 3.56 | 3.69 | Bissau | | 233 | | | | | |
| Kenya | 16.1 | 24.1 | 29.5 | 7.70 | 6.35 | Nairobi | 1,403 | 1810 | 1 | 5.5 | 6.7 | 28.0 | 23.3 |
| Lesotho | 13.4 | 20.1 | 24.8 | 6.81 | 6.09 | Maseru | | 297 | | | | | |
| Liberia | 35.0 | 42.1 | 45.7 | 5.49 | -2.55 | Monrovia | 670 | 962 | 1 | 21.2 | 45.3 | 54.0 | 100.8 |
| Libyan Arab Jamahiriya | 69.3 | 81.8 | 85.9 | 6.38 | 4.31 | Tripoli | 1,344 | 1682 | 2 | 40.9 | 46.0 | 53.4 | 53.9 |
| Madagascar | 18.3 | 23.5 | 27.0 | 5.77 | 5.60 | Antananarivo | 686 | 876 | 1 | 5.2 | 5.9 | 25.1 | 22.3 |
| Malawi | 9.1 | 11.8 | 13.8 | 5.76 | 3.33 | Lilongwe | | 437 | | | | | |
| Mali | 18.5 | 23.8 | 27.5 | 5.44 | 5.57 | Bamako | 738 | 919 | 1 | 7.6 | 8.5 | 36.0 | 31.7 |
| Mauritania | 27.4 | 43.5 | 52.6 | 7.51 | 5.83 | Nouakchott | | 694 | | | | | |
| Mauritius | 42.4 | 40.5 | 40.6 | 0.53 | 1.10 | Port Louis | | 165 | | | | | |
| Morocco | 41.1 | 48.2 | 52.6 | 3.85 | 3.41 | Rabat | 1,118 | 1293 | 2 | 15.5 | 16.6 | 34.7 | 32.0 |
| Mozambique | 13.1 | 26.6 | 35.2 | 10.14 | 8.72 | Maputo | 1,515 | 2212 | 1 | 7.9 | 12.8 | 40.5 | 37.9 |
| Namibia | 22.8 | 31.0 | 37.0 | 5.73 | 5.52 | Windhoek | | 190 | | | | | |
| Niger | 12.6 | 16.1 | 18.6 | 5.84 | 5.82 | Niamey | | 587 | | | | | |
| Nigeria | 26.9 | 35.0 | 40.4 | 5.54 | 5.44 | Abuja | | 385 | 2 | 8.4 | 10.5 | 27.2 | 26.6 |
| Réunion | 54.7 | 63.9 | 68.4 | 3.53 | 2.77 | Saint-Denis | | 133 | | | | | |
| Rwanda | 4.7 | 5.3 | 5.8 | 4.41 | -4.65 | Kigali | | 286 | | | | | |
| Saint Helena | 27.0 | 51.7 | 66.7 | 8.00 | 4.68 | Jamestown | | 3 | | | | | |
| Sao Tome and Principe | 30.7 | 38.9 | 43.7 | 4.88 | 4.16 | Sao Tome | | 57 | | | | | |
| Senegal | 35.9 | 40.4 | 44.3 | 3.87 | 4.10 | Dakar | 1,401 | 1708 | 1 | 18.0 | 20.6 | 47.7 | 47.1 |
| Seychelles | 40.0 | 49.8 | 55.4 | 2.92 | 2.87 | Victoria | | 40 | | | | | |
| Sierra Leone | 24.1 | 30.0 | 34.0 | 4.30 | 3.03 | Freetown | | 699 | | | | | |
| Somalia | 22.2 | 24.2 | 26.0 | 4.06 | 3.06 | Mogadishu | 779 | 997 | 1 | 7.0 | 10.5 | 30.0 | 41.0 |
| South Africa | 48.1 | 48.8 | 49.5 | 2.57 | 2.45 | Pretoria | 1,047 | 1314 | 8 | 25.2 | 29.6 | 52.0 | 60.0 |
| Sudan | 20.0 | 26.6 | 32.3 | 5.06 | 5.36 | Khartoum | 1,828 | 2249 | 1 | 6.9 | 8.4 | 30.9 | 26.9 |
| Swaziland | 17.8 | 26.4 | 32.0 | 6.95 | 6.10 | Mbabane | | 61 | | | | | |
| Togo | 22.9 | 28.5 | 31.2 | 5.86 | 4.48 | Lome | | 662 | | | | | |
| Tunisia | 51.5 | 57.9 | 62.7 | 3.45 | 3.26 | Tunis | 1,568 | 1722 | 1 | 19.5 | 19.2 | 36.2 | 30.9 |
| Uganda | 8.8 | 11.2 | 12.8 | 4.75 | 5.68 | Kampala | 754 | 954 | 1 | 4.0 | 4.9 | 40.8 | 38.6 |
| United Republic of Tanzania | 14.8 | 20.8 | 24.9 | 6.71 | 6.34 | Dar Es Salaam | 1,436 | 1747 | 2 | 6.0 | 9.0 | 34.2 | 37.2 |
| Zambia | 39.8 | 42.0 | 43.3 | 2.77 | 2.74 | Lusaka | 974 | 1317 | 1 | 11.2 | 16.3 | 27.5 | 37.9 |
| Zimbabwe | 22.3 | 28.4 | 32.5 | 5.75 | 4.80 | Harare | 1,048 | 1410 | 1 | 9.3 | 12.6 | 36.8 | 39.7 |

- : data not available

(1): former Zaïre

(2) Blank spaces indicate that there are no cities that fall under the category described by the indicator.

Table 2. The Urban Environment, 1993

| Countries | City Name | Crowding (floor area/ person) (m2) | Percentage of Urban | | | Per capita Water Use (l/day) | Percent of Waste water Treated (%) | Per capita Solid Waste Generation (kg/day) | Households with garbage collection (%) | Transportation | |
|--------------------------------------|---------------|---|-------------------------|----------|-------------|---------------------------------------|---|--|---|----------------------------------|--|
| | | | Households Connected to | | | | | | | Cars per 1,000 inhabitants | Percent of Work trips by public transport |
| | | | Water | Sewerage | Electricity | | | | | | |
| Africa | | | | | | | | | | | |
| Algeria | - | - | - | - | - | - | - | - | - | - | - |
| Angola | Luanda | - | 41 | 13 | 10 | 50 | 0 | - | 50 | 16 | 3 |
| Benin | Porto Novo | 5 | 16 | 1 | 43 | 22 | - | 0.5 | 25 | 60 | 0 |
| Botswana | Gaborone | 13 | 40 | 33 | 24 | 125 | 95 | - | 98 | 33 | 42 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | Ouagadougou | 12 | 32 | 0 | 35 | 26 | 0 | 0.7 | 40 | 37 | - |
| Burundi | Bujumbura | 6 | 35 | 29 | 30 | 75 | 4 | 1.4 | 41 | 11 | - |
| Cameroon | Douala | 10 | 19 | 3 | 42 | 33 | 5 | 0.7 | 60 | 29 | 11 |
| | Yaoundé | 13 | 22 | 3 | 47 | 61 | 20 | 0.8 | 44 | 17 | 6 |
| Cape Verde | - | - | - | - | - | - | - | - | - | - | - |
| Central African Republic | Bangui | 11 | 13 | 1 | 12 | 30 | 0 | - | 25 | - | 7 |
| Chad | - | - | - | - | - | - | - | - | - | - | - |
| Comoros | - | - | - | - | - | - | - | - | - | - | - |
| Congo | Brazzaville | 14 | 63 | 0 | 45 | 50 | 0 | 0.6 | 72 | 16 | 22 |
| Côte d'Ivoire | Abidjan | 7 | 62 | 45 | 64 | 111 | 58 | 1.0 | 70 | 38 | 49 |
| Democratic Republic of the Congo (1) | Kinshasa | - | 50 | 3 | 40 | 45 | 3 | 1.2 | 0 | 25 | 61 |
| Djibouti | - | - | - | - | - | - | - | - | - | - | - |
| Egypt | Cairo | 12 | 89 | 91 | 99 | - | 98 | 0.5 | 65 | 59 | 58 |
| Equatorial Guinea | - | - | - | - | - | - | - | - | - | - | - |
| Eritrea | - | - | - | - | - | - | - | - | - | - | - |
| Ethiopia | Addis Ababa | - | 58 | 0 | 96 | 27 | - | - | 2 | 21 | - |
| Gabon | Libreville | 12 | 40 | 0 | 66 | 100 | 0 | - | 40 | 34 | 38 |
| Gambia | Banjul | 12 | 36 | 13 | 56 | 106 | 0 | 0.3 | 35 | 10 | 60 |
| Ghana | Accra | 6 | 46 | 12 | 17 | 4 | 0 | 0.4 | 60 | - | 47 |
| Guinea | Conakry | 7 | 48 | 17 | 51 | 50 | 0 | 0.7 | 50 | 24 | 26 |
| Guinea-Bissau | - | - | - | - | - | - | - | - | - | - | - |
| Kenya | Nairobi | 11 | 78 | 35 | 40 | 116 | 90 | - | 47 | 134 | 68 |
| Lesotho | Maseru | - | 30 | 5 | 3 | - | 0 | - | 7 | 18 | - |
| Liberia | Monrovia | 14 | 1 | 1 | 22 | 23 | 0 | - | - | 8 | 75 |
| Libyan Arab Jamahiriya | - | - | - | - | - | - | - | - | - | - | - |
| Madagascar | Antananarivo | 6 | 31 | 17 | 60 | 40 | 0 | 0.3 | - | 127 | 30 |
| Malawi | Lilongwe | 7 | 17 | 12 | 10 | 105 | 30 | - | - | 11 | 5 |
| Mali | Bamako | 3 | 26 | 2 | 30 | 50 | 0 | - | 95 | 70 | 12 |
| Mauritania | Nouakchott | 10 | 18 | 4 | 22 | 35 | 10 | 0.9 | 15 | 81 | 45 |
| Mauritius | - | - | - | - | - | - | - | - | - | - | - |
| Morocco | Rabat | 10 | 87 | 95 | 93 | 48 | 0 | 0.6 | 90 | 78 | - |
| Mozambique | Maputo | 12 | 28 | 23 | 46 | 80 | - | - | 37 | - | 13 |
| Namibia | Windhoek | - | 90 | 75 | 84 | 150 | 99 | 0.7 | 93 | - | 9 |
| Niger | Niamey | 8 | 30 | 0 | 42 | 75 | 0 | 1.0 | 25 | 40 | 17 |
| Nigeria | Ibadan | 9 | 68 | 0 | 73 | 80 | - | 1.1 | 40 | 4 | 40 |
| | Lagos | 6 | 65 | 2 | 100 | 70 | 2 | 0.3 | 8 | 4 | 54 |
| Réunion | - | - | - | - | - | - | - | - | - | - | - |
| Rwanda | Kigali | - | 36 | - | 57 | 130 | 20 | 0.6 | - | 27 | 32 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - |
| Senegal | Dakar | 8 | 41 | 25 | 64 | 69 | 4 | 0.7 | 75 | 36 | 53 |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | - | - | - | - | - | - | - | - | - | - | - |
| Somalia | - | - | - | - | - | - | - | - | - | - | - |
| South Africa | - | - | - | - | - | - | - | - | - | - | - |
| Sudan | Khartoum | 22 | 52 | 3 | 45 | 50 | 45 | - | 12 | 40 | 63 |
| Swaziland | - | - | - | - | - | - | - | - | - | - | - |
| Togo | Lome | 12 | 43 | 0 | 28 | 35 | - | 1.9 | 37 | - | 30 |
| Tunisia | Tunis | 12 | 92 | 73 | 94 | 70 | 82 | 0.5 | 61 | 38 | - |
| Uganda | Kampala | 4 | 30 | 9 | 42 | 25 | 27 | 6.0 | 20 | 53 | 45 |
| United Republic of Tanzania | Dar es Salaam | 5 | 22 | 6 | 37 | 50 | 2 | 1.0 | 25 | 20 | 48 |
| Zambia | Lusaka | 7 | 36 | 36 | 27 | 175 | 36 | - | - | - | 65 |
| Zimbabwe | Harare | 8 | 89 | 93 | 64 | 80 | 93 | 0.7 | 100 | - | 48 |

