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POLICY RESEARCH WORKING PAPER

1488

Estimating the World at Work

Deon Filmer

What is the work status of the world's working-age population? This paper presents estimates of a breakdown on employment in services, industry, and agriculture — and unemployment — in the world and subgroups thereof.

Background paper for *World Development Report 1995*

The World Bank
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Summary findings

Addressing the question, “What is the work status of the world’s working-age population and subgroups thereof?” Filmer gathers data for many countries and infers data where it is missing (which requires making “heroic assumptions”). The results are of course only as good as the data are representative and accurate. Data are least reliable for Sub-Saharan Africa.

The high-income group is dominated (in population) by the United States, Germany, and Japan, which account for 58 percent of that group’s working-age population.

The middle-income group is dominated by Indonesia, the Russian Federation, and Brazil, which account for 40 percent of that group’s working-age population.

The low-income group is dominated by China and India, which account for 70 percent of that group’s working-age population.

Among other things, Filmer’s charts and tables show the breakdown on working-age employment — in services, industry, agriculture — and unemployment in various parts of the world.

This paper — a product of the Office of the Vice President, Development Economics — was prepared as a background paper for *World Development Report 1995* on labor. Copies of this paper are available free from the World Bank, 1818 H Street NW, Washington, DC 20433. Please contact Michael Geller, room T7-079, telephone 202-473-1393, fax 202-676-0652, internet address MGELLER@WORLD BANK.ORG (42 pages), July 1995.

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Estimating the World at Work

Deon Filmer ¹

Background paper to the 1995 World Development Report:

Workers in an Integrating World.

¹I would like to thank David Lindauer and Michael Walton for valuable comments and suggestions at various stages of this project.

1. Introduction

What is the employment status of the world's population? It is this simple question that this paper attempts to answer. By gathering data for many countries and inferring data for countries with missing data, this paper describes the work status of the working age population for the world, and various subgroups thereof. In order to describe the characteristics of the world's working age population one needs make some heroic assumptions about the mapping between available and unavailable data, and the way these aggregate into various country groupings. This paper documents the data, assumptions and methods used to estimate the "World at Work" numbers presented in the *World Development Report 1995: Workers in an Integrating World* [World Bank 1995].

First, a preliminary note on methodology: The goal is to estimate numbers for the working age population, and shares of the working age population out of the labor force, unemployed, in wage employment and nonwage employment in agriculture, industry, and services for the world, and various income and regional groupings. Clearly there are several ways of doing this. The strategy used here is twofold. First, get global estimates for the three World Bank income classifications (low-, middle-, and high-income countries) and aggregate these into estimates for the world. Second, for each geographic region, estimate the share of the working age population that falls into each category.

In order to aggregate, data on the *shares* for countries with available data are taken as representative of their income group or region and the weighted average share is projected onto the population data for the group or region. As the distinctions between employment status categories become finer (for example from the share in agriculture to the share of

agriculture in wage employment), data become more scarce. In order to maximize the data that enter into each calculation, the estimates are made in a sequential way. So for each income group or region: First, aggregate population data to get group totals. Second, estimate the share of the working age population that is in the labor force. Third, estimate the share in the labor force that is unemployed. Fourth, estimate the share of the work force that is in each sector. Fifth, within each sector, estimate the share that is in wage employment. The following section describes these steps in more detail.

2. Methodology

2.1. The working age population and activity rates

Population data for 1995 are obtained from age specific population estimates from the ILO. These are ILO updates to the data presented in the *ILO Estimates and Projections 1950-2025* [ILO 1986]² and are the latest available as of December 1994. The working age population for each country is calculated as the total population minus ages 0-14, and ages 65 and over. The labor force (ages 15-64) is calculated as the sum of the Economically Active Population for each age group between 15 and 64. These are derived by ILO from age-specific estimates of activity rates which are reported in *ILO Estimates and Projections 1950-2025*. Country level data for working age population, labor force (ages 15-64) and activity rates are given in Table 1. Activity rates are calculated as the share of the working age population that is economically active.

Defining who is economically active is not an uncontroversial task. Typically, women who

²According to personal communication with someone at the ILO, the "updated" nature of the data is new population estimates from the United Nations.

are not engaged in farm labor or wage employment are not classified as being economically active. Furthermore, inclusion in the economically active group, especially for women, varies across countries. In the *ILO Estimates and Projections 1950-2025*, a working definition of the economically active is used which consists of the following:

[...] including among the economically active population all persons who contribute to the supply of labour for the production of goods and services, i.e. all persons in employment (employers, own-account workers, salaried employees, wage earners, unpaid family workers, members of producer co-operatives and members of the armed forces), as well as all the unemployed (both those with previous job experience and those seeking work for the first time). It should be noted that this definition of the economically active population is the one adopted in 1954 by the Eighth International Conference of Labour Statisticians (OCLS). A new definition of the economically active population and its components (employment and unemployment) was adopted by the 13th ICLS in 1982. It was not possible to take account of the new definition in the present edition, data in accordance with the new definition not yet being available.[ILO 1986]

In estimating the *World at Work*, group specific estimates of the working age population are calculated as the sum over countries in each income group or region, using the groups defined in *1995 World Development Indicators* [World Bank 1995]. Group specific activity rates are calculated as the weighted mean of country specific participation rates. The weights used are the size of the working age population in 1995.

2.2. Unemployment

Cross-country comparability of unemployment statistics is not guaranteed (even within the OECD [OECD 1994 p. 6]). However, for present purposes, they are treated as equivalently defined shares of the labor force that is unemployed. There are several main sources for the data used here. First, a labor statistics database under construction [Topel, Levy and

Rama 1994] reports a set of unemployment figures for many countries around the world. Some of the data reported are relatively old, and some are not credible (for example 9.45% for India in 1986 or 0.09% for Nigeria in 1986) hence these data are supplemented from other sources. Second, the OECD's *Employment Outlook* [OECD 1994] reports estimates of 1995 unemployment rates for OECD countries (excluding Mexico). Third, the ILO's 1994 *World Labor Report* [ILO 94] reports 1991 unemployment rate estimates for many countries. Fourth, the EBRD's *Transition Report* [EBRD 1994] estimates are used for the countries of the former Soviet Union except for the Russian Federation. Fifth, country publications or World Bank sources are used in special cases for data which are still missing, old, or not credible. These are described below.

2.2.1. Special cases:

- Country statistical publications are used for Bangladesh [Bangladesh 1992], India [India 1992].
- A staff estimate is used for the Russian Federation.
- For South Africa, an estimate based on the *Project for Statistics on Living Standards and Development* data is used.
- For Ghana, an estimate based on the *Ghana Living Standards Survey 1988-89* is used.
- For Nigeria, an estimate reported in *Adjustment in Africa: Case Studies* [Faruqee 1994] is used.

Where there is more than one observation on unemployment for a particular country, only the latest date is used. The unemployment data used in the group aggregations and the size of the working age population used for weighting are presented Table 2³.

2.3. The sectoral distribution of the work force

Sectoral distribution data are also compiled from a variety of sources. First, and most importantly, is the ILO's *Yearbook of Labor Statistics* data. Data from Table 2-A of the Yearbook –which reports census survey, labor force survey, household survey, and official estimates– was downloaded from the World Bank's BESD on-line database. Only the last observation in the 1980-93 period is used for each country. The data give the number of workers in each of 10 industry categories which are aggregated as follows:

- Agriculture: Agriculture
- Industry: Mining and Quarrying; Manufacturing; Gas, Electricity and Water; Construction
- Services: Trade; Transport; Banking; Commercial Services; Not Adequately Defined or Described

Second, these data supplemented with ILO estimates for the distribution of the work force across the three sectors in 1990 for a variety of countries in all regions except Latin America and the Caribbean⁴ - these are recent (current as of May 1995) estimates for 1990.

³In Table 2 there are several countries in East and Central Asia (marked with an asterisk) with working age population data not present in Table 1 . These data are derived from a recent update from the ILO which reports decennial population estimates until 1990 for these new countries. A 1995 projection is made by applying the 1980-90 annual average growth rate of the working age population to the 1990 size of the working age population.

⁴Estimates for Latin America and the Caribbean are said to be forthcoming.

Third, sectoral distribution data as reported in the ILO's *World Labor Report* [ILO 1994] are used. Fourth, country statistical publications are used for China [China 1993a, 1993b], Bangladesh [Bangladesh 1992], India [India 1992], Indonesia [Indonesia 1993]. Where there is more than one observation for a particular country, only the latest date is used⁵.

The share of the work force in each sector is then averaged by income group or region using the 1995 working age population as the weight. The data used in these aggregations are given in Table 3 (see previous section for note on new countries in Europe and Central Asia).

2.4. Status of workers within sectors

When there is a breakdown of workers by status, the breakdown is usually as follows

- Employers and own-account workers
- Employees
- Unpaid family workers
- Not classifiable by status

Within each aggregated sector (agriculture, industry, services), the share of workers that are reported as employees is treated as the share that is in wage employment. The residual is the share that is in nonwage employment. Since actual data on the share of each sector that is in wage employment is only available for a relatively small sample of countries, a simple statistical model is used to estimate data where they are missing.

⁵Except for Bangladesh, where Labor Force survey data for 1989 are used over 1990 ILO estimates.

Actual data on the share of each sector in wage employment is combined with GNP per capita data as reported in the *1994 World Development Indicators* [World Bank 1994] as well as with population data from the same source. Predicted values from simple OLS regressions of the share of each sector in wage employment on the log of GNP per capita, its square, log of the size of the population, its square, as well as a set of regional dummies are used as estimates of the shares. In order to capture the reliability of the GNP and population data, a dummy equal to one if the data come from the Table 1a of the World Development indicators is also included. Results from these regressions are presented in Table 4a.

The share of each sector in wage employment is then averaged by income group and by region using the 1995 working age population as the weight. The source data for these aggregations are given in Table 4b.

3. The world at work

3.1. A note of caution

In interpreting the results of this estimation exercise, one must use a certain degree of caution. The group statistics are only valid up to the representativeness and accuracy of the underlying data. Given that the primary purpose of this exercise is to estimate the numbers for the world and for the income groups, it is these groups that are focused on. The aggregate income group statistics are driven by a few very large countries: The high-income group is dominated (in terms of population) by the United States, Japan and Germany which account for 58% of the group's working age population. The middle-income group is dominated by Indonesia, the Russian Federation, and Brazil which account for 40% of the group's working

age population. The low-income group is dominated by China and India which account for 70% of the group's working age population. Reliable and recent data were sought out for these countries, and the group aggregates (especially when wage and nonwage work are aggregated) are robust to the inclusion and non-inclusion of many of the other countries in each group.

Regional statistics are also dominated by a few large countries. Again, reliable data were sought for the largest in each group and when wage and nonwage work are aggregated, the source data are fairly representative. Data on the status of workers is hard to obtain, and was predicted for many countries⁶ (see Table 4b). In addition, the reliability of some of these data is questionable. These problems are particularly important for the Sub-Saharan African group.

In interpreting the results, care must also be taken as to which countries are included and excluded from each group or region. Two issues are of note here. First, from the 1994 to the 1995 *World Development Indicators* [World Bank 1994, 1995] classifications, Indonesia changed from a low-income economy to a middle-income economy. The size of Indonesia's population makes the results (particularly those for middle-income economies) sensitive to this change in classification. Second, the high-income OECD regional group does not consist of all the OECD economies. Greece, Mexico, Portugal, and Turkey are excluded. So, for example, the number of unemployed persons in the high-income OECD group is estimated at 30.9 million. If Greece, Portugal, and Turkey are included in the group, the estimated number of unemployed persons would be 35.3 million. This compares to a projection for

⁶None of the results are qualitatively effected when only actual data are used in caculating group aggregates.

1995 of 34.7 million in the OECD's *Employment Outlook* [OECD 1994].

3.2. Results

Table 5 - A presents the aggregated data. The totals (and averages) of the working age population, the unemployment rates, the sectoral shares and the within sector shares in wage employment are the only data input. All the other data Tables 5-A through 5-F are derived from these. World totals are aggregated from the estimates for low-, middle-, and high-income economies.

For ease of use, Tables 5-B through 5-F present the estimates in various forms:

Table 5 - B presents the estimated number of individuals in each category.

Table 5 - C presents the share in each category as a percentage of the working age population in each income group or region.

Table 5 - D presents the share in each category as a percentage of the labor force in each income group or region.

Table 5 - E presents the share in each category as a percentage of the world's working age population

Table 5 - F presents the share in each category as a percentage of the world's labor force.