- : data not available

(1): former Zaïre

Table 3. Air Pollution in Cities, 1990-'95

| Countries | City Name | City population (thousands) 1995 | Total suspended particulates (microgram per m ³) | | Black smoke (microgram per m ³) | | PM-10 (microgram per m ³) | | Sulfur dioxide (microgram per m ³) | | Nitrogen dioxide (microgram per m ³) | |
|----------------------------------|---------------|----------------------------------|--|----------|---|----------|---------------------------------------|----------|--|----------|--|------|
| | | | Year of data | 1990-'95 | Year of data | 1990-'95 | Year of data | 1990-'95 | Year of data | 1990-'95 | Year of data | 1995 |
| | | | | | | | | | | | | |
| Africa | | | | | | | | | | | | |
| Algeria | | | | | | | | | | | | |
| Angola | | | | | | | | | | | | |
| Benin | | | | | | | | | | | | |
| Botswana | | | | | | | | | | | | |
| British Indian Ocean Terri. | | | | | | | | | | | | |
| Burkina Faso | | | | | | | | | | | | |
| Burundi | | | | | | | | | | | | |
| Cameroon | | | | | | | | | | | | |
| Cape Verde | | | | | | | | | | | | |
| Central African Republic | | | | | | | | | | | | |
| Chad | | | | | | | | | | | | |
| Comoros | | | | | | | | | | | | |
| Congo | | | | | | | | | | | | |
| Côte d'Ivoire | | | | | | | | | | | | |
| Democratic Republic of the Congo | | | | | | | | | | | | |
| Djibouti | | | | | | | | | | | | |
| Egypt | Cairo | 9,690 | - | - | 1993 | 82 a | - | - | 1993 | 69 a | - | - |
| Equatorial Guinea | | | | | | | | | | | | |
| Eritrea | | | | | | | | | | | | |
| Ethiopia | | | | | | | | | | | | |
| Gabon | | | | | | | | | | | | |
| Gambia | | | | | | | | | | | | |
| Ghana | Accra | 1,673 | 1990 | 137 a | - | - | - | - | - | - | - | - |
| Guinea | | | | | | | | | | | | |
| Guinea-Bissau | | | | | | | | | | | | |
| Kenya | Nairobi | 1,810 | 1995 | 69 | - | - | - | - | - | - | - | - |
| Lesotho | | | | | | | | | | | | |
| Liberia | | | | | | | | | | | | |
| Libyan Arab Jamahiriya | | | | | | | | | | | | |
| Madagascar | | | | | | | | | | | | |
| Malawi | | | | | | | | | | | | |
| Mali | | | | | | | | | | | | |
| Mauritania | | | | | | | | | | | | |
| Mauritius | | | | | | | | | | | | |
| Morocco | | | | | | | | | | | | |
| Mozambique | | | | | | | | | | | | |
| Namibia | | | | | | | | | | | | |
| Niger | | | | | | | | | | | | |
| Nigeria | | | | | | | | | | | | |
| Réunion | | | | | | | | | | | | |
| Rwanda | | | | | | | | | | | | |
| Saint Helena | | | | | | | | | | | | |
| Sao Tome and Principe | | | | | | | | | | | | |
| Senegal | | | | | | | | | | | | |
| Seychelles | | | | | | | | | | | | |
| Sierra Leone | | | | | | | | | | | | |
| Somalia | | | | | | | | | | | | |
| South Africa | Capetown | 2,671 | - | - | - | - | 1995 | 27 | 1994 | 21 | 1995 | 72 a |
| | Durban | 1,149 | - | - | - | - | - | - | 1995 | 31 | - | - |
| | Johannesbourg | 1,849 | - | - | 1995 | 61 a | - | - | 1995 | 19 | 1995 | 31 |
| Sudan | | | | | | | | | | | | |
| Swaziland | | | | | | | | | | | | |
| Togo | | | | | | | | | | | | |
| Tunisia | | | | | | | | | | | | |
| Uganda | | | | | | | | | | | | |
| United Republic of Tanzania | | | | | | | | | | | | |
| Zambia | | | | | | | | | | | | |
| Zimbabwe | | | | | | | | | | | | |

- : data not available.

(1) : former Zaïre

City name and population are given only when TSP and other relevant data are available.

a : level exceeds World Health Organization (WHO) guidelines.

Table 4. CO2 Emissions

| Countries | Carbon dioxide emissions (000 MT) | | | | | Total Carbon dioxide emissions (million MT) | | | Per capita carbon dioxide emissions (MT) | Bunker fuels (000MT) |
|--------------------------------------|--------------------------------------|----------------|---------------|----------------|-----------------------|---|--------------|-------|---|----------------------------|
| | 1993 | | | | | | | | 1993 | 1993 |
| | Solid | Liquid | Gas | Gas flaring | Cement manufacture | 1980 | 1993 | 1995 | | |
| Africa | 271,744 | 274,430 | 77,054 | 65,659 | 26,905 | - | 715.8 | - | - | 0 |
| Algeria | 3,558 | 26,165 | 38,772 | 7,694 | 2,982 | 66.2 | 79.2 | 91.3 | 3.0 | 0 |
| Angola | 0 | 1,249 | 319 | 2,459 | 498 | 5.3 | 4.5 | 4.6 | 0.4 | 0 |
| Benin | 0 | 425 | 0 | 0 | 183 | 0.5 | 0.6 | 0.6 | 0.1 | 0 |
| Botswana | 2,173 | 0 | 0 | 0 | 0 | 1.0 | 2.2 | 2.2 | 1.6 | 0 |
| British Indian Ocean Terri. | - | - | - | - | - | - | 0.0 | - | - | - |
| Burkina Faso | 0 | 557 | 0 | 0 | 0 | 0.4 | 0.6 | 1.0 | 0.1 | 0 |
| Burundi | 15 | 180 | 0 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.0 | 0 |
| Cameroon | 4 | 1,920 | 0 | 0 | 308 | 3.9 | 2.2 | 4.1 | 0.2 | 0 |
| Cape Verde | - | - | - | - | - | - | 0.0 | - | - | - |
| Central African Republic | 0 | 216 | 0 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.1 | 0 |
| Chad | 0 | 253 | 0 | 0 | 0 | 0.2 | 0.3 | 0.1 | 0.0 | 0 |
| Comoros | - | - | - | - | - | - | 0.0 | - | - | - |
| Congo | 0 | 3,748 | 7 | 169 | 51 | 0.4 | 4.0 | 1.3 | 1.7 | 0 |
| Côte d'Ivoire | 0 | 6,060 | 0 | 0 | 249 | 4.7 | 6.3 | 10.4 | 0.5 | 0 |
| Democratic Republic of the Congo (1) | 931 | 3,151 | 0 | 0 | 99 | 3.5 | 4.2 | 2.1 | 0.1 | 0 |
| Djibouti | - | - | - | - | - | - | 0.0 | - | - | - |
| Egypt | 2,524 | 57,353 | 16,118 | 0 | 8,002 | 45.2 | 84.0 | 91.7 | 1.5 | 0 |
| Equatorial Guinea | 0 | 117 | 0 | 0 | 0 | - | 0.1 | - | 0.3 | 0 |
| Eritrea | - | - | - | - | - | - | 0.0 | - | - | - |
| Ethiopia | 0 | 2,744 | 0 | 0 | 161 | 1.8 | 2.9 | 3.5 | 0.0 | 0 |
| Gabon | 0 | 2,154 | 99 | 3,261 | 59 | 4.8 | 5.6 | 3.5 | 4.5 | 0 |
| Gambia | 0 | 198 | 0 | 0 | 0 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| Ghana | 7 | 3,265 | 0 | 0 | 509 | 2.4 | 3.8 | 4.0 | 0.2 | 0 |
| Guinea | 0 | 1,026 | 0 | 0 | 0 | 0.9 | 1.0 | 1.1 | 0.2 | 0 |
| Guinea-Bissau | 0 | 209 | 0 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.2 | 0 |
| Kenya | 297 | 4,287 | 0 | 0 | 758 | 6.2 | 5.3 | 6.7 | 0.2 | 0 |
| Lesotho | - | - | - | - | - | - | 0.0 | - | - | - |
| Liberia | 0 | 275 | 0 | 0 | 4 | - | 0.3 | - | 0.1 | 0 |
| Libyan Arab Jamahiriya | 15 | 23,721 | 10,501 | 4,155 | 1,129 | 26.9 | 39.5 | 39.4 | 8.1 | 0 |
| Madagascar | 4 | 912 | 0 | 0 | 29 | 1.6 | 0.9 | 1.1 | 0.1 | 0 |
| Malawi | 33 | 561 | 0 | 0 | 59 | 0.7 | 0.7 | 0.7 | 0.1 | 0 |
| Mali | 0 | 432 | 0 | 0 | 11 | 0.4 | 0.4 | 0.5 | 0.0 | 0 |
| Mauritania | 15 | 2,807 | 0 | 0 | 44 | 0.6 | 2.9 | 3.1 | 1.4 | 0 |
| Mauritius | 165 | 1,191 | 0 | 0 | 0 | 0.6 | 1.4 | 1.5 | 1.2 | 0 |
| Morocco | 4,869 | 19,265 | 48 | 0 | 3,166 | 15.9 | 27.3 | 29.3 | 1.0 | 0 |
| Mozambique | 161 | 821 | 0 | 0 | 15 | 3.2 | 1.0 | 1.0 | 0.1 | 0 |
| Namibia | - | - | - | - | - | - | 0.0 | - | - | - |
| Niger | 458 | 616 | 0 | 0 | 11 | 0.6 | 1.1 | 1.1 | 0.1 | 0 |
| Nigeria | 180 | 37,285 | 9,405 | 47,896 | 1,744 | 68.1 | 96.5 | 90.7 | 0.8 | 0 |
| Réunion | - | - | - | - | - | - | 0.0 | - | - | - |
| Rwanda | 0 | 421 | 0 | 4 | 29 | 0.3 | 0.5 | 0.5 | 0.1 | 0 |
| Saint Helena | - | - | - | - | - | - | 0.0 | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | 0.0 | - | - | - |
| Senegal | 0 | 2,510 | 0 | 0 | 300 | 2.8 | 2.8 | 3.1 | 0.4 | 0 |
| Seychelles | - | - | - | - | - | - | 0.0 | - | - | - |
| Sierra Leone | 0 | 432 | 0 | 0 | 0 | 0.6 | 0.4 | 0.4 | 0.1 | 0 |
| Somalia | 0 | 0 | 0 | 0 | 15 | - | 0.0 | - | 0.0 | 0 |
| South Africa | 239,138 | 47,544 | 0 | 0 | 3,613 | 211.3 | 290.3 | 305.8 | 7.3 | 0 |
| Sudan | 0 | 3,338 | 0 | 0 | 125 | 3.3 | 3.5 | 3.5 | 0.1 | 0 |
| Swaziland | 267 | 0 | 0 | 0 | 0 | - | 0.3 | - | 0.3 | 0 |
| Togo | 0 | 539 | 0 | 0 | 194 | 0.6 | 0.7 | 0.7 | 0.2 | 0 |
| Tunisia | 385 | 9,746 | 1,784 | 22 | 1,627 | 9.4 | 13.6 | 15.3 | 1.6 | 0 |
| Uganda | 0 | 931 | 0 | 0 | 26 | 0.6 | 1.0 | 1.0 | 0.0 | 0 |
| United Republic of Tanzania | 0 | 1,832 | 0 | 0 | 271 | 1.9 | 2.1 | 2.4 | 0.1 | 0 |
| Zambia | 883 | 1,411 | 0 | 0 | 187 | 3.5 | 2.5 | 2.4 | 0.3 | 0 |
| Zimbabwe | 15,664 | 2,565 | 0 | 0 | 447 | 9.6 | 18.7 | 9.7 | 1.8 | 0 |

- : data not available

0 : zero or less than half the unit of measure.

Estimates are of the carbon dioxide emitted, 3.664 times the carbon it contains.

Emissions from Bunker Fuels are included in other categories as well.

(1): former Zaïre

Table 5. Energy Consumption

| Countries | Commercial energy consumption | | | | | | Traditional fuels | | | | | |
|------------------------------------|----------------------------------|---------------------------------------|-------------------------|--------------------------------|--------------|-------------|-------------------------|--------------------------------|-------------------------|--------------------------------|-------------------------|-----------|
| | Total peta- joules 1993 | Per capita giga- joules 1993 | Per constant | | Imports as a | | Total | | Per capita | | Percentage | |
| | | | 1987 US\$ of GNP | | % of the | | Peta- joules 1993 | Percent change 1973-1993 | Mega- joules 1993 | Percent change 1973-1993 | of total consumption | |
| | | | Mega- joules 1993 | Percent change 1973-1993 | 1973 | 1993 | | | | | 1973 | 1993 |
| Africa | 8,751 | 8 | 416 | 22 | -20 | -106 | 4,810 | 59 | 368,122 | -2 | 54 | 53 |
| Algeria | 1,183 | 44 | 18 | 144 | -176 | -274 | 19 | 64 | 714 | -8 | 5 | 2 |
| Angola | 26 | 3 | - | - | -1136 | -3835 | 56 | -12 | 5,455 | -50 | 63 | 68 |
| Benin | 7 | 1 | 4 | -28 | 81 | -71 | 48 | 67 | 9,482 | -5 | 84 | 87 |
| Botswana (a) | - | - | 0 | - | - | - | 13 | 102 | 9,420 | 2 | 100 | 100 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 8 | 1 | 3 | 57 | 30 | 100 | 85 | 62 | 8,652 | -2 | 96 | 91 |
| Burundi | 3 | 0 | 2 | 77 | 30 | 100 | 44 | 60 | 7,222 | -4 | 97 | 94 |
| Cameroon | 36 | 3 | 4 | 17 | 38 | -639 | 114 | 72 | 9,130 | -2 | 81 | 76 |
| Cape Verde | - | - | - | - | - | - | - | - | - | - | - | - |
| Central African Republic | 3 | 1 | 3 | -2 | 82 | 133 | 34 | 67 | 10,694 | 4 | 89 | 92 |
| Chad | 1 | 0 | 1 | -71 | 337 | 200 | 35 | 55 | 5,900 | 0 | 91 | 97 |
| Comoros | - | - | - | - | - | - | - | - | - | - | - | - |
| Congo | 24 | 10 | 10 | 67 | -234 | -1379 | 22 | 77 | 8,945 | -1 | 69 | 48 |
| Côte d'Ivoire | 109 | 8 | 11 | 115 | 40 | 119 | 103 | 111 | 7,723 | -1 | 57 | 49 |
| Democratic Republic of the Congo (| 73 | 2 | - | - | 58 | 4 | 365 | 70 | 8,854 | -9 | 81 | 83 |
| Djibouti | - | - | - | - | - | - | - | - | - | - | - | - |
| Egypt | 1,226 | 20 | 30 | 36 | -6 | -84 | 45 | 59 | 752 | -2 | 9 | 4 |
| Equatorial Guinea | 2 | 5 | 13 | - | 19 | 100 | 4 | 20 | 11,522 | -20 | 84 | 69 |
| Eritrea | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethiopia | 45 | 1 | - | - | 53 | 93 | 414 | 84 | 7,984 | 9 | 91 | 90 |
| Gabon | 32 | 26 | 7 | -52 | -926 | -1859 | 26 | 138 | 21,166 | 10 | 24 | 45 |
| Gambia | 3 | 3 | 10 | 59 | 28 | 100 | 9 | 27 | 8,579 | -38 | 89 | 75 |
| Ghana | 67 | 4 | 10 | 10 | 53 | 75 | 152 | 101 | 9,213 | 15 | 64 | 69 |
| Guinea | 15 | 2 | 6 | - | 72 | 100 | 35 | 43 | 5,594 | -8 | 69 | 70 |
| Guinea-Bissau | 3 | 3 | 13 | 6 | 49 | 100 | 4 | 11 | 4,012 | -38 | 72 | 58 |
| Kenya | 90 | 3 | 10 | -14 | 86 | 97 | 344 | 84 | 13,049 | -11 | 80 | 79 |
| Lesotho (a) | - | - | 0 | - | - | - | 6 | 168 | 3,338 | 56 | 100 | 100 |
| Liberia | 5 | 2 | - | - | 373 | 100 | 48 | 56 | 17,045 | -17 | 62 | 91 |
| Libyan Arab Jamahiriya | 457 | 91 | - | - | -982 | -562 | 5 | 18 | 1,037 | -47 | 7 | 1 |
| Madagascar | 15 | 1 | 5 | -10 | 127 | 93 | 76 | 56 | 5,483 | -17 | 77 | 84 |
| Malawi | 11 | 1 | 8 | -20 | 59 | 82 | 133 | 198 | 12,596 | 39 | 86 | 92 |
| Mali | 7 | 1 | 3 | 12 | 52 | 100 | 54 | 68 | 5,279 | -2 | 90 | 88 |
| Mauritania | 39 | 18 | 37 | 297 | 17 | 118 | 0 | 58 | 37 | -4 | 1 | 0 |
| Mauritius | 21 | 19 | 8 | -20 | 56 | 143 | 17 | -13 | 15,392 | -31 | 67 | 44 |
| Morocco | 297 | 11 | 13 | 19 | 33 | 108 | 14 | 147 | 529 | 57 | 5 | 4 |
| Mozambique | 14 | 1 | 7 | - | 274 | 114 | 147 | 57 | 9,758 | 4 | 71 | 91 |
| Namibia (a) | - | - | 0 | - | - | - | 0 | - | 0 | - | - | - |
| Niger | 15 | 2 | 6 | 175 | 28 | 67 | 47 | 83 | 5,484 | -3 | 86 | 76 |
| Nigeria | 705 | 7 | 19 | 220 | -590 | -481 | 1,010 | 82 | 9,590 | 3 | 80 | 59 |
| Réunion | - | - | - | - | - | - | - | - | - | - | - | - |
| Rwanda | 7 | 1 | 3 | 154 | 15 | 100 | 53 | 16 | 6,986 | -37 | 97 | 88 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - | - |
| Senegal | 38 | 5 | 8 | 28 | 168 | 126 | 49 | 75 | 6,257 | 1 | 61 | 57 |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 6 | 1 | 10 | -59 | 154 | 233 | 30 | 49 | 6,903 | -2 | 64 | 83 |
| Somalia | - | - | - | - | - | - | 71 | 143 | 7,975 | 39 | 89 | 100 |
| South Africa (b) | 3,578 | 79 | 42 | - | 0 | -15 | 131 | 13 | 3,314 | -31 | 100 | 4 |
| Sudan | 48 | 2 | - | - | 170 | 110 | 220 | 78 | 8,261 | 1 | 61 | 82 |
| Swaziland (a) | - | - | 0 | - | - | - | 18 | 111 | 22,852 | 19 | 66 | 100 |
| Togo | 9 | 2 | 8 | 61 | 53 | 100 | 10 | 139 | 2,665 | 34 | 48 | 53 |
| Tunisia | 218 | 25 | 18 | 42 | -40 | 7 | 31 | 55 | 3,593 | -2 | 25 | 12 |
| Uganda | 16 | 1 | 2 | - | 94 | 81 | 137 | 85 | 6,870 | -2 | 81 | 90 |
| United Republic of Tanzania | 30 | 1 | 6 | -56 | 142 | 100 | 330 | 135 | 11,769 | 25 | 79 | 92 |
| Zambia | 51 | 6 | 22 | -32 | 78 | 33 | 130 | 91 | 14,536 | -2 | 52 | 72 |
| Zimbabwe | 208 | 19 | 32 | 1 | 11 | 25 | 70 | 57 | 6,513 | -16 | 26 | 25 |

- : data not available

0 : zero or less than half of the unit of measure,

(1) : former Zaïre

a : see South Africa.

b : data are for the South African Customs Union (Botswana, Lesotho, Namibia, South Africa, and Swaziland).

Commercial energy consumption does not include bunkers (fuel for aircraft and ships in international transport) or additions to stocks.

Imports are net imports (gross imports minus exports) and may exceed consumption due to additions to stocks and use for bunkers.