Figures 1 through 7 present these data in graphical form

4. References

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Figure 1

The world at work: The distribution of the working-age population by income group

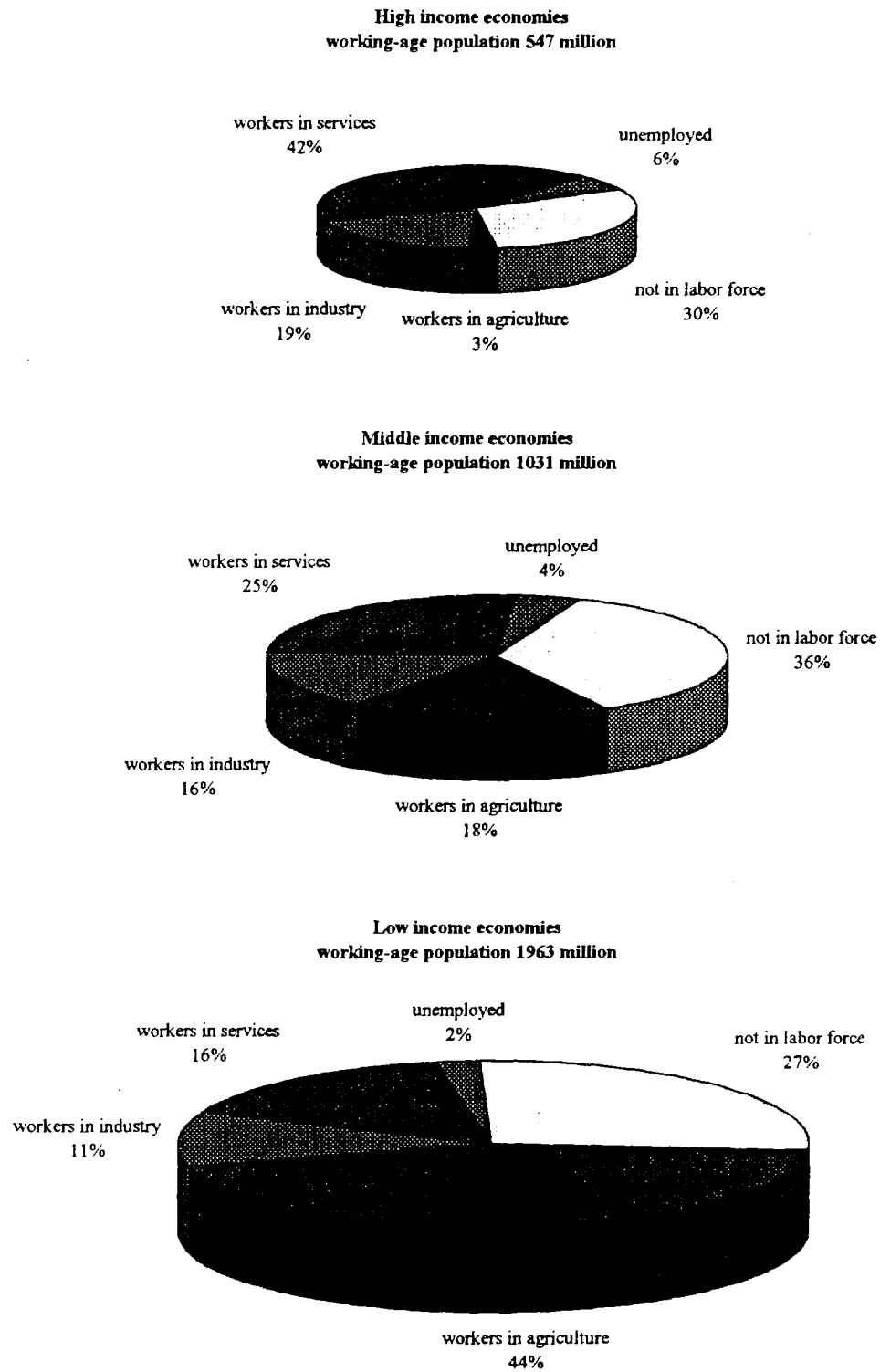


Figure 2
The distribution of the world's labor force by sector

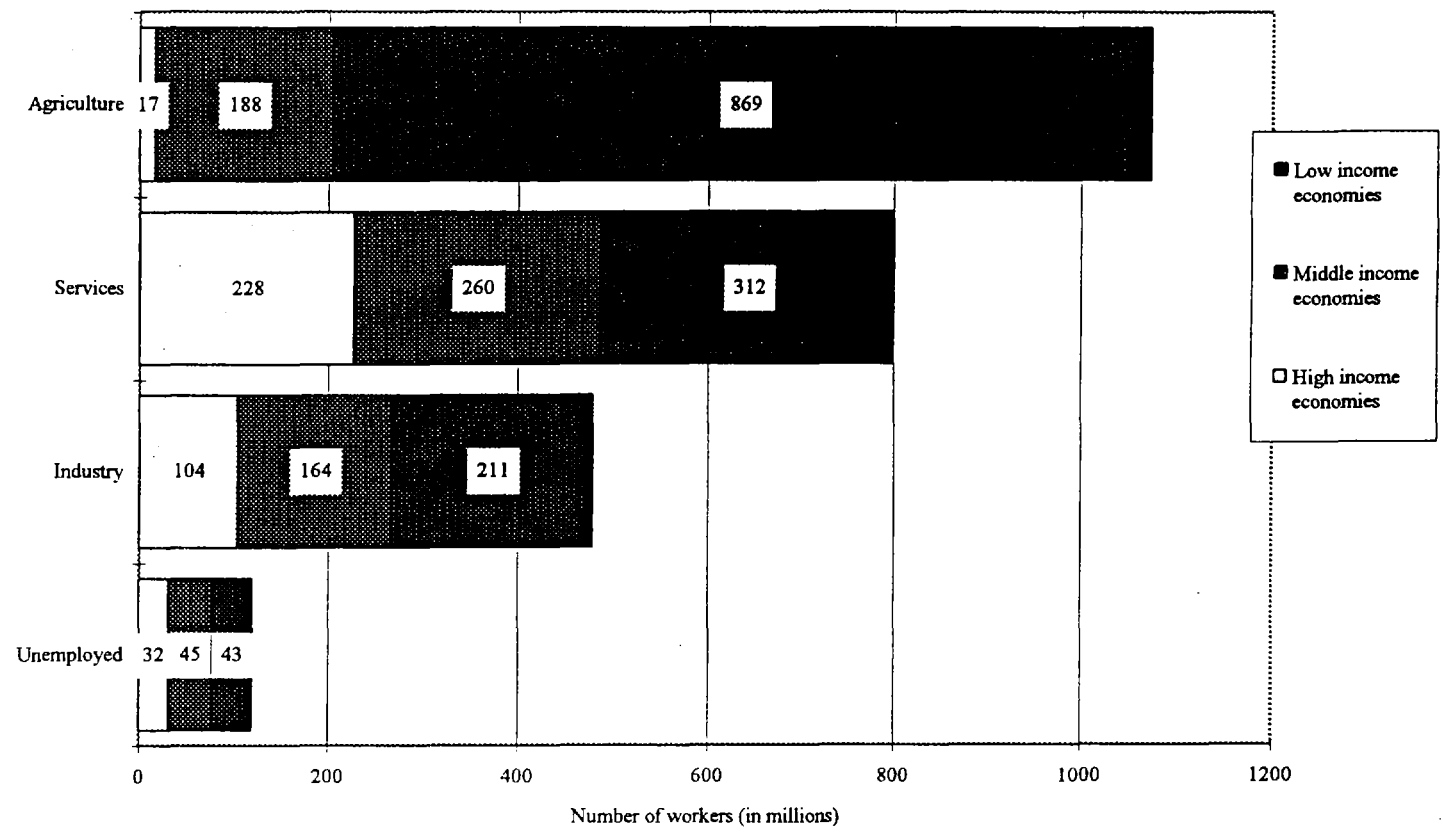


Figure 3
The distribution of the world's labor force by income group

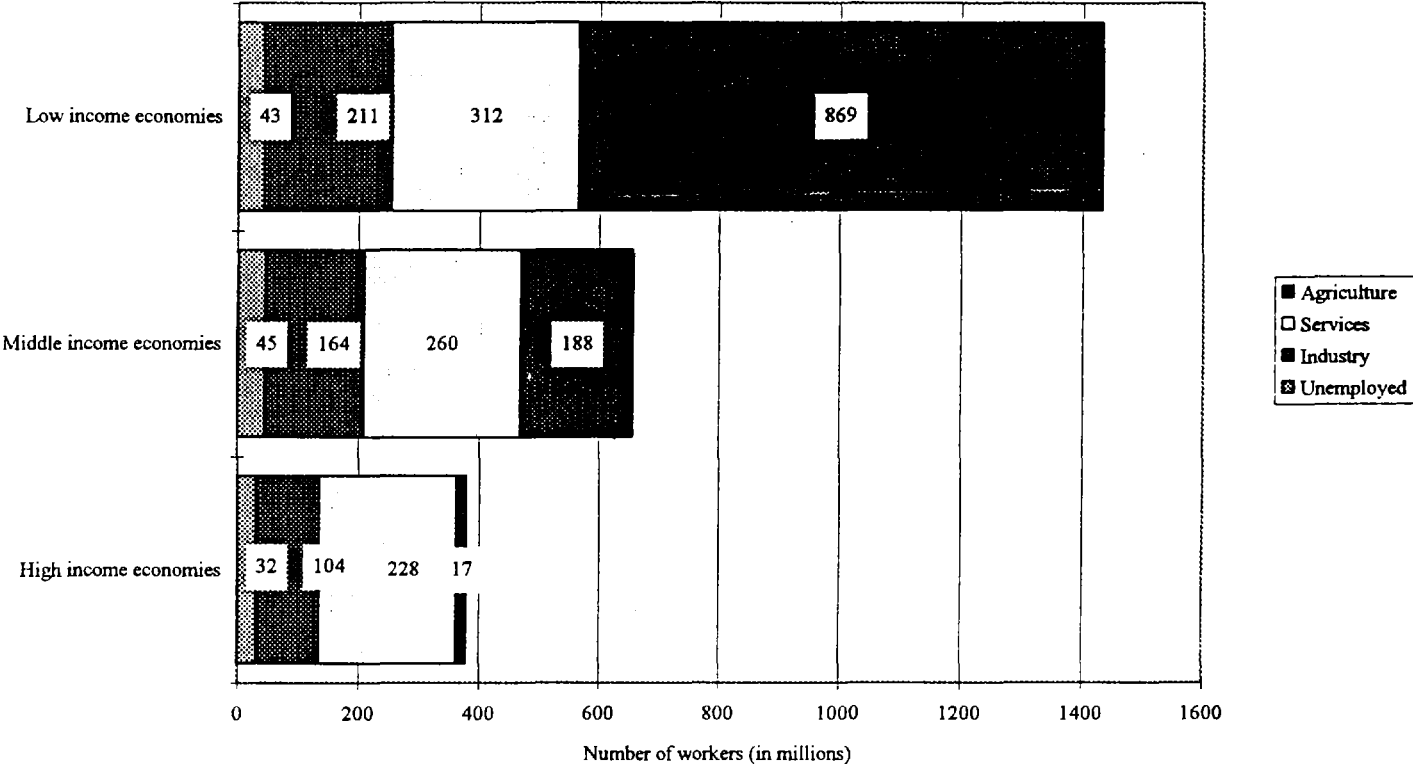
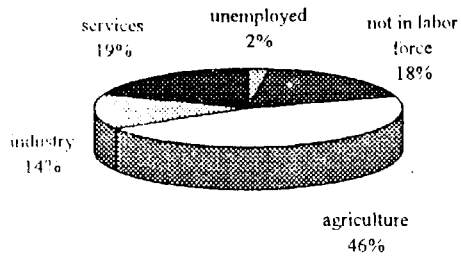
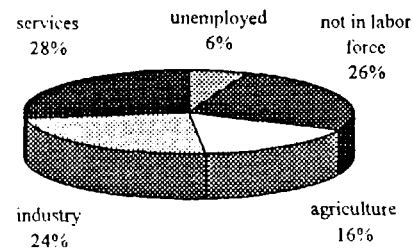


Figure 4: Distribution of the working-age population by region

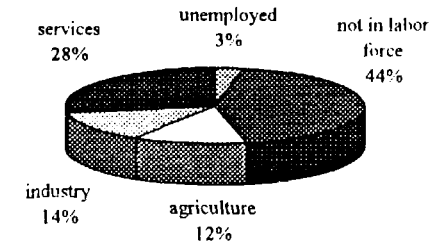
East Asia and Pacific (working-age population 1175 million)



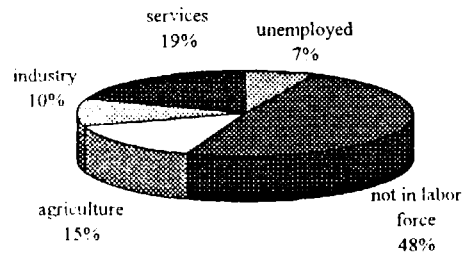
Europe and Central Asia (working-age population 324 million)



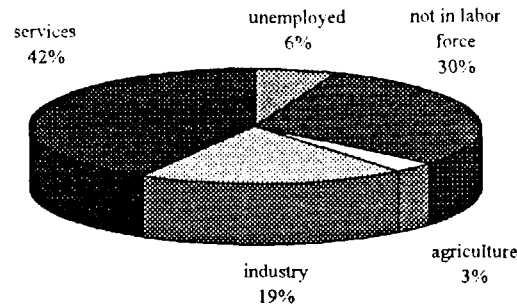
Latin America and Caribbean (working-age population 294 million)



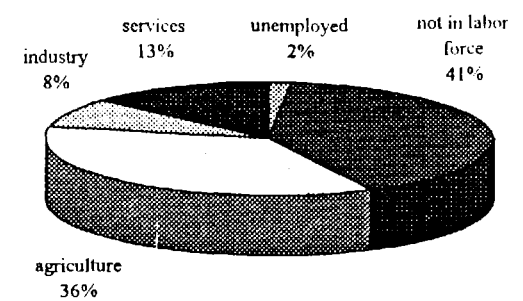
Middle East and North Africa (working-age population 155 million)



O.E.C.D. (working-age population 531 million)



South Asia (working-age population 744 million)



Sub-Saharan Africa (working-age population 314 million)