Table 6. Commercial Energy Production, 1993

| Countries | Primary electricity (a) | | | | | | | | | | | | | |
|--------------------------------------|-------------------------|----------------|--------------|----------------|---------------|----------------|--------------|----------------|-------------------|----------------|-------------|----------------|-------------|----------------|
| | Total | | Solid | | Liquid | | Gas | | Geothermal & wind | | Hydro | | Nuclear | |
| | Peta-joules | Percent change | Peta-joules | Percent change | Peta-joules | Percent change | Peta-joules | Percent change | Peta-joules | Percent change | Peta-joules | Percent change | Peta-joules | Percent change |
| | 1993 | 1973-93 | 1993 | 1973-93 | 1993 | 1973-93 | 1993 | 1973-93 | 1993 | 1973-93 | 1993 | 1973-93 | 1993 | 1973-93 |
| Africa | 21,307 | - | 4,259 | - | 13,836 | - | 2,942 | - | 17 | - | 180 | - | 79 | - |
| Algeria | 4,584 | 99 | 1 | 162 | 2,481 | 16 | 2,102 | 1,190 | 0 | - | 1 | -27 | 0 | - |
| Angola | 1,066 | 207 | 0 | - | 1,055 | 209 | 7 | 175 | 0 | - | 5 | 102 | 0 | - |
| Benin | 13 | - | 0 | - | 13 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Botswana (b) | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Burundi | 1 | 3,312 | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Cameroon | 270 | 6,879 | 0 | - | 260 | - | 0 | - | 0 | - | 10 | 145 | 0 | - |
| Cape Verde | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Central African Republic | 0 | - | 0 | - | - | - | 0 | - | 0 | - | 0 | 74 | 0 | - |
| Chad | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Comoros | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Congo | 365 | 313 | 0 | - | 363 | 315 | 0 | - | 0 | - | 2 | 550 | 0 | - |
| Côte d'Ivoire | 18 | 2,880 | 0 | - | 14 | - | 0 | - | 0 | - | 4 | 385 | 0 | - |
| Democratic Republic of the Congo (1) | 78 | 365 | 3 | -7 | 54 | - | 0 | - | 0 | - | 22 | 75 | 0 | - |
| Djibouti | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Egypt | 2,435 | 546 | 0 | - | 2,028 | 471 | 376 | 10,960 | 0 | - | 31 | 66 | 0 | - |
| Equatorial Guinea | 0 | - | 0 | - | - | - | 0 | - | 0 | - | 0 | 20 | 0 | - |
| Eritrea | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethiopia | 7 | 494 | 0 | - | - | - | 0 | - | 3 | - | 4 | 269 | 0 | - |
| Gabon | 637 | 89 | 0 | - | 631 | 98 | 4 | -78 | 0 | - | 3 | 14,100 | 0 | - |
| Gambia | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Ghana | 22 | 58 | 0 | - | 0 | - | 0 | - | 0 | - | 22 | 84 | 0 | - |
| Guinea | 1 | 256 | 0 | - | - | - | 0 | - | 0 | - | 1 | 151 | 0 | - |
| Guinea-Bissau | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Kenya | 21 | 1,328 | 0 | - | - | - | 0 | - | 10 | - | 11 | 646 | 0 | - |
| Lesotho (b) | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Liberia | 1 | -7 | 0 | - | - | - | 0 | - | 0 | - | 1 | -34 | 0 | - |
| Libyan Arab Jamahiriya | 3,054 | -33 | 0 | - | 2,806 | -37 | 248 | 107 | 0 | - | 0 | - | 0 | - |
| Madagascar | 1 | 71 | 0 | - | - | - | 0 | - | 0 | - | 1 | 145 | 0 | - |
| Malawi | 3 | 341 | 0 | - | - | - | 0 | - | 0 | - | 3 | 364 | 0 | - |
| Mali | 1 | 694 | 0 | - | - | - | 0 | - | 0 | - | 1 | 506 | 0 | - |
| Mauritania | 0 | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Mauritius | 0 | - | 0 | - | - | - | 0 | - | 0 | - | 0 | 52 | 0 | - |
| Morocco | 21 | -8 | 18 | 29 | 0 | - | 1 | -63 | 0 | - | 2 | -73 | 0 | - |
| Mozambique | 1 | -90 | 1 | -90 | - | - | 0 | - | 0 | - | 0 | -82 | 0 | - |
| Namibia (b) | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Niger | 5 | - | 5 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Nigeria | 4,140 | -3 | 3 | -63 | 3,935 | -8 | 191 | 1,513 | 0 | - | 12 | 121 | 0 | - |
| Réunion | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rwanda | 1 | 112 | 0 | - | - | - | 0 | - | 0 | - | 1 | 89 | 0 | - |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Senegal | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Somalia | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| South Africa (c) | 4,146 | 169 | 4,064 | 164 | - | - | 0 | - | 0 | - | 3 | -1 | 79 | - |
| Sudan | 3 | 316 | 0 | - | - | - | 0 | - | 0 | - | 3 | 836 | 0 | - |
| Swaziland (b) | - | - | 0 | - | - | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Togo | 0 | - | 0 | - | - | - | 0 | - | 0 | - | 0 | 50 | 0 | - |
| Tunisia | 209 | 24 | 0 | - | 196 | 21 | 13 | 144 | 0 | - | 0 | 21 | 0 | - |
| Uganda | 3 | 1 | 0 | - | - | - | 0 | - | 0 | - | 3 | -6 | 0 | - |
| United Republic of Tanzania | 2 | 78 | 0 | - | - | - | 0 | - | 0 | - | 2 | 95 | 0 | - |
| Zambia | 38 | 11 | 10 | -57 | - | - | 0 | - | 0 | - | 28 | 154 | 0 | - |
| Zimbabwe | 160 | 79 | 154 | 122 | - | - | 0 | - | 0 | - | 6 | -68 | 0 | - |

- : data not available or indeterminate.

0 : zero or less than half of the unit of measure.

(1): former Zaïre

a. The production of primary electricity was assessed at the equivalent of 100 % efficiency for wind and hydroelectric generation (at the heat value of electricity). 1 kilowatt hour = 3.6 million joules, at 33 % efficiency for nuclear power generation, and at 10 percent efficiency for geothermal generation.

b. see South Africa c. data are for the South Africa Customs Union (Botswana, Lesotho, Namibia, South Africa, and Swaziland).

Table 7. Water Resources and Withdrawals

| Countries | Annual internal renewable water resources (a) | | | | | | | | | | Annual river flows | | | Annual withdrawals | | | Sectoral withdrawals (b) (percent) | | |
|--------------------------------------|---|---------------------------|---------------------------------|-------------------------------|--------------|------------------|-----------------------------------|---------------------------|------------------------------------|----------|--------------------|--|--|--------------------|--|--|------------------------------------|--|--|
| | 1995 | | From other countries (cubic km) | To other countries (cubic km) | Year of data | Total (cubic km) | As a % of the water resources (a) | Per capita (cubic meters) | Sectoral withdrawals (b) (percent) | | | | | | | | | | |
| | Total (cubic km) | per capita (cubic meters) | | | | | | | Domestic | Industry | Agriculture | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Africa | 3996 | 5488 | - | - | - | 145 | 3.6 | 199 | 7 | 5 | 88 | | | | | | | | |
| Algeria | 15 | 528 | 0 | 0.7 | 1990 | 4.5 | 30.5 | 180 | 25 | 15 | 60 | | | | | | | | |
| Angola | 184 | 16618 | - | - | 1987 | 0.5 | 0.3 | 57 | 14 | 10 | 76 | | | | | | | | |
| Benin | 26 | 4770 | 16 | - | 1994 | 0.1 | 0.6 | 28 | 23 | 10 | 67 | | | | | | | | |
| Botswana | 15 | 9886 | 12 | - | 1992 | 0.1 | 0.8 | 83 | 32 | 20 | 48 | | | | | | | | |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Burkina Faso | 28 | 2713 | - | - | 1992 | 0.4 | 1.3 | 40 | 19 | 0 | 81 | | | | | | | | |
| Burundi | 4 | 563 | - | - | 1987 | 0.1 | 2.8 | 20 | 36 | 0 | 64 | | | | | | | | |
| Cameroon | 268 | 20252 | 0 | 0 | 1987 | 0.4 | 0.1 | 38 | 46 | 19 | 35 | | | | | | | | |
| Cape Verde | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Central African Republic | 141 | 42534 | - | - | 1987 | 0.1 | 0.0 | 26 | 21 | 5 | 74 | | | | | | | | |
| Chad | 43 | 6760 | 28 | - | 1987 | 0.2 | 0.4 | 34 | 16 | 2 | 82 | | | | | | | | |
| Comoros | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Congo | 832 | 321236 | 610 | - | 1987 | 0.0 | 0.0 | 20 | 62 | 27 | 11 | | | | | | | | |
| Côte d'Ivoire | 78 | 5451 | 1 | - | 1987 | 0.7 | 0.9 | 66 | 22 | 11 | 67 | | | | | | | | |
| Democratic Republic of the Congo (1) | 1019 | 23211 | 84 | - | 1990 | 0.4 | 0.0 | 10 | 61 | 16 | 23 | | | | | | | | |
| Djibouti | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Egypt | 58 | 923 | 56 | 0 | 1992 | 56.4 | 97.1 | 956 | 6 | 9 | 85 | | | | | | | | |
| Equatorial Guinea | 30 | 75000 | 0 | - | 1987 | 0.0 | 0.0 | 15 | 81 | 13 | 6 | | | | | | | | |
| Eritrea | 9 | 2492 | 6 | - | - | - | - | - | - | - | - | | | | | | | | |
| Ethiopia | 110 | 1998 | 0 | - | 1987 | 2.2 | 2.0 | 51 | 11 | 3 | 86 | | | | | | | | |
| Gabon | 164 | 124242 | 0 | - | 1987 | 0.1 | 0.0 | 57 | 72 | 22 | 6 | | | | | | | | |
| Gambia | 8 | 7156 | 5 | - | 1982 | 0.0 | 0.3 | 30 | 7 | 2 | 91 | | | | | | | | |
| Ghana | 53 | 3048 | 23 | - | 1970 | 0.3 | 0.6 | 35 | 35 | 13 | 52 | | | | | | | | |
| Guinea | 226 | 33731 | 0 | - | 1987 | 0.7 | 0.3 | 140 | 10 | 3 | 87 | | | | | | | | |
| Guinea-Bissau | 27 | 25163 | 11 | - | 1991 | 0.0 | 0.1 | 17 | 60 | 4 | 36 | | | | | | | | |
| Kenya | 30 | 1069 | 10 | - | 1990 | 2.0 | 6.8 | 87 | 20 | 4 | 76 | | | | | | | | |
| Lesotho | 5 | 2551 | 0 | - | 1987 | 0.1 | 1.0 | 30 | 22 | 22 | 56 | | | | | | | | |
| Liberia | 232 | 76341 | 32 | - | 1987 | 0.1 | 0.1 | 56 | 27 | 13 | 60 | | | | | | | | |
| Libyan Arab Jamahiriya | 1 | 111 | 0 | 0 | 1994 | 4.6 | 766.7 | 880 | 11 | 2 | 87 | | | | | | | | |
| Madagascar | 337 | 22827 | 0 | 0 | 1984 | 16.3 | 4.8 | 1584 | 1 | 0 | 99 | | | | | | | | |
| Malawi | 19 | 1678 | 1 | - | 1994 | 0.9 | 5.0 | 86 | 10 | 3 | 86 | | | | | | | | |
| Mali | 67 | 6207 | 40 | - | 1987 | 1.4 | 2.0 | 162 | 2 | 1 | 97 | | | | | | | | |
| Mauritania | 11 | 5013 | 11 | - | 1985 | 1.6 | 14.3 | 923 | 6 | 2 | 92 | | | | | | | | |
| Mauritius | 2 | 1979 | 0 | 0 | 1974 | 0.4 | 16.3 | 410 | 16 | 7 | 77 | | | | | | | | |
| Morocco | 30 | 1110 | 0 | 0.3 | 1992 | 10.9 | 36.2 | 427 | 5 | 3 | 92 | | | | | | | | |
| Mozambique | 208 | 12997 | 111 | 0 | 1992 | 0.6 | 0.3 | 41 | 9 | 2 | 89 | | | | | | | | |
| Namibia | 46 | 29545 | 39 | - | 1991 | 0.2 | 0.5 | 180 | 29 | 3 | 68 | | | | | | | | |
| Niger | 33 | 3552 | 29 | - | 1988 | 0.5 | 1.5 | 69 | 16 | 2 | 82 | | | | | | | | |
| Nigeria | 280 | 2506 | 59 | - | 1987 | 3.6 | 1.3 | 41 | 31 | 15 | 54 | | | | | | | | |
| Réunion | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Rwanda | 6 | 792 | - | - | 1993 | 0.8 | 12.2 | 102 | 5 | 2 | 94 | | | | | | | | |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Senegal | 39 | 4740 | 13 | - | 1987 | 1.4 | 3.5 | 202 | 5 | 3 | 92 | | | | | | | | |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| Sierra Leone | 160 | 35485 | 0 | - | 1987 | 0.4 | 0.2 | 99 | 7 | 4 | 89 | | | | | | | | |
| Somalia | 14 | 1459 | 8 | - | 1987 | 0.8 | 6.0 | 98 | 3 | 0 | 97 | | | | | | | | |
| South Africa | 50 | 1206 | 5 | - | 1990 | 13.3 | 26.6 | 359 | 17 | 11 | 72 | | | | | | | | |
| Sudan | 154 | 5481 | 119 | 56.5 | 1995 | 17.8 | 11.6 | 633 | 4 | 1 | 94 | | | | | | | | |
| Swaziland | 5 | 5275 | 2 | - | 1980 | 0.7 | 14.5 | 1171 | 2 | 2 | 96 | | | | | | | | |
| Togo | 12 | 2900 | 1 | - | 1987 | 0.1 | 0.8 | 28 | 62 | 13 | 25 | | | | | | | | |
| Tunisia | 4 | 443 | 0 | 0 | 1990 | 3.1 | 78.0 | 381 | 9 | 3 | 89 | | | | | | | | |
| Uganda | 66 | 3099 | 27 | - | 1970 | 0.2 | 0.3 | 20 | 32 | 8 | 60 | | | | | | | | |
| United Republic of Tanzania | 89 | 2998 | 9 | - | 1994 | 1.2 | 1.3 | 40 | 9 | 2 | 89 | | | | | | | | |
| Zambia | 116 | 12267 | 36 | - | 1994 | 1.7 | 1.5 | 186 | 16 | 7 | 77 | | | | | | | | |
| Zimbabwe | 20 | 1776 | 6 | - | 1987 | 1.2 | 6.1 | 136 | 14 | 7 | 79 | | | | | | | | |