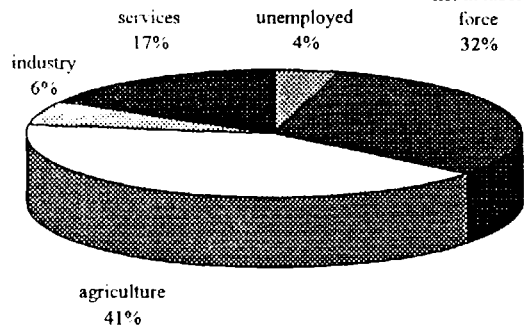


Figure 5: Labor force by sector in different regions

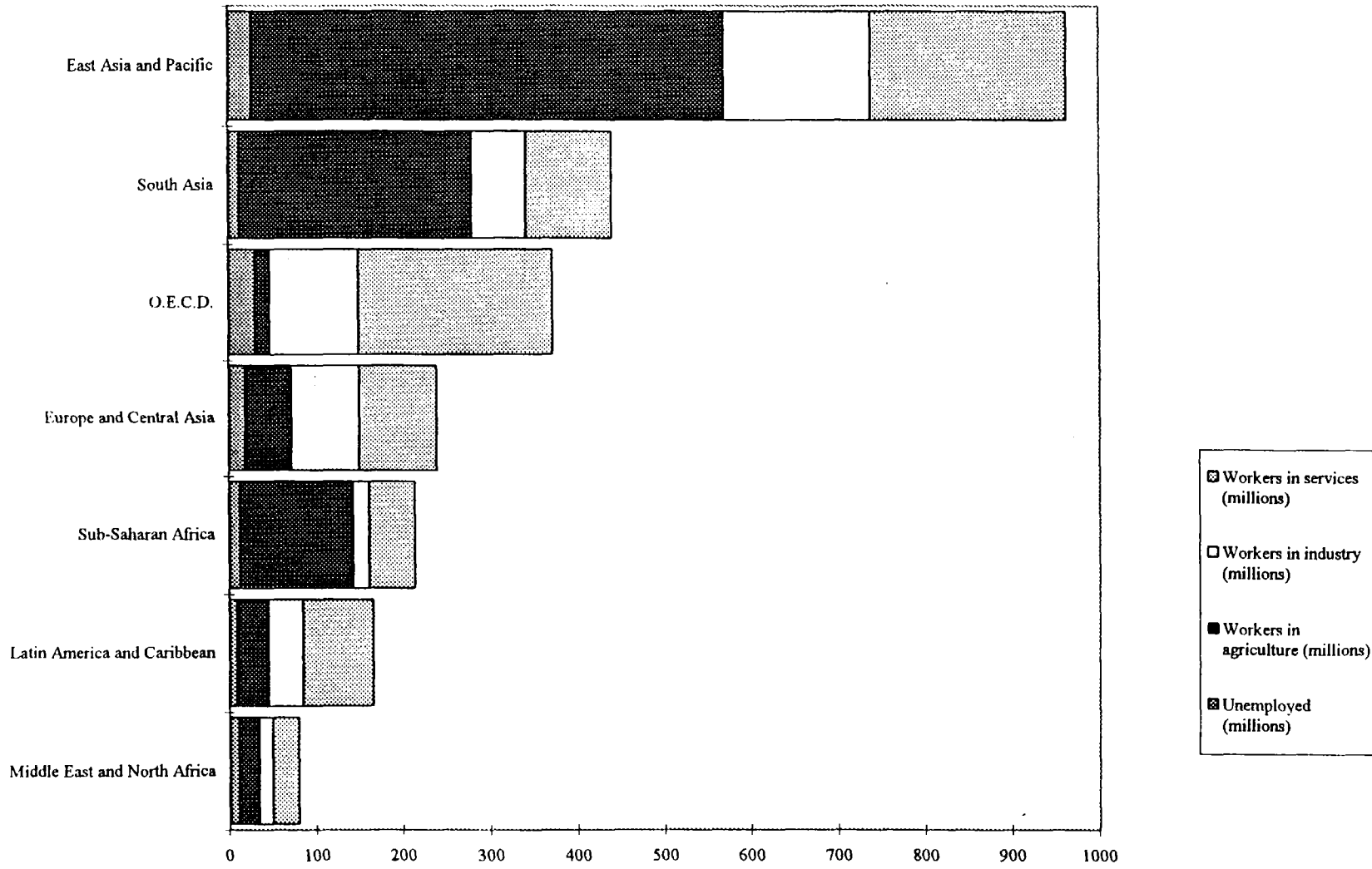


Figure 6: Distribution of the labor force (ages 15-64) by region

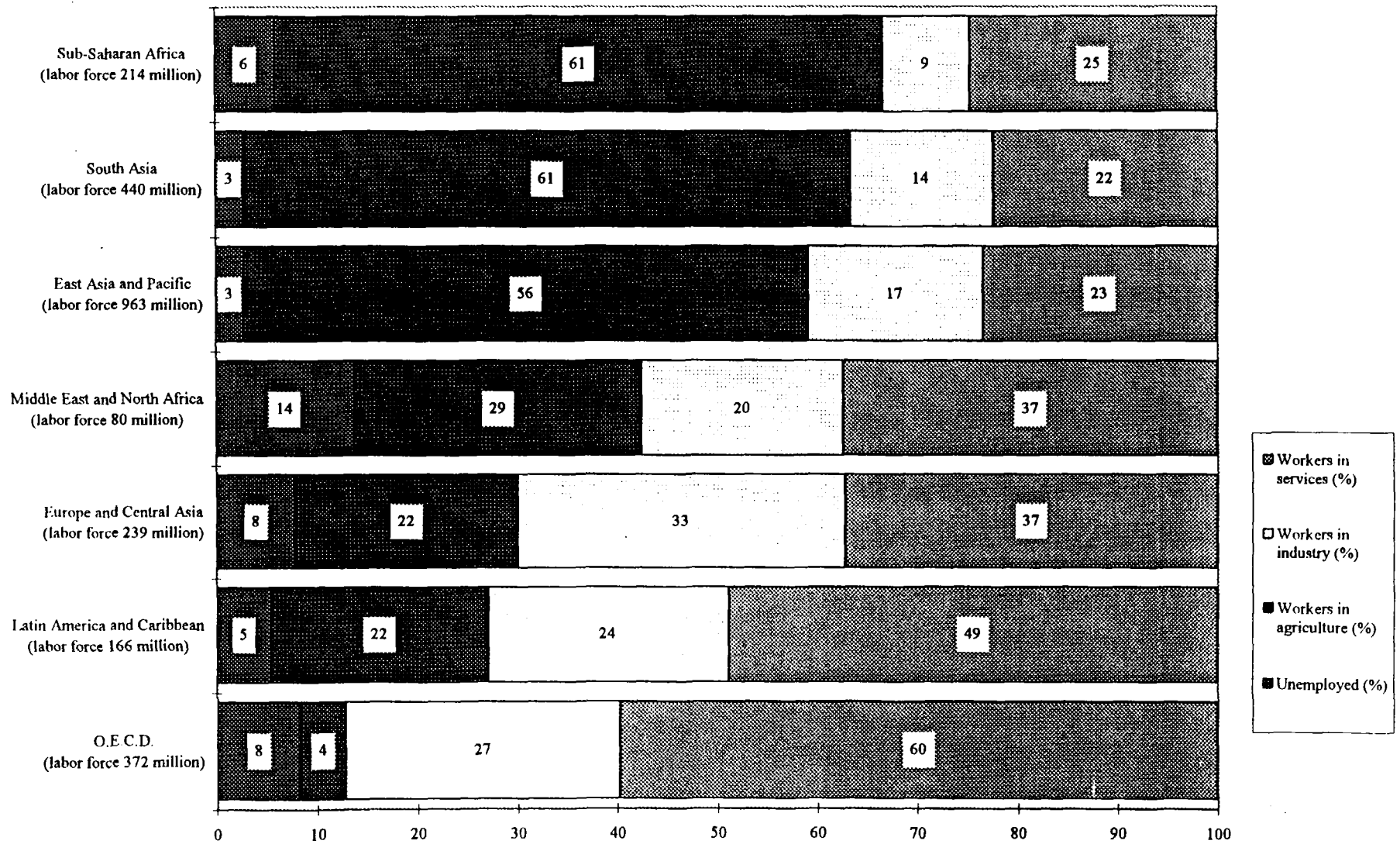


Figure 7: Distribution of the labor force (ages 15-64) by region

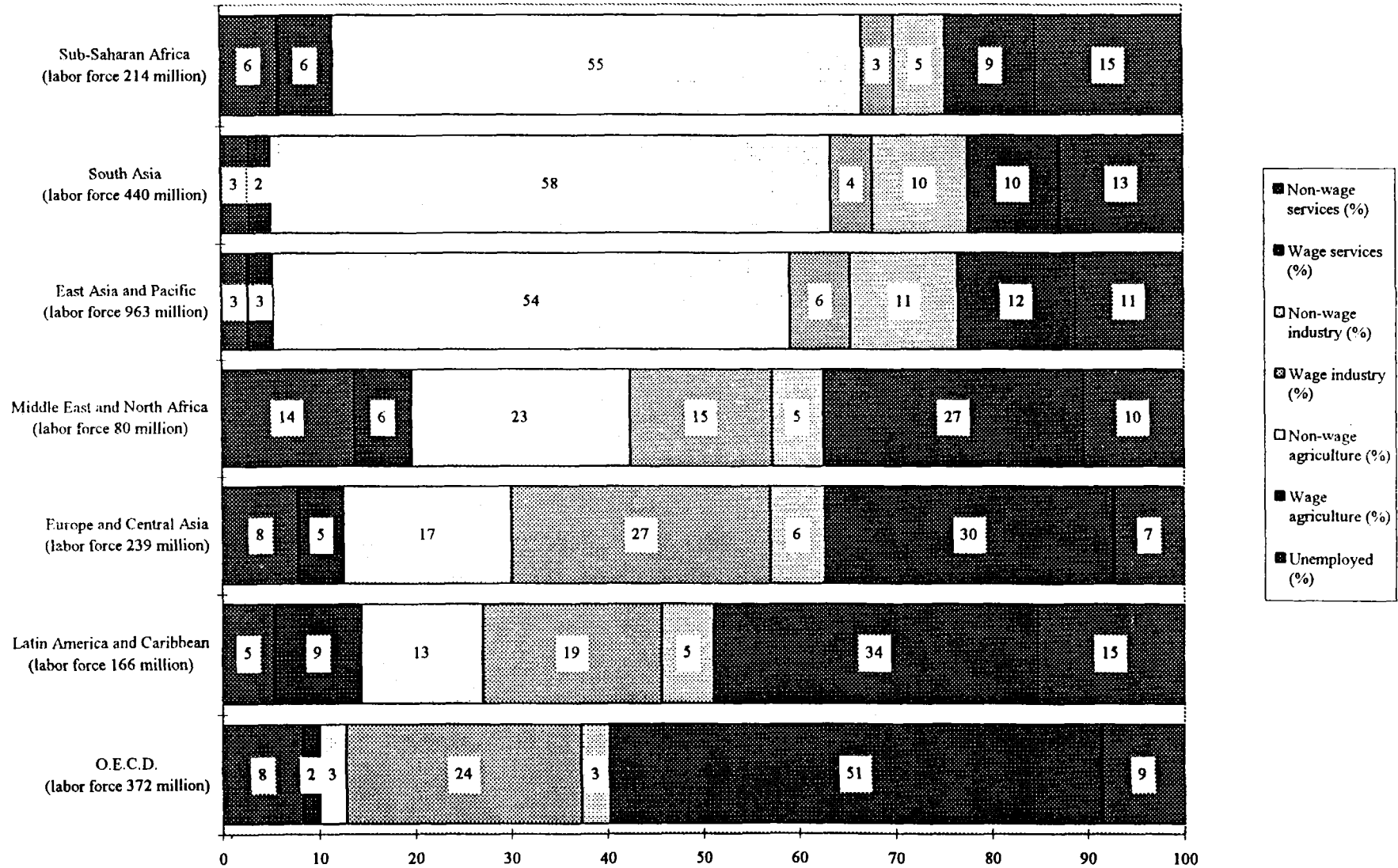


Table 1: Labor supply estimates for 1995

| | Working age population in 1995 (thousands) | Labor force ages 15-64 in 1995 (thousands) | Labor force participation rate in 1995 (%) | Income group |
|--|--|--|--|--------------|
| East Asia and the Pacific | | | | |
| Guam | 95 | 53 | 55.8 | middle |
| French Polynesia | 137 | 75 | 54.7 | high |
| Brunei | 178 | 119 | 66.9 | high |
| Solomon Islands | 199 | 156 | 78.4 | middle |
| Vanuatu | 201 | 144 | 71.6 | middle |
| Macao | 356 | 303 | 85.1 | middle |
| East Timor | 459 | 257 | 56.0 | low |
| Fiji | 466 | 261 | 56.0 | middle |
| Mongolia | 1,412 | 1,157 | 81.9 | low |
| Singapore | 1,436 | . | . | high |
| Papua New Guinea | 2,500 | 1,846 | 73.8 | middle |
| Lao PDR | 2,549 | 2,209 | 86.7 | low |
| Hong Kong | 4,198 | 2,900 | 69.1 | high |
| Cambodia | 5,230 | 3,713 | 71.0 | low |
| Malaysia | 11,709 | 8,369 | 71.5 | middle |
| Korea, Dem. Rep. | 15,863 | 11,085 | 69.9 | middle |
| Myanmar | 27,235 | 19,512 | 71.6 | low |
| Korea, Rep. | 32,200 | 18,918 | 58.8 | middle |
| Thailand | 38,637 | 29,625 | 76.7 | middle |
| Philippines | 40,387 | 25,070 | 62.1 | middle |
| Viet Nam | 42,912 | 36,295 | 84.6 | low |
| Indonesia | 125,299 | 76,928 | 61.4 | middle |
| China | 822,508 | 723,283 | 87.9 | low |
| Europe and Central Asia | | | | |
| Lichtenstein | 39 | 27 | 69.2 | high |
| Andorra | 66 | 41 | 62.1 | high |
| Channel Islands | 167 | 128 | 76.7 | high |
| Malta | 245 | 139 | 56.7 | middle |
| Cyprus | 473 | 332 | 70.2 | high |
| Estonia | 1,030 | 766 | 74.4 | middle |
| Latvia | 1,730 | 1,291 | 74.6 | middle |
| Lithuania | 2,470 | 1,840 | 74.5 | middle |
| Bulgaria | 5,895 | 4,232 | 71.8 | middle |
| Portugal | 6,649 | 4,353 | 65.5 | middle |
| Greece | 6,893 | 3,731 | 54.1 | middle |
| Hungary | 7,088 | 5,275 | 74.4 | middle |
| Czechoslovakia, former | 10,640 | 8,457 | 79.5 | middle |
| Romania | 15,611 | 11,486 | 73.6 | middle |
| Yugoslavia, former | 16,348 | 10,646 | 65.1 | middle |
| Poland | 25,420 | 19,665 | 77.4 | middle |
| Turkey | 38,123 | 25,924 | 68.0 | middle |
| USSR, former | 184,792 | 140,984 | 76.3 | middle |
| Latin America and the Caribbean | | | | |
| Falkland Islands | 75 | 40 | 53.3 | middle |
| Bermuda | 80 | 60 | 75.0 | high |
| Belize | 124 | 70 | 56.5 | middle |