- : data not available

0 : zero or less than half the unit of measure

(1) : former Zaïre

a. Annual Internal Renewable Water Resources usually include river flows from other countries.

b. Sectoral percentages date are the same as for annual withdrawal data. Total withdrawals may exceed 100 percent due to ground water drawdowns or river inflows.

Table 8. Groundwater and Desalination

| Countries | Average annual groundwater recharges | | Annual Groundwater Withdrawals | | | | | | | 1990 Desalinated Water Production (million cubic meters) |
|--------------------------------------|--------------------------------------|---------------------------|--------------------------------|------------------|----------------------------|---------------------------|--------------------|----------|-------------|--|
| | Total (cubic km) | Per capita (cubic meters) | Year | Total (cubic km) | Percent of Annual Recharge | Per capita (cubic meters) | Sectoral share (%) | | | |
| | | | | | | | Domestic | Industry | Agriculture | |
| | | | | | | | | | | |
| Africa | | | | | | | | | | |
| Algeria | 1.70 | 56 | 1985 | 2 | 117.6 | 91.0 | - | - | - | 30.00 |
| Angola | 72.00 | 6,017 | - | - | - | - | - | - | - | 0.14 |
| Benin | 1.80 a | 306 | - | - | - | - | - | - | - | - |
| Botswana | 1.70 a | 1,096 | - | - | - | - | - | - | - | - |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 9.50 a | 833 | - | - | - | - | - | - | - | - |
| Burundi | 2.10 b | 319 | - | - | - | - | - | - | - | - |
| Cameroon | 100.00 b | 6,982 | - | - | - | - | - | - | - | - |
| Cape Verde | - | - | - | - | - | - | - | - | - | - |
| Central African Republic | 56.00 b | 16,050 | - | - | - | - | - | - | - | - |
| Chad | 11.50 b | 1,669 | 1990 | 0 | 0.7 | 15.3 | 29.4 | 0.0 | 70.6 | - |
| Comoros | - | - | - | - | - | - | - | - | - | - |
| Congo | 198.00 b | 70,163 | - | - | - | - | - | - | - | - |
| Côte d'Ivoire | 37.70 a | 2,588 | - | - | - | - | - | - | - | - |
| Democratic Republic of the Congo (1) | 421.00 b | 149,185 | - | - | - | - | - | - | - | - |
| Djibouti | - | - | - | - | - | - | - | - | - | - |
| Egypt | 1.30 a | 20 | 1985 | 3 | 261.5 | 68.3 | - | - | - | 10.00 |
| Equatorial Guinea | 10.00 b | 23,256 | - | - | - | - | - | - | - | - |
| Eritrea | - | - | - | - | - | - | - | - | - | - |
| Ethiopia | 44.00 b, | 708 | - | - | - | - | - | - | - | - |
| Gabon | 62.00 b | 52,991 | 1989 | 0 | 0.0 | 0.6 | 100.0 | 0.0 | 0.0 | - |
| Gambia | 0.50 b | 419 | - | - | - | - | - | - | - | - |
| Ghana | 26.30 a | 1,326 | - | - | - | - | - | - | - | - |
| Guinea | 38.00 b | 4,952 | - | - | - | - | - | - | - | - |
| Guinea-Bissau | 14.00 b | 12,346 | - | - | - | - | - | - | - | - |
| Kenya | 3.00 a | 103 | - | - | - | - | - | - | - | - |
| Lesotho | 0.50 b | 229 | - | - | - | - | - | - | - | - |
| Liberia | 60.00 b | 21,834 | - | - | - | - | - | - | - | - |
| Libyan Arab Jamahiriya | 0.50 a | 84 | 1985 | 2 | 420.0 | 554.7 | 13.3 | 4.3 | 82.5 | 3.00 |
| Madagascar | 55.00 b | 3,364 | 1984 | 5 | 8.7 | 461.2 | 100.0 | 0.0 | 0.0 | - |
| Malawi | 1.40 b | 135 | - | - | - | - | - | - | - | - |
| Mali | 20.00 a | 1,690 | 1989 | 0 | 0.5 | 11.2 | 7.1 | 0.0 | 92.9 | - |
| Mauritania | 0.30 a | 122 | 1985 | 1 | 293.3 | 498.3 | - | - | - | 1.70 |
| Mauritius | 0.68 a | 589 | - | - | - | - | - | - | - | - |
| Morocco | 7.50 a | 268 | 1985 | 3 | 40.0 | 138.6 | - | - | - | 4.00 |
| Mozambique | 17.00 b | 910 | - | - | - | - | - | - | - | 0.10 |
| Namibia | 2.10 b | 1,270 | - | - | - | - | - | - | - | 3.00 |
| Niger | 2.50 a | 247 | 1988 | 0 | - | 17.9 | 57.7 | 3.8 | 38.5 | - |
| Nigeria | 87.00 b | 714 | - | - | - | - | - | - | - | 3.00 |
| Réunion | - | - | - | - | - | - | - | - | - | - |
| Rwanda | 3.60 b | 551 | - | - | - | - | - | - | - | - |
| Saint Helena | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - |
| Senegal | 7.60 b | 844 | 1985 | 0 | 3.3 | 39.2 | 25.0 | 0.0 | 75.0 | 0.05 |
| Seychelles | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 50.00 b | 10,924 | - | - | - | - | - | - | - | - |
| Somalia | 3.30 b | 310 | 1985 | 0 | 9.1 | 38.1 | - | - | - | 0.10 |
| South Africa | 4.80 | 108 | 1980 | 2 | 37.3 | 61.4 | 10.6 | 5.6 | 83.8 | 17.50 |
| Sudan | 7.00 | 245 | 1985 | 0 | 4.0 | 13.0 | - | - | - | 0.40 |
| Swaziland | - | - | - | - | - | - | - | - | - | - |
| Togo | 5.70 a | 1,286 | - | - | - | - | - | - | - | - |
| Tunisia | 1.21 a | 127 | 1985 | 1 | 101.7 | 167.7 | 13.6 | 0.0 | 86.4 | 9.00 |
| Uganda | 29.00 b | 1,360 | - | - | - | - | - | - | - | - |
| United Republic of Tanzania | 30.00 b | 932 | - | - | - | - | - | - | - | - |
| Zambia | 47.10 | 5,420 | - | - | - | - | - | - | - | - |
| Zimbabwe | 5.00 b | 419 | - | - | - | - | - | - | - | - |

- : data not available.