Table I continued

| | Working age population in 1995 (thousands) | Labor Force ages 15-64 in 1995 (thousands) | Labor force participation rate in 1995 | Income group |
|-------------------------------------|---|---|--|-----------------|
| Barbados | 169 | 139 | 82.3 | middle |
| Bahamas | 190 | 108 | 56.8 | high |
| Martinique | 246 | 174 | 70.7 | middle |
| Guadeloupe | 274 | 192 | 70.1 | middle |
| Surinam | 284 | 162 | 57.0 | middle |
| Guyana | 532 | 317 | 59.6 | low |
| Trinidad and Tobago | 790 | 514 | 65.1 | middle |
| Jamaica | 1,595 | 1,278 | 80.1 | middle |
| Panama | 1,643 | 968 | 58.9 | middle |
| Uruguay | 2,018 | 1,223 | 60.6 | middle |
| Costa Rica | 2,066 | 1,171 | 56.7 | middle |
| Nicaragua | 2,259 | 1,326 | 58.7 | low |
| Puerto Rico | 2,396 | 1,231 | 51.4 | middle |
| Paraguay | 2,777 | 1,584 | 57.0 | middle |
| El Salvador | 3,184 | 1,808 | 56.8 | middle |
| Honduras | 3,188 | 1,785 | 56.0 | low |
| Haiti | 4,010 | 2,594 | 64.7 | low |
| Bolivia | 4,551 | 2,323 | 51.0 | middle |
| Dominican Rep. | 4,741 | 2,525 | 53.3 | middle |
| Guatemala | 5,544 | 2,884 | 52.0 | middle |
| Ecuador | 6,965 | 3,461 | 49.7 | middle |
| Cuba | 7,524 | 4,744 | 63.1 | middle |
| Chile | 8,991 | 5,190 | 57.7 | middle |
| Venezuela | 13,135 | 7,505 | 57.1 | middle |
| Peru | 14,414 | 7,489 | 52.0 | middle |
| Argentina | 21,271 | 11,914 | 56.0 | middle |
| Colombia | 21,975 | 11,341 | 51.6 | middle |
| Mexico | 56,158 | 32,068 | 57.1 | middle |
| Brazil | 101,150 | 58,021 | 57.4 | middle |
| Middle East and North Africa | | | | |
| Qatar | 337 | 216 | 64.1 | high |
| Bahrain | 363 | 237 | 65.3 | middle |
| Kuwait | 919 | 592 | 64.4 | high |
| Oman | 923 | 479 | 51.9 | middle |
| United Arab Emirates | 1,229 | 863 | 70.2 | high |
| Lebanon | 1,826 | 933 | 51.1 | middle |
| Jordan | 2,555 | 1,077 | 42.2 | middle |
| Libya | 2,811 | 1,309 | 46.6 | middle |
| Israel | 3,620 | 2,302 | 63.6 | high |
| Tunisia | 5,396 | 2,983 | 55.3 | middle |
| Yemen, Rep. | 6,715 | 3,240 | 48.3 | low |
| Syrian Arab Rep. | 7,328 | 3,545 | 48.4 | middle |
| Saudi Arabia | 9,740 | 5,010 | 51.4 | middle |
| Iraq | 11,310 | 5,821 | 51.5 | middle |
| Algeria | 15,820 | 6,600 | 41.7 | middle |
| Morocco | 16,211 | 8,994 | 55.5 | middle |
| Iran, Islamic Rep. | 33,534 | 19,501 | 58.2 | middle |
| Egypt, Arab Rep. | 33,869 | 16,118 | 47.6 | low |

Table 1 continued

| | Working age population in 1995 (thousands) | Labor Force ages 15-64 in 1995 (thousands) | Labor force participation rate in 1995 | Income group |
|---------------------------|---|---|--|-----------------|
| High-income OECD | | | | |
| Iceland | 173 | 142 | 82.1 | high |
| Luxembourg | 264 | 162 | 61.4 | high |
| Ireland | 2,211 | 1,318 | 59.6 | high |
| New Zealand | 2,337 | 1,611 | 68.9 | high |
| Norway | 2,808 | 2,211 | 78.7 | high |
| Finland | 3,380 | 2,579 | 76.3 | high |
| Denmark | 3,503 | 2,883 | 82.3 | high |
| Austria | 3,642 | . | . | high |
| Switzerland | 4,709 | 3,409 | 72.4 | high |
| Sweden | 5,600 | 4,605 | 82.2 | high |
| Belgium | 6,658 | 4,152 | 62.4 | high |
| Netherlands | 10,592 | 6,473 | 61.1 | high |
| Australia | 12,242 | 8,651 | 70.7 | high |
| Canada | 19,193 | 13,961 | 72.7 | high |
| Spain | 26,832 | 14,269 | 53.2 | high |
| United Kingdom | 37,598 | 28,231 | 75.1 | high |
| France | 37,734 | 26,361 | 69.9 | high |
| Italy | 39,951 | 23,122 | 57.9 | high |
| Germany | 55,309 | 39,874 | 72.1 | high |
| Japan | 87,167 | 59,823 | 68.6 | high |
| United States | 172,328 | 125,684 | 72.9 | high |
| South Asia | | | | |
| Maldives | 129 | 86 | 66.7 | middle |
| Bhutan | 964 | 675 | 70.0 | low |
| Sri Lanka | 11,706 | 6,569 | 56.1 | low |
| Nepal | 11,900 | 8,047 | 67.6 | low |
| Afghanistan | 13,309 | 6,403 | 48.1 | low |
| Pakistan | 72,119 | 39,352 | 54.6 | low |
| Bangladesh | 72,677 | 34,181 | 47.0 | low |
| India | 560,958 | 344,304 | 61.4 | low |
| Sub-Saharan Africa | | | | |
| Seychelles | 33 | 27 | 81.8 | middle |
| Sao Tome and Principe | 72 | 46 | 63.9 | low |
| Western Sahara | 159 | 80 | 50.3 | low |
| Equatorial Guinea | 210 | 149 | 71.0 | low |
| Cape Verde | 222 | 148 | 66.7 | middle |
| Djibouti | 264 | 191 | 72.4 | middle |
| Comores | 319 | 253 | 79.3 | low |
| Reunion | 422 | 274 | 64.9 | middle |
| Swaziland | 466 | 298 | 64.0 | middle |
| Gambia, The | 520 | 386 | 74.2 | low |
| Guinea-Bissau | 582 | 429 | 73.7 | low |
| Botswana | 743 | 429 | 57.7 | middle |
| Mauritius | 763 | 442 | 57.9 | middle |
| Gabon | 797 | 491 | 61.6 | middle |
| Namibia | 872 | 483 | 55.4 | middle |
| Lesotho | 1,094 | 806 | 73.7 | low |

Table 1 continued

| | Working age population in 1995 (thousands) | Labor Force ages 15-64 in 1995 (thousands) | Labor force participation rate in 1995 | Income group |
|----------------------|--|--|--|--------------|
| Mauritania | 1,212 | 665 | 54.9 | low |
| Congo | 1,321 | 923 | 69.9 | middle |
| Liberia | 1,531 | 933 | 60.9 | low |
| Central African Rep. | 1,750 | 1,406 | 80.3 | low |
| Togo | 2,116 | 1,416 | 66.9 | low |
| Sierra Leone | 2,463 | 1,578 | 64.1 | low |
| Benin | 2,692 | 2,221 | 82.5 | low |
| Burundi | 3,217 | 2,801 | 87.1 | low |
| Guinea | 3,370 | 2,606 | 77.3 | low |
| Chad | 3,371 | 1,899 | 56.3 | low |
| Rwanda | 3,985 | 3,502 | 87.9 | low |
| Senegal | 4,403 | 3,059 | 69.5 | middle |
| Niger | 4,499 | 3,920 | 87.1 | low |
| Zambia | 4,622 | 2,864 | 62.0 | low |
| Somalia | 5,069 | 3,710 | 73.2 | low |
| Burkina Faso | 5,383 | 4,611 | 85.7 | low |
| Mali | 5,399 | 2,851 | 52.8 | low |
| Malawi | 5,454 | 4,085 | 74.9 | low |
| Angola | 5,533 | 3,978 | 71.9 | middle |
| Zimbabwe | 6,071 | 3,722 | 61.3 | low |
| Cameroon | 6,958 | 4,432 | 63.7 | middle |
| Cote d'Ivoire | 6,967 | 5,032 | 72.2 | low |
| Madagascar | 7,277 | 5,265 | 72.4 | low |
| Mozambique | 8,486 | 7,259 | 85.5 | low |
| Ghana | 9,045 | 5,746 | 63.5 | low |
| Uganda | 9,970 | 7,582 | 76.1 | low |
| Kenya | 13,845 | 9,177 | 66.3 | low |
| Sudan | 15,238 | 8,675 | 56.9 | low |
| Tanzania | 15,242 | 12,110 | 79.5 | low |
| Zaire | 21,485 | 14,658 | 68.2 | low |
| South Africa | 24,994 | 14,526 | 58.1 | middle |
| Ethiopia | 29,401 | 21,201 | 72.1 | low |
| Nigeria | 63,988 | 40,679 | 63.6 | low |

Source: ILO 1986 with ILO data updates

Table 2: Unemployment rates

| | Year | Unemployment rate | Working age population in 1995* (thousands) | Source | Income group |
|--|------|-------------------|---|--------|--------------|
| East Asia and the Pacific | | | | | |
| Guam | 1990 | 2.8 | 95 | r | middle |
| Fiji | 1991 | 5.9 | 466 | r | middle |
| Singapore | 1991 | 1.9 | 1,436 | r | high |
| Hong Kong | 1991 | 1.8 | 4,198 | r | high |
| Malaysia | 1987 | 8.2 | 11,709 | r | middle |
| Korea, Rep. | 1991 | 2.4 | 32,200 | w | middle |
| Thailand | 1987 | 5.8 | 38,637 | r | middle |
| Philippines | 1991 | 9.7 | 40,387 | w | middle |
| Indonesia | 1991 | 2.7 | 125,299 | w | middle |
| China | 1991 | 2.3 | 822,508 | w | low |
| Europe and Central Asia | | | | | |
| Cyprus | 1991 | 3.0 | 469 | r | high |
| Estonia | 1993 | 2.6 | 1,030 | s | middle |
| Slovenia | 1995 | 14.5 | 1,363 | s | middle |
| Macedonia, FYR | 1993 | 28.6 | 1,473 | s | middle |
| Latvia | 1993 | 5.3 | 1,730 | s | middle |
| Armenia | 1993 | 5.8 | 2,247 | s | low |
| Albania | 1994 | 18.3 | 2,316 | s | low |
| Lithuania | 1993 | 1.4 | 2,470 | s | middle |
| Croatia | 1994 | 12.8 | 3,149 | s | middle |
| Slovak Rep. | 1994 | 14.8 | 3,506 | s | middle |
| Georgia | 1992 | 5.4 | 3,733 | s | low |
| Bulgaria | 1993 | 16.0 | 5,895 | s | middle |
| Portugal | 1995 | 6.9 | 6,649 | o | middle |
| Greece | 1995 | 11.0 | 6,893 | o | middle |
| Belarus | 1993 | 1.5 | 6,965 | s | middle |
| Czech Rep. | 1994 | 3.1 | 6,967 | s | middle |
| Yugoslavia, Fed. Rep. | 1990 | 16.4 | 7,083 | r | middle |
| Hungary | 1993 | 10.9 | 7,088 | s | middle |
| Kazakstan | 1993 | 9.3 | 11,135 | s | middle |
| Uzbekistan | 1993 | 0.2 | 12,860 | s | middle |
| Romania | 1993 | 10.2 | 15,611 | s | middle |
| Poland | 1994 | 16.0 | 25,420 | s | middle |
| Ukraine | 1993 | 0.4 | 34,820 | s | middle |
| Turkey | 1995 | 14.0 | 38,123 | o | middle |
| Russian Fed. | 1993 | 5.5 | 101,575 | s | middle |
| Latin America and the Caribbean | | | | | |
| Barbados | 1991 | 17.1 | 169 | r | middle |
| Bahamas | 1989 | 11.7 | 190 | r | high |
| Trinidad and Tobago | 1991 | 18.5 | 790 | r | middle |
| Jamaica | 1990 | 15.7 | 1,595 | r | middle |
| Panama | 1991 | 15.7 | 1,643 | r | middle |
| Uruguay | 1991 | 11.9 | 2,018 | w | middle |
| Costa Rica | 1991 | 5.5 | 2,066 | r | middle |
| Nicaragua | 1991 | 14.0 | 2,259 | w | low |
| Puerto Rico | 1991 | 16.0 | 2,396 | r | middle |

Table 2 continued

| | Year | Unemployment rate | Working age population in 1995 (thousands) | Source | Income group |
|-------------------------------------|------|-------------------|--|--------|--------------|
| Paraguay | 1991 | 5.1 | 2,777 | r | middle |
| El Salvador | 1991 | 7.9 | 3,184 | w | middle |
| Honduras | 1991 | 3.1 | 3,188 | w | low |
| Haiti | 1990 | 10.9 | 4,010 | r | low |
| Bolivia | 1991 | 7.3 | 4,551 | w | middle |
| Ecuador | 1991 | 5.8 | 6,965 | w | middle |
| Chile | 1991 | 4.4 | 8,991 | w | middle |
| Venezuela | 1991 | 9.5 | 13,135 | r | middle |
| Peru | 1991 | 5.8 | 14,414 | r | middle |
| Argentina | 1989 | 7.3 | 21,271 | r | middle |
| Colombia | 1991 | 9.1 | 21,975 | w | middle |
| Mexico | 1991 | 2.6 | 56,158 | r | middle |
| Brazil | 1988 | 3.9 | 101,150 | r | middle |
| Middle East and North Africa | | | | | |
| Jordan | 1991 | 18.8 | 2,555 | s | middle |
| Israel | 1991 | 11.2 | 3,620 | w | high |
| Tunisia | 1993 | 16.1 | 5,396 | s | middle |
| Yemen, Rep. | 1992 | 12.3 | 6,715 | s | low |
| Syrian Arab Rep. | 1991 | 6.8 | 7,328 | w | middle |
| Algeria | 1991 | 21.0 | 15,820 | s | middle |
| Morocco | 1991 | 12.1 | 16,211 | s | middle |
| Iran, Islamic Rep. | 1993 | 12.0 | 33,534 | s | middle |
| Egypt, Arab Rep. | 1992 | 14.0 | 33,869 | s | low |
| High-income OECD | | | | | |
| Iceland | 1995 | 6.2 | 173 | o | high |
| Luxembourg | 1995 | 2.5 | 264 | o | high |
| Ireland | 1995 | 15.4 | 2,211 | o | high |
| New Zealand | 1995 | 8.1 | 2,337 | o | high |
| Norway | 1995 | 5.2 | 2,808 | o | high |
| Finland | 1995 | 17.7 | 3,380 | o | high |
| Denmark | 1995 | 10.5 | 3,503 | o | high |
| Switzerland | 1995 | 3.8 | 4,709 | o | high |
| Austria | 1995 | 4.6 | 5,000 | o | high |
| Sweden | 1995 | 7.4 | 5,600 | o | high |
| Belgium | 1995 | 12.7 | 6,658 | o | high |
| Netherlands | 1995 | 9.5 | 10,592 | o | high |
| Australia | 1995 | 9.2 | 12,242 | o | high |
| Canada | 1995 | 10.2 | 19,193 | o | high |
| Spain | 1995 | 24.4 | 26,832 | o | high |
| United Kingdom | 1995 | 8.9 | 37,598 | o | high |
| France | 1995 | 12.2 | 37,734 | o | high |
| Italy | 1995 | 11.9 | 39,951 | o | high |
| Germany | 1995 | 10.0 | 55,309 | o | high |
| Japan | 1995 | 2.8 | 87,167 | o | high |
| United States | 1995 | 5.8 | 172,328 | o | high |

Table 2 continued

| | Year | Unemployment rate | Working age population in 1995 (thousands) | Source | Income group |
|---------------------------|------|-------------------|--|--------|--------------|
| South Asia | | | | | |
| Sri Lanka | 1991 | 14.1 | 11,706 | w | low |
| Pakistan | 1991 | 6.3 | 72,119 | w | low |
| Bangladesh | 1989 | 1.2 | 72,677 | s | low |
| India | 1991 | 2.5 | 560,958 | s | low |
| Sub-Saharan Africa | | | | | |
| Seychelles | 1985 | 22.5 | 33 | r | middle |
| Reunion | 1990 | 23.7 | 422 | r | middle |
| Cote d'Ivoire | 1986 | 2.5 | 6,967 | r | low |
| Ghana | 1989 | 1.6 | 9,045 | s | low |
| Kenya | 1986 | 6.9 | 13,845 | r | low |
| South Africa | 1993 | 12.8 | 24,994 | s | middle |
| Nigeria | 1989 | 4.0 | 63,988 | s | low |

Note: Working age population for countries of the former Yugoslavia, former Czechoslovakia, and former Soviet Union are calculated by a forward projection of the 1980-90 growth rate, see text for details.

Sources: r=Topel, Levy and Rama 1994, w=ILO 1994, o=OECD 1994, s=Country sources, see text for details

Table 3: Distribution of the work force across sectors

| | Year | Work force in agriculture (%) | Work force in industry (%) | Work force in services (%) | Working age population in 1995* (thousands) | Source | Income group |
|----------------------------------|------|--|-------------------------------------|-------------------------------------|--|--------|-----------------|
| East Asia and the Pacific | | | | | | | |
| Guam | 1980 | 0.9 | 15.0 | 84.2 | 95 | c | middle |
| French Polynesia | 1988 | 12.8 | 10.2 | 77.0 | 137 | c | high |
| Brunei | 1990 | 2.0 | 24.4 | 73.6 | 178 | i | high |
| Macao | 1990 | 0.2 | 42.5 | 57.4 | 356 | l | middle |
| Fiji | 1986 | 47.7 | 15.0 | 37.4 | 466 | c | middle |
| Mongolia | 1990 | 32.0 | 22.5 | 45.5 | 1,412 | i | low |
| Singapore | 1991 | 0.3 | 35.2 | 64.6 | 1,436 | l | high |
| Lao PDR | 1990 | 78.1 | 6.3 | 15.6 | 2,549 | i | low |
| Hong Kong | 1991 | 0.8 | 34.9 | 64.3 | 4,198 | h | high |
| Cambodia | 1990 | 73.9 | 7.5 | 18.6 | 5,230 | i | low |
| Malaysia | 1990 | 27.3 | 23.1 | 49.5 | 11,709 | i | middle |
| Korea, Dem. Rep. | 1990 | 38.1 | 31.4 | 30.5 | 15,863 | i | middle |
| Myanmar | 1990 | 73.3 | 9.8 | 16.9 | 27,235 | i | low |
| Korea, Rep. | 1991 | 16.7 | 35.6 | 47.7 | 32,200 | l | middle |
| Thailand | 1990 | 64.1 | 14.0 | 22.0 | 38,637 | i | middle |
| Philippines | 1991 | 45.3 | 16.0 | 38.7 | 40,387 | h | middle |
| Viet Nam | 1990 | 71.3 | 14.0 | 14.7 | 42,912 | i | low |
| Indonesia | 1993 | 50.5 | 15.8 | 33.8 | 125,299 | s | middle |
| China | 1993 | 61.0 | 18.0 | 21.0 | 822,508 | s | low |
| Europe and Central Asia | | | | | | | |
| Malta | 1990 | 2.6 | 34.6 | 62.9 | 245 | i | middle |
| Cyprus | 1990 | 13.6 | 30.0 | 56.4 | 469 | i | high |
| Estonia | 1990 | 14.4 | 41.3 | 44.3 | 1,030 | i | middle |
| Slovenia | 1990 | 5.7 | 46.2 | 48.2 | 1,363 | i | middle |
| Macedonia, FYR | 1990 | 21.5 | 40.4 | 38.1 | 1,473 | i | middle |
| Latvia | 1990 | 15.8 | 39.8 | 44.5 | 1,730 | i | middle |
| Armenia | 1990 | 17.6 | 43.1 | 39.3 | 2,247 | i | low |
| Albania | 1990 | 54.6 | 23.2 | 22.3 | 2,316 | i | low |
| Turkmenistan | 1990 | 37.2 | 22.8 | 39.9 | 2,331 | i | middle |
| Lithuania | 1990 | 18.5 | 40.6 | 40.9 | 2,470 | i | middle |
| Kyrgyz Rep. | 1990 | 32.1 | 26.7 | 41.2 | 2,758 | i | middle |
| Moldova | 1990 | 33.0 | 29.9 | 37.1 | 2,864 | i | middle |
| Croatia | 1990 | 16.1 | 33.8 | 50.2 | 3,149 | i | middle |
| Bosnia and Herz | 1990 | 11.3 | 47.5 | 41.2 | 3,236 | i | low |
| Tajikistan | 1990 | 40.7 | 23.4 | 35.9 | 3,255 | i | low |
| Slovak Rep. | 1990 | 12.1 | 33.3 | 54.6 | 3,506 | i | middle |
| Georgia | 1990 | 26.0 | 31.4 | 42.5 | 3,733 | i | low |
| Azerbaijan | 1990 | 31.0 | 28.7 | 40.3 | 4,831 | i | middle |
| Bulgaria | 1990 | 13.5 | 48.3 | 38.3 | 5,895 | i | middle |
| Portugal | 1990 | 17.8 | 34.0 | 48.2 | 6,649 | i | middle |
| Greece | 1990 | 23.2 | 27.7 | 49.1 | 6,893 | l | middle |
| Belarus | 1990 | 19.7 | 40.3 | 40.0 | 6,965 | i | middle |
| Czech Rep. | 1990 | 11.2 | 45.4 | 43.4 | 6,967 | i | middle |
| Yugoslavia, Fed. Rep. | 1990 | 29.7 | 33.1 | 37.2 | 7,083 | i | middle |
| Hungary | 1991 | 38.6 | 15.5 | 45.9 | 7,088 | o | middle |
| Kazakstan | 1990 | 22.2 | 31.5 | 46.3 | 11,135 | i | middle |
| Uzbekistan | 1990 | 34.9 | 25.1 | 40.0 | 12,860 | i | middle |

Table 3 continued

| | Year | Work force in agriculture (%) | Work force in industry (%) | Work force in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|--|------|--|-------------------------------------|-------------------------------------|---|--------|-----------------|
| Romania | 1990 | 28.6 | 43.1 | 28.4 | 15,611 | o | middle |
| Poland | 1990 | 27.5 | 35.8 | 36.7 | 25,420 | i | middle |
| Ukraine | 1990 | 20.0 | 39.8 | 40.2 | 34,820 | i | middle |
| Turkey | 1991 | 48.9 | 20.1 | 31.0 | 38,123 | l | middle |
| Russian Fed. | 1990 | 13.7 | 41.7 | 44.6 | 101,575 | i | middle |
| Latin America and the Caribbean | | | | | | | |
| Barbados | 1982 | 10.0 | 10.9 | 79.1 | 169 | l | middle |
| Bahamas | 1980 | 5.6 | 16.4 | 77.9 | 190 | c | high |
| Suriname | 1980 | 9.2 | 21.8 | 69.0 | 284 | c | middle |
| Trinidad and Tobago | 1991 | 10.4 | 32.5 | 57.1 | 790 | l | middle |
| Panama | 1989 | 27.0 | 16.0 | 57.0 | 1,643 | l | middle |
| Uruguay | 1985 | 14.7 | 25.8 | 59.6 | 2,018 | c | middle |
| Costa Rica | 1991 | 25.1 | 26.9 | 48.0 | 2,066 | h | middle |
| Puerto Rico | 1992 | 3.6 | 26.3 | 70.1 | 2,396 | l | middle |
| El Salvador | 1991 | 10.7 | 29.2 | 60.2 | 3,184 | h | middle |
| Honduras | 1991 | 36.9 | 20.9 | 42.3 | 3,188 | l | low |
| Haiti | 1990 | 65.6 | 8.8 | 25.6 | 4,010 | o | low |
| Bolivia | 1991 | 1.2 | 24.8 | 74.0 | 4,551 | h | middle |
| Dominican Rep. | 1981 | 23.6 | 18.2 | 58.3 | 4,741 | c | middle |
| Guatemala | 1989 | 49.9 | 18.3 | 31.8 | 5,544 | h | middle |
| Ecuador | 1990 | 31.2 | 18.1 | 50.7 | 6,965 | c | middle |
| Cuba | 1981 | 32.2 | 40.0 | 27.8 | 7,524 | c | middle |
| Chile | 1991 | 19.1 | 26.3 | 54.6 | 8,991 | l | middle |
| Venezuela | 1991 | 11.4 | 27.6 | 61.0 | 13,135 | h | middle |
| Argentina | 1980 | 12.0 | 31.4 | 56.6 | 21,271 | c | middle |
| Mexico | 1990 | 22.7 | 27.8 | 49.6 | 56,158 | c | middle |
| Brazil | 1988 | 24.2 | 23.3 | 52.4 | 101,150 | h | middle |
| Middle East and North Africa | | | | | | | |
| Qatar | 1990 | 2.7 | 32.0 | 65.4 | 337 | i | high |
| Bahrain | 1990 | 2.0 | 29.8 | 68.2 | 363 | i | middle |
| Kuwait | 1990 | 1.2 | 25.2 | 73.7 | 919 | i | high |
| Oman | 1990 | 44.5 | 23.8 | 31.7 | 923 | i | middle |
| United Arab Emirates | 1990 | 7.8 | 26.8 | 65.5 | 1,229 | i | high |
| Lebanon | 1990 | 7.3 | 31.0 | 61.7 | 1,826 | i | middle |
| Jordan | 1990 | 15.3 | 23.5 | 61.3 | 2,555 | i | middle |
| Libya | 1990 | 10.9 | 23.0 | 66.2 | 2,811 | i | middle |
| Israel | 1990 | 4.1 | 29.1 | 66.8 | 3,620 | i | high |
| Tunisia | 1990 | 28.1 | 32.8 | 39.1 | 5,396 | i | middle |
| Yemen, Rep. | 1990 | 61.0 | 16.8 | 22.2 | 6,715 | i | low |
| Syrian Arab Rep. | 1990 | 33.2 | 24.0 | 42.9 | 7,328 | i | middle |
| Saudi Arabia | 1990 | 19.2 | 19.8 | 61.0 | 9,740 | i | middle |
| Iraq | 1990 | 16.1 | 17.5 | 66.4 | 11,310 | i | middle |
| Algeria | 1990 | 26.1 | 31.3 | 42.6 | 15,820 | i | middle |
| Morocco | 1990 | 44.7 | 24.8 | 30.5 | 16,211 | i | middle |
| Iran, Islamic Rep. | 1990 | 38.8 | 22.5 | 38.7 | 33,534 | i | middle |
| Egypt, Arab Rep. | 1990 | 40.3 | 21.5 | 38.2 | 33,869 | i | low |