(1) : former Zaïre

a : Sum of all aquifer recharge flows. b : Sum of all groundwater flows (as a constituent of surface water flows)

c : Ethiopia includes Eritrea

Table 9. Vegetation Extent and Loss, 1980-'89

| Countries | Forests | | | | | | Savannah/ grassland | | Desert/ scrub | | Wetlands/ marsh | | Mangroves | |
|--------------------------------------|-------------------------------|-----------|-------------------------------|-----------|-------------------------------|-----------|-------------------------------|-----------|-------------------------------|-----------|-------------------------------|-----------|-------------------------------|-----------|
| | All forests | | Dry forests | | Moist forests | | Current | | Current | | Current | | Current | |
| | Current extent (000 HA) | % lost | Current extent (000 HA) | % lost | Current extent (000 HA) | % lost | Current extent (000 HA) | % lost | Current extent (000 HA) | % lost | Current extent (000 HA) | % lost | Current extent (000 HA) | % lost |
| Africa | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Algeria | - | - | - | - | - | - | - | - | - | - | 730 | - | 0 | 0 |
| Angola | 51,428 | 45 | 40,261 | 45 | 11,167 | 48 | 24,590 | 17 | 456 | 20 | - | - | 110 | 50 |
| Benin | 4,448 b | 62 b | 4,406 | 55 | 42 | 97 b | 0 | 0 | 0 | 0 | 0 | 0 | 7 | - |
| Botswana | 11,293 | 62 | 11,293 | 62 | 0 | 0 | 12,247 | 53 | 0 | 0 | 2,331 | 10 | 0 | 0 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 4,964 | 80 | 4,964 | 80 | 0 | 0 | 768 | 70 | 0 | 0 | 0 | 0 | 0 | 0 |
| Burundi | 117 | 91 | 114 | 91 | 3 | 95 | 246 | 80 | 0 | 0 | 14 | - | 0 | 0 |
| Cameroon | 18,468 | 59 | 2,949 | 69 | 15,519 | 56 | 376 | 72 | 0 | 0 | 16 | 80 | 486 | 40 |
| Cape Verde | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Central African Republic | 27,933 | 55 | 14,667 | 51 | 13,266 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chad (a) | 5,848 | 80 | 5,848 | 80 | 0 | 0 | 11,958 | 72 | 0 | 0 | 66 | 90 | 0 | 0 |
| Comoros | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Congo | 17,442 | 49 | 0 | 0 | 17,442 | 49 | 0 | 0 | 0 | 0 | 290 | - | 2 | 0 |
| Côte d'Ivoire | 6,308 b | 80 b | 3,562 | 60 | 2,746 | 88 b | 0 | 0 | 0 | 0 | 32 | - | 3 | - |
| Democratic Republic of the Congo (1) | 83,255 | 57 | 9,135 | 54 | 74,120 | 57 | 5,405 | 30 | 0 | 0 | 215 | 50 | 125 | 50 |
| Djibouti | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | 50 | 120 | 20 | 0 | 0 | 9 | 70 |
| Egypt | - | - | - | - | - | - | - | - | - | - | 809 | - | - | - |
| Equatorial Guinea | 1,285 | 50 | 0 | 0 | 1,285 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 60 |
| Eritrea | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethiopia | 5,570 | 86 | 5,570 | 86 | 0 | 0 | 27,469 | 61 | 525 | 30 | 0 | 0 | 0 | 0 |
| Gabon | 17,245 | 35 | 0 | 0 | 17,245 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 50 |
| Gambia | 122 b | 89 b | 72 | 90 | 50 | 88 b | 0 | 0 | 0 | 0 | 0 | 0 | 50 | - |
| Ghana | 4,254 b | 82 b | 2,670 | 71 | 1,584 | 89 b | 0 | 0 | 0 | 0 | 853 | - | 2 | - |
| Guinea | 7,440 | 69 | 1,799 | 71 | 5,641 | 69 | 0 | 0 | 0 | 0 | 525 | - | 120 | 60 |
| Guinea-Bissau | 512 | 80 | 0 | 0 | 512 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 70 |
| Kenya | 2,274 | 71 | 2,130 | 67 | 144 | 90 | 27,682 | 43 | 0 | 0 | 0 | 0 | 93 | 70 |
| Lesotho | 851 | 67 | 851 | 67 | 0 | 0 | 141 | 70 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liberia | 1,424 | 87 | 8 | 20 | 1,416 | 87 | 0 | 0 | 0 | 0 | 40 | - | 36 | 70 |
| Libyan Arab Jamahiriya | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 |
| Madagascar | 13,049 | 75 | 11,401 | 62 | 1,648 | 84 | 1,509 | 78 | 0 | 0 | 197 | - | 130 | 40 |
| Malawi | 3,977 | 56 | 3,977 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 60 | 0 | 0 |
| Mali (a) | 7,670 | 78 | 7,670 | 78 | 0 | 0 | 8,368 | 80 | 0 | 0 | 2,000 | - | 0 | 0 |
| Mauritania (a) | 6 | 90 | 6 | 90 | 0 | 0 | 4,610 | 88 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mauritius | 11 c | - | - | - | - | - | - | - | - | - | - | - | 0 | - |
| Morocco | - | - | - | - | - | - | - | - | - | - | 33 | - | 0 | 0 |
| Mozambique | 33,137 | 57 | 33,137 | 57 | 0 | 0 | 696 | 20 | 0 | 0 | 171 | 10 | 276 | 60 |
| Namibia | 15,020 | 52 | 15,020 | 52 | 0 | 0 | 14,741 | 59 | 14,570 | 0 | 225 | 10 | 0 | 0 |
| Niger (a) | 2,278 | 80 | 2,278 | 80 | 0 | 0 | 10,985 | 75 | 0 | 0 | 38 | 80 | 0 | 0 |
| Nigeria | 18,201 b | 80 b | 14,339 | 70 | 3,862 | 91 b | 498 | 80 | 0 | 0 | 42 | 80 | 1,052 | - |
| Reunion | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rwanda | 184 | 80 | 184 | 80 | 0 | 0 | 157 | 90 | 0 | 0 | 80 | - | 0 | 0 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Senegal | 2,455 b | 82 | 2,250 | 80 | 205 | 93 b | 1,120 | 80 | 0 | 0 | 2 | - | 185 | - |
| Seychelles | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 554 b | 92 b | 48 | 40 | 506 | 93 b | 0 | 0 | 0 | 0 | 0 | 0 | 102 | - |
| Somalia | 642 | 67 | 642 | 67 | 0 | 0 | 36,374 | 40 | 712 | 4 | 0 | 0 | 54 | 70 |
| South Africa | 20,444 | 46 | 20,444 | 46 | 0 | 0 | 32,257 | 62 | 880 | 0 | 0 | 0 | 45 | 50 |
| Sudan (a) | 15,367 | 74 | 15,162 | 73 | 205 | 91 | 36,007 | 68 | 0 | 0 | 11,170 | - | 0 | 0 |
| Swaziland | 772 | 56 | 772 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Togo | 1,758 b | 69 b | 1,622 | 57 | 136 | 92 b | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Tunisia | - | - | - | - | - | - | - | - | - | - | 868 | - | 0 | 0 |
| Uganda | 3,371 | 79 | 2,062 | 67 | 1,309 | 86 | 1,042 | 71 | 0 | 0 | 1,420 | - | 0 | 0 |
| United Republic of Tanzania | 36,137 | 40 | 35,867 | 39 | 270 | 80 | 14,352 | 49 | 0 | 0 | 1,545 | - | 212 | 60 |
| Zambia | 44,606 | 30 | 44,606 | 30 | 0 | 0 | 8,175 | 18 | 0 | 0 | 1,106 | 10 | 0 | 0 |
| Zimbabwe | 17,169 | 56 | 17,169 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

- : data not available.

0 : zero or less than half the unit of measure.

(1) : former Zaïre

a. Data are for sub-Saharan region only. b. Includes mangroves. c. Protected private and crown forest lands.

Table 10. Forest Cover and Change

| Countries | Total Forest area (000 HA) | | Annual rate of deforestation | | Natural Forest | | | | Annual rate of reforestation | |
|--------------------------------------|-------------------------------|---------|---------------------------------|---------|--------------------------------------|---------|------------------|---------|---------------------------------|---------|
| | | | Cover (000 HA) | | Average annual rate of change (%) | | of reforestation | | | |
| | 1980 | 1990 | 1995 | 1980-90 | 1990-95 | 1990 | 1995 | 1980-90 | 1990-95 | 1980-90 |
| Africa | 585,858 | 538,978 | 520,237 | 0.8 | 0.7 | 534,226 | 515,455 | 0.9 | 0.7 | 4 |
| Algeria | 2,236 | 1,978 | 1,861 | 1.2 | 1.2 | 1,493 | 1,376 | -2.6 | 1.6 | 5 |
| Angola | 24,922 | 23,385 | 22,200 | 0.6 | 1.0 | 23,265 | 22,080 | -0.6 | 1.0 | 1 |
| Benin | 5,652 | 4,923 | 4,625 | 1.4 | 1.2 | 4,909 | 4,611 | 1.4 | 1.2 | 5 |
| Botswana | 15,030 | 14,271 | 13,917 | 0.5 | 0.5 | 14,270 | 13,916 | 0.5 | 0.5 | 0 |
| British Indian Ocean Terri. | - | - | - | - | - | - | - | - | - | - |
| Burkina Faso | 4,744 | 4,431 | 4,271 | 0.7 | 0.7 | 4,411 | 4,251 | 0.7 | 0.7 | 8 |
| Burundi | 260 | 324 | 317 | -2.2 | 0.4 | 232 | 225 | 0.6 | 0.6 | 19 |
| Cameroon | 21,573 | 20,244 | 19,598 | 0.6 | 0.6 | 20,228 | 19,582 | 0.6 | 0.6 | 14 |
| Cape Verde | - | - | - | - | - | - | - | - | - | - |
| Central African Republic | 31,854 | 30,571 | 29,930 | 0.4 | 0.4 | 30,565 | 29,924 | 0.4 | 0.4 | 48 |
| Chad | 12,322 | 11,496 | 11,025 | 0.7 | 0.8 | 11,492 | 11,021 | 0.7 | 0.8 | 6 |
| Comoros | - | - | - | - | - | - | - | - | - | - |
| Congo | 20,200 | 19,745 | 19,537 | 0.2 | 0.2 | 19,708 | 19,500 | 0.2 | 0.2 | 12 |
| Côte d'Ivoire | 12,128 | 5,623 | 5,469 | 7.4 | 0.6 | 5,560 | 5,403 | 7.8 | 0.6 | 7 |
| Democratic Republic of the Congo (1) | 120,613 | 112,946 | 109,245 | 0.7 | 0.7 | 112,904 | 109,203 | 0.7 | 0.7 | 10 |
| Djibouti | - | - | - | - | - | - | - | - | - | - |
| Egypt | 28 | 34 | 34 | -2.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 2 |
| Equatorial Guinea | 1,899 | 1,829 | 1,781 | 0.4 | 0.5 | 1,826 | 1,778 | 0.4 | 0.5 | 0 |
| Eritrea | - | 282 | 282 | - | 0.0 | 233 | 233 | - | 0.0 | - |
| Ethiopia | - | 13,891 | 13,579 | - | 0.5 | 13,751 | 13,439 | - | 0.5 | 10 |
| Gabon | 19,411 | 18,314 | 17,859 | 0.6 | 0.5 | 18,293 | 17,838 | 0.6 | 0.5 | 5 |
| Gambia | 106 | 95 | 91 | 1.1 | 0.9 | 94 | 90 | 1.1 | 0.9 | 0 |
| Ghana | 10,973 | 9,608 | 9,022 | 1.3 | 1.3 | 9,555 | 8,969 | 1.3 | 1.3 | 2 |
| Guinea | 7,561 | 6,741 | 6,367 | 1.1 | 1.1 | 6,737 | 6,363 | 1.2 | 1.1 | 5 |
| Guinea-Bissau | 2,181 | 2,361 | 2,309 | -0.8 | 0.4 | 2,360 | 2,308 | -0.8 | 0.4 | 0 |
| Kenya | 1,358 | 1,309 | 1,292 | 0.4 | 0.3 | 1,191 | 1,174 | 0.5 | 0.3 | 1 |
| Lesotho | 1 | 6 | 6 | -19.6 | 0.0 | 0 | 0 | 0.0 | 0.0 | 16 |
| Liberia | 4,892 | 4,641 | 4,507 | 0.5 | 0.6 | 4,635 | 4,501 | 0.5 | 0.6 | 1 |
| Libyan Arab Jamahiriya | 290 | 400 | 400 | -3.3 | 0.0 | 190 | 190 | 0.0 | 0.0 | 7 |
| Madagascar | 17,314 | 15,756 | 15,106 | 0.9 | 0.8 | 15,539 | 14,889 | 1.0 | 0.9 | 2 |
| Malawi | 4,067 | 3,612 | 3,339 | 1.2 | 1.6 | 3,486 | 3,213 | 1.4 | 1.6 | 8 |
| Mali | 13,208 | 12,154 | 11,585 | 0.8 | 1.0 | 12,140 | 11,571 | 0.8 | 1.0 | 27 |
| Mauritania | 554 | 556 | 556 | 0.0 | 0.0 | 554 | 554 | 0.0 | 0.0 | 24 |
| Mauritius | 11 | 12 | 12 | -0.9 | 0.0 | 3 | 3 | 0.7 | -1.4 | 2 |
| Morocco | 4,032 | 3,894 | 3,835 | 0.3 | 0.3 | 3,573 | 3,514 | 0.6 | 0.3 | 4 |
| Mozambique | 18,701 | 17,443 | 16,862 | 0.7 | 0.7 | 17,415 | 16,834 | 0.7 | 0.7 | 4 |
| Namibia | 13,000 | 12,584 | 12,374 | 0.3 | 0.3 | 12,584 | 12,374 | 0.3 | 0.3 | 0 |
| Niger | 2,554 | 2,562 | 2,562 | 0.0 | 0.0 | 2,550 | 2,550 | 0.0 | 0.0 | 10 |
| Nigeria | 16,935 | 14,387 | 13,780 | 1.6 | 0.9 | 14,236 | 13,629 | 1.7 | 0.9 | 3 |
| Réunion | - | - | - | - | - | - | - | - | - | - |
| Rwanda | 213 | 252 | 250 | -1.7 | 0.2 | 164 | 162 | 0.2 | 0.2 | 7 |
| Saint Helena | - | - | - | - | - | - | - | - | - | - |
| Sao Tome and Principe | - | - | - | - | - | - | - | - | - | - |
| Senegal | 8,072 | 7,629 | 7,381 | 0.6 | 0.7 | 7,517 | 7,269 | 0.7 | 0.7 | 25 |
| Seychelles | - | - | - | - | - | - | - | - | - | - |
| Sierra Leone | 2,015 | 1,522 | 1,309 | 2.8 | 3.0 | 1,516 | 1,303 | 2.8 | 3.0 | 3 |
| Somalia | 786 | 760 | 754 | 0.3 | 0.2 | 756 | 750 | 0.3 | 0.2 | 0 |
| South Africa | 8,682 | 8,574 | 8,499 | 0.1 | 0.2 | 7,279 | 7,204 | 0.8 | 0.2 | 2 |
| Sudan | 47,909 | 43,376 | 41,613 | 1.0 | 0.8 | 43,173 | 41,410 | 1.0 | 0.8 | 6 |
| Swaziland | 145 | 146 | 146 | -0.1 | 0.0 | 74 | 74 | 0.0 | 0.0 | 0 |
| Togo | 1,576 | 1,338 | 1,245 | 1.6 | 1.4 | 1,317 | 1,224 | 1.8 | 1.5 | 12 |
| Tunisia | 521 | 570 | 555 | -0.9 | 0.5 | 369 | 354 | 1.6 | 0.8 | 8 |
| Uganda | 7,011 | 6,400 | 6,104 | 0.9 | 0.9 | 6,380 | 6,084 | 0.9 | 1.0 | 0 |
| United Republic of Tanzania | 38,004 | 34,123 | 32,510 | 1.1 | 1.0 | 33,969 | 32,356 | 1.1 | 1.0 | 8 |
| Zambia | 35,958 | 32,720 | 31,398 | 0.9 | 0.8 | 32,677 | 31,355 | 0.9 | 0.8 | 6 |
| Zimbabwe | 9,576 | 8,960 | 8,710 | 0.7 | 0.6 | 8,876 | 8,626 | 0.7 | 0.6 | 2 |

- : data not available.

(1) : former Zaïre

In the column *annual rate of deforestation*, positive values mean loss of forests, negative values mean gain of forests.In the column *average annual rate of change of natural forests*, positive values mean loss of forests, negative values mean gain of forests.

Technical Notes

Table 1. Urbanization Profile

Urban population as % of total population is the percentage of the population living in urban areas as defined according to the national definition used in the most recent population census. Since national definitions differ, cross-country comparisons should be made with caution. Table 1 further gives the *average annual change rate of the population* in percentages, and the total population in absolute figures, and as a percentages of the capitals and some major cities.

Source: "World Urbanization Prospects: The 1996 Revision", UN, 1998

Table 2. The Urban Environment, 1993

Crowding is the floor area per person, the median usable living space per person in a meter squared.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

The percentage of urban households connected to services is the percentage of the households with connection to water, sewerage, and electricity network.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

The per capita water use is the average consumption of water in liters per person per day, for all uses. Consumption of water per person depends on the availability and price of water, the climate, and the uses to which water is customarily put by individuals (e.g., drinking, bathing, washing, and gardening).

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

Wastewater treated refers the percentage of all waste water undergoing any form of treatment, including primary (physical and mechanical processes that remove

20 to 30 percent of the biological oxygen demand [BOD], secondary (additional use of biological treatment that remove 80 to 90 percent of BOD), and tertiary (advanced added chemical treatments that remove 95 percent or more of BOD). The form of treatment varies dramatically among cities and countries.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

The per capita solid waste generation refers to the solid waste generated per person, in kilograms per day. This indicator should be regarded as a rough estimate because it is difficult to account for waste that is informally disposed of, incinerated, or composed.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

Households with garbage collection, refer to the percentage of households enjoying regular waste collection. Regular waste collection can include household collection, regular "dumppmaster" group collection, but not local dumps to which the household must carry garbage.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

Cars are measured as a ratio of the number of automobiles per 1,000 inhabitants. Automobiles in this case are taken to include all vehicles used for personal transport.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997

Percentage of work trips by public transport refers to the percentage of trips to work made by bus, tram, or train. Bus or minibus includes road vehicles other than car taking passengers on a fare-paying basis. It does not include other means of transport commonly used in developing countries such as ferry, taxi, animal, or rickshaw.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998

Other sources: "Global Urban Indicators Database", Habitat, 1997; and "Programme Activities: Analysis of Data and Global Urban Indicators Database (Urban Indicators Programme: Phase One: 1994-96)", Habitat, 1997.

Table 3. Air Pollution in Cities, 1990-'95

Total suspended particulates (TSP). Particulate matter is the general term for solid or liquid particles found in the atmosphere. Data for *total suspended particulates (TSP)* are presented in micrograms per cubic meter. WHO's 1987 mean annual guideline for TSP is 90 micrograms per meter. **Black smoke and particulate matter (PM-10)** are additional measures of suspended particulates. Black smoke includes particles large or dark enough to be seen as soot or smoke. PM-10 includes smaller particles that are likely to be responsible for adverse health effects because they can reach the lower respiratory tract. PM-10 includes particles with an aerodynamic size less than or equal to a standard particle with a diameter of 10 micrometers (0.0004 inches). WHO's 1987 mean annual guidelines for black smoke is 50 micrograms per cubic meter; for PM-10, it is 70 micrograms per cubic meter. The 1997 WHO air quality guidelines do not include guideline values for suspended particulate matter. See the WHO Web site at <http://www.who.ch>, for further information.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998. Other sources: "Urban Air Pollution in Megacities of the World", UNEP, WHO, 1992; "Health Cities Air Management, Information System, AMIS 1.0", (on diskettes), WHO, Geneva, 1997; and "Environmental Data: Compendiums, OECA, Paris, 1992, 1993, 1995, and 1997.

Sulfur dioxide (SO₂) belongs to the family of sulfur oxide gases. The major health concerns associated with exposure to high concentration of SO₂ include effects on breathing, respiratory illness, alterations in the lungs' defenses, and aggravation of existing cardiovascular disease. Levels of SO₂ in the air are presented in micrograms per cubic meter. WHO's mean annual 1997 guideline for SO₂ is 50 micrograms per cubic meter.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998. Other sources: "Urban Air Pollution in Megacities of the World", UNEP, WHO, 1992; "Health Cities Air Management, Information System, AMIS 1.0", (on diskettes), WHO, Geneva, 1997; and "Environmental Data: Compendiums, OECA, Paris, 1992, 1993, 1995, and 1997.

Nitrogen dioxide (NO₂) belongs to a family of poisonous, highly reactive gases called oxides of nitrogen. NO₂ can irritate the lungs and lower resistance to respiratory infections, such as influenza. NO₂ levels in the air are presented in micrograms per cubic meter. WHO's mean

annual 1997 guideline for NO₂ is 50 micrograms per cubic meter.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998. Other sources: "Urban Air Pollution in Megacities of the World", UNEP, WHO, 1992; "Health Cities Air Management, Information System, AMIS 1.0", (on diskettes), WHO, Geneva, 1997; and "Environmental Data: Compendiums, OECA, Paris, 1992, 1993, 1995, and 1997.

Table 4. CO₂ emissions

Carbon dioxide emissions (CO₂) are often calculated and reported in terms of their content of elemental carbon. Their values were converted to the actual mass of CO₂ by multiplying the carbon mass by 3.664 (the ratio of the mass of carbon to that of CO₂). The table includes data on industrial additions to the CO₂ flux from solid fuels, liquid fuels, gaseous fuels, gas flaring, and cement manufacturing. The Carbon Dioxide Information Analysis Center (CDIAC) annually calculates emissions of CO₂ from the burning of fossil fuels and the manufacture of cement for most of the countries of the world. Estimates of total and per capita national emissions do not include *bunker fuels* used in international transport because of the difficulty of apportioning these fuels among the countries benefiting from that transport. Emissions from bunker fuels are shown separately for the country where the fuel was delivered. *Total emissions* consist of the sum of the CO₂ produced during the consumption of solid, liquid, and gaseous fuels, and from gas flaring and the manufacture of cement. *Per capita carbon dioxide emissions* are calculated by dividing the total emissions by the population of each country of specified year.

Solid, liquid and gas fuels are primarily, but not exclusively, coals, petroleum products, and natural gas. **Gas flaring** is the practice of burning off gas released in the process of petroleum extraction, a practice that is declining.