Table 3 continued

| | Year | Work force in agriculture (%) | Work force in industry (%) | Work force in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|---------------------------|------|--|-------------------------------------|-------------------------------------|---|--------|-----------------|
| High-income OECD | | | | | | | |
| Iceland | 1990 | 11.0 | 26.5 | 62.5 | 173 | i | high |
| Luxembourg | 1991 | 3.5 | 28.9 | 67.6 | 264 | l | high |
| Ireland | 1990 | 14.3 | 28.6 | 57.0 | 2,211 | i | high |
| New Zealand | 1991 | 10.2 | 23.7 | 66.2 | 2,337 | c | high |
| Norway | 1991 | 5.8 | 23.6 | 70.6 | 2,808 | l | high |
| Finland | 1991 | 8.2 | 30.1 | 61.7 | 3,380 | l | high |
| Denmark | 1990 | 5.4 | 27.7 | 67.0 | 3,503 | l | high |
| Switzerland | 1990 | 5.5 | 34.7 | 59.8 | 4,709 | i | high |
| Austria | 1990 | 7.8 | 37.6 | 54.7 | 5,000 | i | high |
| Sweden | 1991 | 3.2 | 28.2 | 68.6 | 5,600 | l | high |
| Belgium | 1990 | 2.6 | 27.7 | 69.7 | 6,658 | o | high |
| Netherlands | 1991 | 4.5 | 25.2 | 70.3 | 10,592 | l | high |
| Australia | 1991 | 5.2 | 24.4 | 70.4 | 12,242 | l | high |
| Canada | 1991 | 3.5 | 24.4 | 72.1 | 19,193 | l | high |
| Spain | 1991 | 10.7 | 32.8 | 56.6 | 26,832 | l | high |
| United Kingdom | 1990 | 2.1 | 28.7 | 69.2 | 37,598 | o | high |
| France | 1991 | 5.6 | 28.8 | 65.6 | 37,734 | o | high |
| Italy | 1991 | 8.4 | 32.0 | 59.5 | 39,951 | l | high |
| Germany | 1990 | 4.0 | 38.1 | 57.9 | 55,309 | i | high |
| Japan | 1991 | 6.7 | 34.4 | 58.9 | 87,167 | l | high |
| United States | 1991 | 2.9 | 25.8 | 71.3 | 172,328 | l | high |
| South Asia | | | | | | | |
| Maldives | 1990 | 32.3 | 31.0 | 36.7 | 129 | i | middle |
| Bhutan | 1990 | 94.1 | 0.9 | 5.0 | 964 | i | low |
| Sri Lanka | 1990 | 48.5 | 20.9 | 30.6 | 11,706 | i | low |
| Nepal | 1990 | 93.6 | 0.3 | 6.2 | 11,900 | i | low |
| Afghanistan | 1990 | 70.3 | 10.7 | 19.0 | 13,309 | i | low |
| Pakistan | 1992 | 47.5 | 19.8 | 32.7 | 72,119 | o | low |
| Bangladesh | 1989 | 65.5 | 15.5 | 19.6 | 72,677 | s | low |
| India | 1991 | 63.2 | 14.2 | 22.6 | 560,958 | s | low |
| Sub-Saharan Africa | | | | | | | |
| Seychelles | 1981 | 10.1 | 20.5 | 69.4 | 33 | o | middle |
| Sao Tome and Principe | 1981 | 59.8 | 7.6 | 32.6 | 72 | c | low |
| Equatorial Guinea | 1990 | 74.8 | 5.3 | 19.9 | 210 | i | low |
| Cape Verde | 1990 | 30.6 | 29.7 | 39.7 | 222 | i | middle |
| Comores | 1990 | 77.4 | 9.3 | 13.3 | 319 | i | low |
| Reunion | 1990 | 6.8 | 18.3 | 75.0 | 422 | i | middle |
| Swaziland | 1990 | 39.5 | 22.3 | 38.2 | 466 | i | middle |
| Gambia, The | 1990 | 81.9 | 7.6 | 10.5 | 520 | i | low |
| Guinea-Bissau | 1990 | 85.3 | 1.9 | 12.8 | 582 | i | low |
| Botswana | 1990 | 46.4 | 20.4 | 33.2 | 743 | i | middle |
| Mauritius | 1990 | 16.7 | 43.2 | 40.1 | 763 | i | middle |
| Gabon | 1990 | 51.5 | 15.9 | 32.6 | 797 | i | middle |
| Namibia | 1990 | 49.1 | 15.4 | 35.5 | 872 | i | middle |
| Lesotho | 1990 | 40.1 | 27.8 | 32.1 | 1,094 | i | low |
| Mauritania | 1990 | 55.2 | 10.4 | 34.4 | 1,212 | i | low |
| Congo | 1990 | 48.7 | 14.7 | 36.6 | 1,321 | i | middle |

Table 3 continued

| | Year | Work force in agriculture (%) | Work force in industry (%) | Work force in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|----------------------|------|--|-------------------------------------|-------------------------------------|---|--------|-----------------|
| Liberia | 1990 | 72.3 | 5.6 | 22.2 | 1,531 | i | low |
| Central African Rep. | 1990 | 80.2 | 3.5 | 16.3 | 1,750 | i | low |
| Togo | 1990 | 65.6 | 10.1 | 24.4 | 2,116 | i | low |
| Sierra Leone | 1990 | 67.4 | 15.3 | 17.2 | 2,463 | i | low |
| Benin | 1990 | 63.5 | 8.1 | 28.4 | 2,692 | i | low |
| Burundi | 1990 | 91.7 | 2.7 | 5.6 | 3,217 | i | low |
| Guinea | 1990 | 87.2 | 1.9 | 10.9 | 3,370 | i | low |
| Chad | 1990 | 83.2 | 4.2 | 12.6 | 3,371 | i | low |
| Rwanda | 1990 | 91.7 | 3.4 | 4.9 | 3,985 | i | low |
| Senegal | 1990 | 76.7 | 7.5 | 15.8 | 4,403 | i | middle |
| Niger | 1990 | 89.9 | 3.9 | 6.2 | 4,499 | i | low |
| Zambia | 1990 | 74.6 | 8.5 | 16.9 | 4,622 | i | low |
| Somalia | 1990 | 75.3 | 8.2 | 16.4 | 5,069 | i | low |
| Burkina Faso | 1990 | 92.4 | 1.8 | 5.8 | 5,383 | i | low |
| Mali | 1990 | 85.8 | 2.0 | 12.2 | 5,399 | i | low |
| Malawi | 1990 | 86.6 | 4.9 | 8.4 | 5,454 | i | low |
| Angola | 1990 | 74.5 | 8.1 | 17.4 | 5,533 | i | middle |
| Zimbabwe | 1990 | 68.2 | 8.3 | 23.5 | 6,071 | i | low |
| Cameroon | 1990 | 69.7 | 8.8 | 21.5 | 6,958 | i | middle |
| Cote d'Ivoire | 1990 | 59.9 | 9.6 | 30.5 | 6,967 | i | low |
| Madagascar | 1990 | 78.2 | 6.8 | 15.1 | 7,277 | i | low |
| Mozambique | 1990 | 82.7 | 8.0 | 9.3 | 8,486 | i | low |
| Ghana | 1990 | 59.3 | 13.0 | 27.7 | 9,045 | i | low |
| Uganda | 1990 | 84.5 | 4.7 | 10.7 | 9,970 | i | low |
| Kenya | 1990 | 79.5 | 7.3 | 13.2 | 13,845 | i | low |
| Sudan | 1990 | 69.5 | 8.5 | 22.1 | 15,238 | i | low |
| Tanzania | 1990 | 84.4 | 4.9 | 10.7 | 15,242 | i | low |
| Zaire | 1990 | 67.8 | 13.4 | 18.8 | 21,485 | i | low |
| South Africa | 1990 | 13.5 | 32.0 | 54.5 | 24,994 | i | middle |
| Ethiopia | 1990 | 86.2 | 2.1 | 11.7 | 29,401 | i | low |
| Nigeria | 1990 | 43.0 | 6.9 | 50.1 | 63,988 | i | low |

Note: Working age population for countries of the former Yugoslavia, former Czechoslovakia, and former Soviet Union are calculated by a forward projection of the 1980-90 growth rate, see text for details.

Sources: c,l,h,o= Census survey, Labor force survey, Household survey and Official Estimates from ILO various years; i=New ILO estimates for 1990; s=Country sources, see text for details.

Table 4a: OLS estimates of the share of each sector in wage employment

Share of agriculture in wage employment

| Variable | Coefficient | Std. Error | T-ratio | P> t |
|---------------------------------|-------------|------------|---------|------|
| Log of GNP per capita | 10.22 | 24.81 | 0.41 | 0.68 |
| Square of log of GNP per capita | -0.15 | 1.54 | -0.09 | 0.93 |
| Log of population | -3.89 | 2.87 | -1.35 | 0.18 |
| Square of log of population | 0.37 | 0.48 | 0.78 | 0.44 |
| Europe and Central Asia | 8.10 | 8.99 | 0.90 | 0.37 |
| Latin America and the Caribbean | 28.10 | 7.28 | 3.86 | 0.00 |
| Middle East and North Africa | 22.50 | 9.05 | 2.49 | 0.02 |
| High-income OECD | -1.44 | 10.59 | -0.14 | 0.89 |
| South Asia | 11.87 | 12.72 | 0.93 | 0.35 |
| Sub-Saharan Africa | 11.54 | 9.42 | 1.23 | 0.22 |
| Table 1a dummy | -3.34 | 8.64 | -0.39 | 0.70 |
| Constant | -46.30 | 99.93 | -0.46 | 0.64 |

| | |
|------------------------|--------|
| Number of observations | 99 |
| F(11, 87) | 4.6 |
| Prob > F | 0 |
| R-squared | 0.3675 |
| Adj R-squared | 0.2875 |
| Root MSE | 21.185 |

Share of industry in wage employment

| Variable | Coefficient | Std. Error | T-ratio | P> t |
|---------------------------------|-------------|------------|---------|------|
| Log of GNP per capita | 49.48 | 17.63 | 2.81 | 0.01 |
| Square of log of GNP per capita | -2.73 | 1.10 | -2.49 | 0.02 |
| Log of population | -0.64 | 2.04 | -0.31 | 0.75 |
| Square of log of population | -0.34 | 0.34 | -1.00 | 0.32 |
| Europe and Central Asia | 3.56 | 6.39 | 0.56 | 0.58 |
| Latin America and the Caribbean | -6.97 | 5.17 | -1.35 | 0.18 |
| Middle East and North Africa | -1.83 | 6.43 | -0.28 | 0.78 |
| High-income OECD | 4.76 | 7.53 | 0.63 | 0.53 |
| South Asia | -13.51 | 9.04 | -1.49 | 0.14 |
| Sub-Saharan Africa | -13.51 | 6.69 | -2.02 | 0.05 |
| Table 1a dummy | 3.79 | 6.14 | 0.62 | 0.54 |
| Constant | -132.55 | 71.03 | -1.87 | 0.07 |

| | |
|------------------------|--------|
| Number of observations | 99 |
| F(11, 87) | 10.55 |
| Prob > F | 0 |
| R-squared | 0.5716 |
| Adj R-squared | 0.5174 |
| Root MSE | 15.059 |