Cement manufacture. During cement manufacturing, cement is calcined to produce calcium oxide. In the process, 0.498 metric ton of CO₂ is released for each metric ton of cement produced.

Bunker fuels are stored fuels to be used for ship or air transport. For more information, please refer to *Carbon dioxide emissions*.

Source: "African development Indicators 1997", World Bank, 1997. Other sources: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998; "Urban Air Pollution in Megacities of the World", UNEP, WHO, 1992; "Health Cities Air Management, Information System, AMIS 1.0", (on diskettes), WHO, Geneva, 1997; and "Environmental Data Compendium", OECA, Paris, 1992, 1993, 1995, and 1997.

Table 5. Energy Consumption

Commercial energy consumption refers to the "apparent consumption" and is defined as the domestic production plus net imports, minus net stock increases, minus aircraft and marine bunkers. Total consumption includes energy from solid, liquid and gaseous fuels, plus primary electricity. Energy consumption per constant 1987 US\$ of GNP is calculated using GNP data from the World Bank and is a measure of relative energy efficiency. Included under imports as a percentage of the consumption are imports minus exports. A negative value indicates that exports are greater than imports.

Source: "African Development Indicators 1997", World Bank, 1997. Other source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998; and "1995 Energy Statistics Yearbook", UN, New York, 1997.

Traditional fuels include estimates of the consumption of fuelwood, charcoal, bagasse, and animal and vegetal wastes. Fuelwood and charcoal consumption data are estimated from population data and country-specific per capita consumption figures.

Joule A petajoule is one quadrillion (1,015) joules. A gigajoule is one billion (109) joules. A megajoule is one million (106) joules.

Source: "African Development Indicators 1997", World Bank, 1997. Other source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998 "1995 Energy Statistics Yearbook", UN, New York, 1997

Table 6. Commercial Energy Production, 1993

Total production of commercially traded fuels includes solid, liquid, and gaseous fuels and primary electricity production. *Solid fuels* include bituminous coal, lignite, peat, and oil shale burned directly. *Liquid fuels* include crude petroleum and liquid natural gas. *Gas* includes natural gas and other petroleum gases. See *Joule* in Table 5 for information of joule.

Source: "African Development Indicators 1997", World Bank, 1997. Other sources: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998; and "1995 Energy Statistics Yearbook", UN, New York, 1997.

Primary electricity is valued differently depending on its source. Wind, tide, wave, solar, and hydroelectric power generation is expressed at the energy value of electricity (1 kilowatt hour = 3.3 million joules).

Source: "African Development Indicators 1997", World Bank, 1997. Other source: "World Resources 1998-99; A Guide to the

Global Environment", WRI, UNEP, UNDP, World Bank, 1998; and "1995 Energy Statistics Yearbook", UN, New York, 1997.

Table 7. Water Resources and Withdrawals

Annual internal renewable water resources refer to the average annual flow of rivers and recharge of groundwater generated from endogenous precipitation. Caution should be used when comparing different countries because these estimates are based on differing sources and dates. These annual averages also disguise large seasonal, inter-annual, and long-term variations. When data for **annual river flows from and to other countries** are not shown, the internal renewable water resources figure may include these flows. When such data are shown, they are not included in a country's total internal renewable water resources. The **per capita annual internal renewable water resources** were calculated using 1998 mid-year population estimates. Actual annual renewable water resources available for use is usually less than the sum of internal renewable resources and river flows. This is due to the fact that not all resources can be mobilized for use and that part of the flow coming from upstream countries or leaving for downstream countries might be reserved to those countries by treaty or any agreement. For example, Sudan's actual water resources include the flow of the Nile, less the amount that it is committed by treaty to deliver to Egypt at Aswan.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998. Other sources: "Irrigation in Africa in Figures, Water Reports 9", FAO, 1997; and "Water Resources of African countries: A Review", FAO, 1995.

Three measures are given for the **annual withdrawals of water**: the **total water withdrawals** (not counting evaporative losses from storage basins), the **withdrawals as a percentage of the water resources** and the **per capita annual withdrawals**. Water withdrawals include water from non-renewable groundwater sources, river flows from other countries, and desalination plants in countries where that source is a significant part of all water withdrawals.

Source: "World Resources 1998-99; A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998. Other sources: "Irrigation in Africa in Figures, Water Reports 9", FAO, 1997; and "Water Resources of African countries: A Review", FAO, 1995.

Sectoral withdrawals are classified as *domestic* (drinking water, homes, commercial establishments, public services, e.g., hospitals, and municipal use); *industrial* (some countries include water withdrawn to cool thermoelectric plants, while other do not; these can be significant amounts of total water withdrawals); and *agricultural*.

(irrigation and livestock). Those may not add because of rounding.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Irrigation in Africa in Figures, Water Reports 9", FAO, 1997; and "Water Resources of African countries: A Review", FAO, 1995

Table 8. Groundwater and Desalinization, 1998

Average annual groundwater recharge refers to the amount of water that is estimated to annually infiltrate soils, including water from rivers and streams that lose it to underlying strata. In general, this figure would represent the maximum amount of water that could be withdrawn annually without ultimately depleting the groundwater resource. These data are estimated in a variety of ways and caution should be used in comparing values for different countries.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other source: "Irrigation in Africa in Figures, Water Reports 7", FAO, 1995; and "Water Resources of African countries: A Review", FAO, 1995

Per capita recharge is the amount of water that annually infiltrates soils on a per-person basis, using 1998 mid-year population estimates.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Irrigation in Africa in Figures, Water Reports 7", FAO, 1995; and "Water Resources of African countries: A Review", FAO, 1995

Annual total groundwater withdrawals refer to abstractions from all groundwater sources, even non-renewable sources. The *percent of annual recharge* refers to total groundwater withdrawals. The *per capita annual withdrawals* were calculated using national population data for the year of data shown for withdrawals.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Irrigation in Africa in Figures, Water Reports 7", FAO, 1995; and "Water Resources of African countries: A Review", FAO, 1995

Sectoral share of withdrawals of groundwater is classified as *domestic* (drinking water, homes, commercial establishments, public services, e.g., hospitals, and municipal use or provision); *industry* (including water withdrawn to cool thermoelectric plants); and *agriculture* (irrigation and livestock).

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Irrigation in Africa in Figures, Water Reports 7", FAO, 1995; and "Water Resources of African countries: A Review", FAO, 1995.

Desalinated water production refers to the removal of salt from saline waters, usually seawater, using a variety of techniques including reverse osmosis. Most desalinated water is used for domestic purposes.

Source: "World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998
Other sources: "Irrigation in Africa in Figures, Water Reports 7", FAO, 1995; and "Water Resources of African countries: A Review", FAO, 1995.

Table 9. Vegetation Extent and Loss, 1980-'89

Forests comprise dry and moist forests. *Dry forests* include upland montane forest/nonforest, dry forest, and woodland; *moist forests* include lowland rainforest.

Source: "African Development Indicators 1997", World Bank, 1997.

Savannah/grassland includes salt-pan vegetation, brushland/thicket, shrubland, grassland, and halophytic.

Source: "African Development Indicators 1997", World Bank, 1997

Mangroves include mangrove forest and swamp.

Source: "African Development Indicators 1997", World Bank, 1997

Table 10. Forest Cover and Change

Total forest area consists of all forest area for temperate developed countries, and the sum of natural forest and plantation area categories for tropical and temperate developing countries.

Source: African Development Indicators 1997, World Bank, 1997. Other sources: FAO Website at <http://www.fao.org>
"World Resources 1998-99: A Guide to the Global Environment", WRI, UNEP, UNDP, World Bank, 1998

Annual rate of deforestation refers to the clearing of forest lands for all forms of agricultural uses (shifting cultivation, permanent agriculture and ranching) and for

other land uses such as settlements, other infrastructure, and mining.

Source: *African Development Indicators 1997*, World Bank, 1997. Other sources: *FAO Website* at <http://www.fao.org> and *"World Resources 1998-99; A Guide to the Global Environment"*, WRI, UNEP, UNDP, World Bank, 1998

Natural forest. FAO defines a *natural forest* in tropical and temperate developing countries as a forest composed primarily of indigenous (native) tree species. Natural forests include closed forest, where trees cover a high proportion of the ground and where grass does not form a continuous layer on the forest floor (e.g., broad-leaved forests, coniferous forests and bamboo forests), and open.

Source: *"African Development Indicators 1997"*, World Bank, 1997. Other sources: *FAO Website* at <http://www.fao.org>; and *"World Resources 1998-99; A Guide to the Global Environment"*, WRI, UNEP, UNDP, World Bank, 1998

Annual rate of reforestation does not include regeneration of old tree crops (through either natural regeneration or forest management), although some countries may report regeneration as reforestation.

Source: *African Development Indicators 1997*, World Bank, 1997. Other sources: *FAO Website* at <http://www.fao.org>; and *"World Resources 1998-99; A Guide to the Global Environment"*, WRI, UNEP, UNDP, World Bank, 1998.

V. CLASSIFICATION OF COUNTRIES

LOW-INCOME FOOD-DEFICIT COUNTRIES
(LIFDCs of Africa as of March 1998)

1. Angola
2. Benin
3. Burkina Faso
4. Burundi
5. Cameroon
6. Cape Verde
7. Central African Republic
8. Chad
9. Comoros
10. Congo
11. Côte d'Ivoire
12. Democratic Republic of the Congo
13. Djibouti
14. Egypt
15. Equatorial Guinea
16. Eritrea
17. Ethiopia
18. Gambia
19. Ghana
20. Guinea
21. Guinea-Bissau
22. Kenya
23. Lesotho
24. Liberia
25. Madagascar
26. Malawi
27. Mali
28. Mauritania
29. Morocco
30. Mozambique
31. Niger
32. Nigeria
33. Rwanda
34. Sao Tome and Principe
35. Senegal
36. Sierra Leone
37. Somalia
38. Sudan
39. Swaziland
40. Togo
41. United Republic of Tanzania
42. Zambia

Source: FAO Special Programme for Food Security on-line at:
<http://www.fao.org/spfs/list-e.htm>

LEAST DEVELOPED COUNTRIES (LDCs of Africa)

1. Angola
2. Benin
3. Burkina Faso
4. Burundi
5. Cape Verde
6. Central African Republic
7. Chad
8. Comoros
9. Democratic Republic of the Congo
10. Djibouti
11. Equatorial Guinea
12. Eritrea
13. Ethiopia
14. Gambia
15. Guinea
16. Guinea-Bissau
17. Lesotho
18. Liberia
19. Madagascar
20. Malawi
21. Mali
22. Mauritania
23. Mozambique
24. Niger
25. Rwanda
26. Sao Tome and Principe
27. Sierra Leone
28. Somalia
29. Sudan
30. Togo
31. Uganda
32. United Republic of Tanzania
33. Zambia

Source: *The Least Developed Countries: 1995 Report: Mid-Term Review of the Programme of Action, UN 1995)*