Share of services in wage employment

| Variable | Coefficient | Std. Error | T-ratio | P> t |
|---------------------------------|-------------|------------|---------|------|
| Log of GNP per capita | 41.34 | 14.63 | 2.83 | 0.01 |
| Square of log of GNP per capita | -2.24 | 0.91 | -2.46 | 0.02 |
| Log of population | -4.18 | 1.69 | -2.47 | 0.02 |
| Square of log of population | 0.29 | 0.28 | 1.04 | 0.30 |
| Europe and Central Asia | 12.75 | 5.30 | 2.41 | 0.02 |
| Latin America and the Caribbean | -1.35 | 4.29 | -0.32 | 0.75 |
| Middle East and North Africa | 7.34 | 5.33 | 1.38 | 0.17 |
| High-income OECD | 11.13 | 6.24 | 1.78 | 0.08 |
| South Asia | 3.53 | 7.50 | 0.47 | 0.64 |
| Sub-Saharan Africa | -9.73 | 5.55 | -1.75 | 0.08 |
| Table 1a dummy | -3.15 | 5.09 | -0.62 | 0.54 |
| Constant | -105.61 | 58.91 | -1.79 | 0.08 |

| | |
|------------------------|--------|
| Number of observations | 99 |
| F(11, 87) | 13.66 |
| Prob > F | 0 |
| R-squared | 0.6334 |
| Adj R-squared | 0.587 |
| Root MSE | 12.49 |

Table 4b: Distribution of the work force within sectors

| | Year | Share of wage employment in agriculture (%) | Share of wage employment in industry (%) | Share of wage employment in services (%) | Working age population in 1995* (thousands) | Source | Income group |
|----------------------------------|------|---|--|--|---|--------|--------------|
| East Asia and the Pacific | | | | | | | |
| Guam | 1980 | 84.4 | 98.1 | 96.6 | 95 | c | middle |
| French Polynesia | 1988 | 10.1 | 86.5 | 72.8 | 137 | c | high |
| Brunei | 1981 | 49.9 | 95.9 | 93.0 | 178 | c | high |
| Solomon Islands | . | 15.9 | 78.8 | 71.0 | 199 | e | middle |
| Vanuatu | . | 24.1 | 85.1 | 80.6 | 201 | e | middle |
| Macao | 1990 | 16.6 | 94.0 | 82.5 | 356 | l | middle |
| Fiji | 1986 | 4.5 | 85.3 | 82.1 | 466 | c | middle |
| Mongolia | . | 16.5 | 81.3 | 72.4 | 1,412 | e | low |
| Singapore | 1991 | 65.8 | 92.6 | 83.5 | 2,000 | l | high |
| Papua New Guinea | . | 12.2 | 76.9 | 67.2 | 2,500 | e | middle |
| Lao PDR | . | 0.7 | 55.8 | 48.8 | 2,549 | e | low |
| Hong Kong | 1991 | 36.5 | 92.1 | 86.7 | 4,198 | h | high |
| Cambodia | . | 0.0 | 62.3 | 46.9 | 5,230 | e | low |
| Malaysia | 1988 | 28.8 | 84.0 | 72.8 | 11,709 | l | middle |
| Korea, Dem. Rep. | . | 7.6 | 80.5 | 62.3 | 15,863 | e | middle |
| Myanmar | . | 0.0 | 54.3 | 46.2 | 27,235 | e | low |
| Korea, Rep. | 1991 | 7.4 | 85.7 | 60.9 | 32,200 | l | middle |
| Thailand | 1989 | 9.9 | 73.5 | 53.1 | 38,637 | l | middle |
| Philippines | 1991 | 21.1 | 76.7 | 60.9 | 40,387 | h | middle |
| Viet Nam | . | 0.0 | 56.5 | 42.2 | 42,912 | e | low |
| Indonesia | 1993 | 13.0 | 63.5 | 42.4 | 125,299 | s | middle |
| China | 1993 | 1.6 | 22.2 | 52.4 | 822,508 | s | low |
| Europe and Central Asia | | | | | | | |
| Andorra | . | 59.5 | 96.3 | 100.0 | 66 | e | high |
| Channel Islands | . | 54.6 | 97.1 | 100.0 | 167 | e | high |
| Malta | 1983 | 16.9 | 90.9 | 86.3 | 245 | o | middle |
| Cyprus | 1989 | 15.7 | 86.0 | 82.3 | 469 | o | high |
| Estonia | . | 31.9 | 91.5 | 92.2 | 1,030 | e | middle |
| Slovenia | . | 37.8 | 94.6 | 94.7 | 1,363 | e | middle |
| Macedonia, FYR | . | 21.4 | 88.7 | 82.2 | 1,473 | e | middle |
| Latvia | . | 27.4 | 88.3 | 88.0 | 1,730 | e | middle |
| Armenia | . | 18.9 | 78.2 | 78.2 | 2,247 | e | low |
| Albania | . | 23.4 | 84.3 | 83.8 | 2,316 | e | low |
| Turkmenistan | . | 22.5 | 83.5 | 82.8 | 2,331 | e | middle |
| Lithuania | . | 23.1 | 84.2 | 83.4 | 2,470 | e | middle |
| Kyrgyz Rep. | . | 18.8 | 78.5 | 78.1 | 2,758 | e | middle |
| Moldova | . | 22.6 | 83.9 | 82.9 | 2,864 | e | middle |
| Croatia | . | 19.1 | 87.5 | 79.4 | 3,149 | e | middle |
| Bosnia and Herz. | . | 7.3 | 67.2 | 61.9 | 3,236 | e | low |
| Tajikistan | . | 13.9 | 70.8 | 71.0 | 3,255 | e | low |
| Slovak Rep. | . | 25.3 | 87.3 | 85.6 | 3,506 | e | middle |
| Georgia | . | 18.5 | 78.6 | 77.8 | 3,733 | e | low |
| Azerbaijan | . | 16.7 | 76.2 | 75.3 | 4,831 | e | middle |
| Bulgaria | 1985 | 99.4 | 99.7 | 99.5 | 5,895 | c | middle |
| Portugal | 1990 | 19.0 | 87.1 | 78.3 | 6,649 | l | middle |

Table 4b continued

| | Year | Share of wage employment in agriculture (%) | Share of wage employment in industry (%) | Share of wage employment in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|------------------------------------|------|---|--|--|--|--------|--------------|
| Greece | 1990 | 4.2 | 70.7 | 65.3 | 6,893 | l | middle |
| Belarus | . | 27.0 | 88.9 | 86.3 | 6,965 | e | middle |
| Czech Rep. | 1980 | 44.1 | 98.8 | 99.0 | 6,967 | c | middle |
| Yugoslavia, Fed. Rep. | 1981 | 11.7 | 94.2 | 93.4 | 7,083 | c | middle |
| Hungary | 1991 | 44.4 | 75.1 | 81.3 | 7,088 | o | middle |
| Kazakistan | . | 21.6 | 83.5 | 81.2 | 11,135 | e | middle |
| Uzbekistan | . | 15.7 | 75.5 | 74.0 | 12,860 | e | middle |
| Romania | 1990 | 18.3 | 95.4 | 93.8 | 15,611 | o | middle |
| Poland | 1988 | 21.4 | 94.9 | 96.7 | 25,420 | c | middle |
| Ukraine | . | 20.7 | 80.9 | 79.3 | 34,820 | e | middle |
| Turkey | 1991 | 2.9 | 76.0 | 62.8 | 38,123 | l | middle |
| Russian Fed. | . | 22.7 | 79.5 | 79.9 | 101,575 | e | middle |
| Latin America and Caribbean | | | | | | | |
| Falkland Islands | 1986 | 71.9 | 93.3 | 95.5 | 75 | c | middle |
| Belize | . | 55.8 | 83.8 | 83.0 | 124 | e | middle |
| Barbados | 1982 | 85.5 | 83.3 | 89.9 | 169 | l | middle |
| Bahamas | 1980 | 58.2 | 80.1 | 91.5 | 190 | c | high |
| Martinique | . | 56.4 | 86.7 | 82.6 | 246 | e | middle |
| Guadeloupe | . | 56.0 | 86.7 | 82.1 | 274 | e | middle |
| Suriname | 1980 | 62.4 | 87.6 | 84.1 | 284 | c | middle |
| Guyana | . | 33.7 | 59.6 | 55.2 | 532 | e | low |
| Trinidad and Tobago | 1991 | 52.8 | 92.1 | 76.7 | 790 | l | middle |
| Jamaica | . | 44.7 | 74.5 | 71.2 | 1,595 | e | middle |
| Panama | 1989 | 29.2 | 70.4 | 78.5 | 1,643 | l | middle |
| Uruguay | 1985 | 56.8 | 78.1 | 73.0 | 2,018 | c | middle |
| Costa Rica | 1991 | 58.0 | 74.2 | 75.6 | 2,066 | h | middle |
| Nicaragua | . | 31.8 | 54.7 | 52.8 | 2,259 | e | low |
| Puerto Rico | 1992 | 59.0 | 93.7 | 83.2 | 2,396 | l | middle |
| Paraguay | . | 43.1 | 73.9 | 69.2 | 2,777 | e | middle |
| El Salvador | 1991 | 65.5 | 67.2 | 63.2 | 3,184 | h | middle |
| Honduras | 1991 | 32.1 | 64.7 | 49.6 | 3,188 | l | low |
| Haiti | 1990 | 6.2 | 53.1 | 39.7 | 4,010 | o | low |
| Bolivia | 1991 | 42.7 | 61.3 | 46.1 | 4,551 | h | middle |
| Dominican Rep. | 1981 | 19.4 | 77.9 | 62.4 | 4,741 | c | middle |
| Guatemala | 1989 | 34.5 | 60.7 | 63.8 | 5,544 | h | middle |
| Ecuador | 1990 | 26.2 | 46.6 | 52.0 | 6,965 | c | middle |
| Cuba | 1981 | 78.2 | 99.1 | 97.0 | 7,524 | c | middle |
| Chile | 1991 | 54.9 | 78.0 | 69.6 | 8,991 | l | middle |
| Venezuela | 1991 | 40.9 | 67.6 | 62.9 | 13,135 | h | middle |
| Peru | . | 36.5 | 66.3 | 61.0 | 14,414 | e | middle |
| Argentina | 1980 | 52.9 | 74.9 | 73.6 | 21,271 | c | middle |
| Colombia | . | 38.7 | 68.9 | 63.5 | 21,975 | e | middle |
| Mexico | 1990 | 41.2 | 83.4 | 71.8 | 56,158 | c | middle |
| Brazil | 1988 | 38.8 | 83.0 | 71.1 | 101,150 | h | middle |

Table 4b continued

| | Year | Share of wage employment in agriculture (%) | Share of wage employment in industry (%) | Share of wage employment in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|-------------------------------------|------|---|--|--|--|--------|--------------|
| Middle East and North Africa | | | | | | | |
| Qatar | 1986 | 98.5 | 98.7 | 97.8 | 337 | c | high |
| Bahrain | 1981 | 43.3 | 93.7 | 87.5 | 363 | c | middle |
| Kuwait | 1985 | 89.9 | 91.6 | 94.4 | 919 | c | high |
| Oman | . | 52.9 | 89.4 | 90.1 | 923 | e | middle |
| United Arab Emirates | 1980 | 85.2 | 97.7 | 90.6 | 1,229 | c | high |
| Lebanon | . | 34.1 | 82.5 | 74.8 | 1,826 | e | middle |
| Jordan | . | 36.2 | 77.1 | 76.4 | 2,555 | e | middle |
| Libya | . | 41.3 | 89.7 | 80.9 | 2,811 | e | middle |
| Israel | 1990 | 28.0 | 73.6 | 77.6 | 3,620 | f | high |
| Tunisia | 1989 | 35.7 | 77.2 | 75.7 | 5,396 | l | middle |
| Yemen, Rep. | . | 22.5 | 55.9 | 56.4 | 6,715 | e | low |
| Syrian Arab Rep. | 1989 | 15.4 | 71.3 | 66.7 | 7,328 | l | middle |
| Saudi Arabia | . | 47.8 | 85.5 | 82.8 | 9,740 | e | middle |
| Iraq | . | 30.4 | 79.1 | 70.1 | 11,310 | e | middle |
| Algeria | 1987 | 35.9 | 87.1 | 78.4 | 15,820 | c | middle |
| Morocco | . | 31.3 | 71.9 | 70.2 | 16,211 | e | middle |
| Iran, Islamic Rep. | 1986 | 10.3 | 59.3 | 66.5 | 33,534 | c | middle |
| Egypt, Arab Rep. | 1989 | 14.8 | 75.3 | 74.0 | 33,869 | l | low |
| High-income OECD | | | | | | | |
| Iceland | . | 43.0 | 97.9 | 97.7 | 173 | e | high |
| Luxembourg | 1991 | 14.0 | 95.0 | 90.6 | 264 | l | high |
| Ireland | 1990 | 13.9 | 88.8 | 84.9 | 2,211 | l | high |
| New Zealand | 1991 | 40.5 | 80.6 | 83.2 | 2,337 | c | high |
| Norway | 1991 | 25.0 | 88.6 | 90.6 | 2,808 | l | high |
| Finland | 1991 | 28.4 | 91.9 | 91.2 | 3,380 | l | high |
| Denmark | 1990 | 37.5 | 92.1 | 92.1 | 3,503 | l | high |
| Switzerland | 1980 | 55.7 | 94.4 | 91.3 | 4,709 | c | high |
| Austria | 1990 | 13.0 | 94.9 | 90.1 | 5,000 | l | high |
| Sweden | 1991 | 40.6 | 93.2 | 92.7 | 5,600 | l | high |
| Belgium | 1990 | 17.9 | 90.7 | 79.5 | 6,658 | o | high |
| Netherlands | 1991 | 36.5 | 95.8 | 89.8 | 10,592 | l | high |
| Australia | 1991 | 33.5 | 76.2 | 81.0 | 12,242 | l | high |
| Canada | 1991 | 43.1 | 93.9 | 91.8 | 19,193 | l | high |
| Spain | 1991 | 42.4 | 86.5 | 74.1 | 26,832 | l | high |
| United Kingdom | 1990 | 52.4 | 86.8 | 86.9 | 37,598 | o | high |
| France | 1991 | 20.6 | 91.6 | 87.7 | 37,734 | o | high |
| Italy | 1991 | 40.8 | 82.8 | 70.1 | 39,951 | l | high |
| Germany | . | 30.3 | 84.7 | 82.1 | 55,309 | e | high |
| Japan | 1991 | 10.1 | 85.5 | 82.3 | 87,167 | l | high |
| United States | 1991 | 55.3 | 93.8 | 91.9 | 172,328 | l | high |

Table 4b continued

| | Year | Share of wage employment in agriculture (%) | Share of wage employment in industry (%) | Share of wage employment in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|---------------------------|------|---|--|--|--|--------|--------------|
| South Asia | | | | | | | |
| Maldives | 1990 | 14.4 | 32.4 | 74.1 | 129 | c | middle |
| Bhutan | . | 13.2 | 37.0 | 50.6 | 964 | e | low |
| Sri Lanka | 1986 | 43.8 | 73.2 | 72.3 | 11,706 | l | low |
| Nepal | . | 5.9 | 31.2 | 41.3 | 11,900 | e | low |
| Afghanistan | . | 7.6 | 46.7 | 48.2 | 13,309 | e | low |
| Pakistan | 1992 | 9.5 | 69.5 | 49.6 | 72,119 | o | low |
| Bangladesh | 1989 | 0.9 | 12.9 | 35.7 | 72,677 | s | low |
| India | 1991 | 2.3 | 26.3 | 41.7 | 560,958 | s | low |
| Sub-Saharan Africa | | | | | | | |
| Seychelles | 1981 | 71.8 | 83.3 | 78.7 | 33 | o | middle |
| Sao Tome and Principe | 1981 | 88.1 | 84.0 | 79.2 | 72 | c | low |
| Equatorial Guinea | . | 19.7 | 53.3 | 49.6 | 210 | e | low |
| Cape Verde | 1990 | 36.7 | 88.6 | 45.2 | 222 | c | middle |
| Djibouti | . | 30.2 | 72.6 | 65.4 | 264 | e | middle |
| Comores | 1980 | 17.7 | 47.3 | 32.3 | 319 | c | low |
| Reunion | 1982 | 41.7 | 89.3 | 89.2 | 422 | c | middle |
| Swaziland | . | 26.9 | 70.5 | 61.7 | 466 | e | middle |
| Gambia, The | 1983 | 0.2 | 3.2 | 1.3 | 520 | c | low |
| Guinea-Bissau | . | 16.1 | 41.5 | 42.5 | 582 | e | low |
| Botswana | 1981 | 5.4 | 96.9 | 91.4 | 743 | c | middle |
| Mauritius | . | 36.5 | 74.6 | 71.1 | 763 | e | middle |
| Gabon | . | 40.1 | 77.0 | 73.1 | 797 | e | middle |
| Namibia | . | 31.2 | 70.3 | 66.2 | 872 | e | middle |
| Lesotho | . | 22.2 | 58.1 | 54.7 | 1,094 | e | low |
| Mauritania | . | 20.9 | 56.4 | 52.9 | 1,212 | e | low |
| Congo | . | 26.0 | 65.1 | 60.2 | 1,321 | e | middle |
| Liberia | 1984 | 8.5 | 63.2 | 33.7 | 1,531 | c | low |
| Central African Rep. | 1988 | 0.8 | 35.7 | 41.3 | 1,750 | c | low |
| Togo | 1981 | 1.0 | 20.6 | 33.8 | 2,116 | c | low |
| Sierra Leone | . | 8.4 | 33.1 | 31.2 | 2,463 | e | low |
| Benin | . | 16.1 | 51.0 | 46.4 | 2,692 | e | low |
| Burundi | . | 10.0 | 38.4 | 35.2 | 3,217 | e | low |
| Guinea | . | 17.5 | 54.2 | 48.8 | 3,370 | e | low |
| Chad | . | 10.3 | 39.2 | 35.9 | 3,371 | e | low |
| Rwanda | . | 11.0 | 41.4 | 37.5 | 3,985 | e | low |
| Senegal | . | 20.4 | 59.8 | 53.3 | 4,403 | e | middle |
| Niger | . | 11.7 | 43.3 | 39.0 | 4,499 | e | low |
| Zambia | 1980 | 43.0 | 88.2 | 70.7 | 4,622 | c | low |
| Somalia | . | 12.5 | 45.2 | 40.6 | 5,069 | e | low |
| Burkina Faso | . | 11.9 | 44.3 | 39.7 | 5,383 | e | low |
| Mali | . | 12.3 | 45.0 | 40.4 | 5,399 | e | low |
| Malawi | 1987 | 6.1 | 72.8 | 61.6 | 5,454 | c | low |
| Angola | . | 20.8 | 69.1 | 54.8 | 5,533 | e | middle |
| Zimbabwe | . | 17.1 | 54.8 | 48.6 | 6,071 | e | low |
| Cameroon | 1982 | 3.3 | 37.9 | 62.1 | 6,958 | o | middle |
| Cote d'Ivoire | . | 18.1 | 56.6 | 50.1 | 6,967 | e | low |
| Madagascar | . | 9.1 | 38.6 | 34.6 | 7,277 | e | low |

Table 4b continued

| | Year | Share of wage employment in agriculture (%) | Share of wage employment in industry (%) | Share of wage employment in services (%) | Working age population in 1995 (thousands) | Source | Income group |
|--------------|------|---|--|--|--|--------|--------------|
| Mozambique | . | 0.0 | 6.4 | 7.0 | 8,486 | e | low |
| Ghana | 1984 | 5.3 | 25.2 | 37.0 | 9,045 | c | low |
| Uganda | . | 5.8 | 31.5 | 28.4 | 9,970 | e | low |
| Kenya | . | 10.4 | 42.4 | 37.6 | 13,845 | e | low |
| Sudan | . | 10.3 | 42.3 | 37.6 | 15,238 | e | low |
| Tanzania | . | 1.3 | 20.6 | 19.0 | 15,242 | e | low |
| Zaire | . | 6.4 | 44.9 | 33.5 | 21,485 | e | low |
| South Africa | . | 27.5 | 67.6 | 60.0 | 24,994 | e | middle |
| Ethiopia | . | 0.4 | 18.3 | 17.5 | 29,401 | e | low |
| Nigeria | 1986 | 2.3 | 21.0 | 35.1 | 63,988 | l | low |

Note: Working age population for countries of the former Yugoslavia, former Czechoslovakia, and former Soviet Union are calculated by a forward projection of the 1980-90 growth rate, see text for details.

Sources: c,l,h,o= Census survey, Labor force survey, Household survey and Official Estimates from ILO various years; s=Country sources, see text for details; e=Estimates, see text for details.

| Table 5 - A | | | | | | | | | | | | |
|-------------------------------------|-------------|---------------|-------------|-------------|-------------|-------------|----------|----------|-------------|-------------|-------------|--|
| The World at Work | | | | | | | | | | | | |
| Raw data (part 1): | | | | | | | | | | | | |
| | Working age | Participation | Labor force | Unempl- | Work Force | Share in | Share in | Share in | Labor in | Labor in | Labor in | |
| | population | rate | | oyment rate | | agriculture | industry | services | Agriculture | Industry | Services | |
| | (thousands) | (%) | (thousands) | (%) | (thousands) | (%) | (%) | (%) | (thousands) | (thousands) | (thousands) | |
| World | 3540558 | 69.89 | 2474324 | 4.85 | 2354254 | 45.65 | 20.38 | 33.97 | 1074625 | 479843 | 799787 | |
| High income economies | 547300 | 69.58 | 380811 | 8.30 | 349204 | 4.84 | 29.91 | 65.25 | 16901 | 104447 | 227856 | |
| Middle income economies | 1030643 | 63.83 | 657859 | 6.90 | 612467 | 30.75 | 26.80 | 42.45 | 188334 | 164141 | 259992 | |
| Low income economies | 1962615 | 73.15 | 1435653 | 3.00 | 1392583 | 62.43 | 15.17 | 22.40 | 869390 | 211255 | 311939 | |
| East Asia and Pacific | 1176166 | 81.91 | 963398 | 2.80 | 936422 | 57.93 | 17.97 | 24.10 | 542470 | 168275 | 225678 | |
| Europe and Central Asia | 323679 | 73.94 | 239328 | 7.90 | 220421 | 24.02 | 35.50 | 40.48 | 52945 | 78250 | 89227 | |
| Latin America and Caribbean | 294319 | 56.47 | 166202 | 5.40 | 157227 | 22.87 | 25.38 | 51.75 | 35958 | 39904 | 81365 | |
| Middle East and North Africa | 154506 | 51.66 | 79818 | 13.70 | 68883 | 33.27 | 23.35 | 43.38 | 22917 | 16084 | 29881 | |
| O.E.C.D. | 534231 | 69.64 | 372038 | 8.30 | 341159 | 4.89 | 29.88 | 65.23 | 16683 | 101938 | 222538 | |
| South Asia | 743762 | 59.11 | 439638 | 2.90 | 426888 | 62.31 | 14.68 | 23.07 | 265994 | 62667 | 98483 | |
| Sub-Saharan Africa | 313895 | 68.18 | 214014 | 6.00 | 201173 | 64.57 | 9.21 | 26.22 | 129897 | 18528 | 52748 | |

| Table 5 - A | | | | | | | | | |
|------------------------------------|------------------------------------|------------------------------------|---|--|--|------------------------------------|-------------------------------------|--|--|
| The World at Work | | | | | | | | | |
| Raw data (part 2): | | | | | | | | | |
| Share in Ag that is wage (%) | Share in In that is wage (%) | Share in Sv that is wage (%) | Labor in Wage agriculture (thousands) | Labor in Wage industry (thousands) | Labor in Wage services (thousands) | Share in WF that is wage (%) | | | |
| 7.98 | 58.76 | 64.66 | 85760 | 281960 | 517137 | 37.59 | World | | |
| 38.18 | 89.13 | 85.61 | 6453 | 93094 | 195067 | 84.37 | High income economies | | |
| 25.63 | 76.71 | 68.23 | 48270 | 125913 | 177393 | 57.40 | Middle income economies | | |
| 3.57 | 29.80 | 46.38 | 31037 | 62954 | 144677 | 17.14 | Low income economies | | |
| 4.49 | 36.21 | 51.93 | 24357 | 60932 | 117194 | 21.62 | East Asia and Pacific | | |
| 20.96 | 82.56 | 80.46 | 11097 | 64603 | 71792 | 66.91 | Europe and Central Asia | | |
| 41.42 | 77.27 | 68.84 | 14894 | 30834 | 56012 | 64.71 | Latin America and Caribbean | | |
| 20.96 | 73.44 | 72.32 | 4803 | 11812 | 21610 | 55.49 | Middle East and North Africa | | |
| 37.93 | 89.17 | 85.63 | 6328 | 90898 | 190559 | 84.36 | O.E.C.D. | | |
| 3.71 | 30.40 | 42.48 | 9868 | 19051 | 41836 | 16.56 | South Asia | | |
| 9.29 | 38.14 | 37.99 | 12067 | 7067 | 20039 | 19.47 | Sub-Saharan Africa | | |

| Table 5 - B | | | | | | | | | | | | | |
|-------------------------------------|------------------------|-------------|-------------|--------------------|------------------------|---------------------|---------------------|------------------|----------------------|---------------|-------------------|---------------|-------------------|
| The World at Work | | | | | | | | | | | | | |
| <i>Estimated numbers:</i> | | | | | | | | | | | | | |
| | Working age population | Labor force | Unemployed | Not in labor force | Workers in agriculture | Workers in industry | Workers in services | Wage agriculture | Non-wage agriculture | Wage industry | Non-wage industry | Wage services | Non-wage services |
| | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) | (thousands) |
| World | 3540558 | 2474324 | 120069 | 1066234 | 1074625 | 479843 | 799787 | 85760 | 988865 | 281960 | 197883 | 517137 | 282649 |
| High income economies | 547300 | 380811 | 31607 | 166489 | 16901 | 104447 | 227856 | 6453 | 10448 | 93094 | 11353 | 195067 | 32788 |
| Middle income economies | 1030643 | 657859 | 45392 | 372784 | 188334 | 164141 | 259992 | 48270 | 140064 | 125913 | 38228 | 177393 | 82600 |
| Low income economies | 1962615 | 1435653 | 43070 | 526962 | 869390 | 211255 | 311939 | 31037 | 838353 | 62954 | 148301 | 144677 | 167262 |
| East Asia and Pacific | 1176166 | 963398 | 26975 | 212768 | 542470 | 168275 | 225678 | 24357 | 518113 | 60932 | 107343 | 117194 | 108483 |
| Europe and Central Asia | 323679 | 239328 | 18907 | 84351 | 52945 | 78250 | 89227 | 11097 | 41848 | 64603 | 13647 | 71792 | 17435 |
| Latin America and Caribbean | 294319 | 166202 | 8975 | 128117 | 35958 | 39904 | 81365 | 14894 | 21064 | 30834 | 9070 | 56012 | 25353 |
| Middle East and North Africa | 154506 | 79818 | 10935 | 74688 | 22917 | 16084 | 29881 | 4803 | 18114 | 11812 | 4272 | 21610 | 8271 |
| O.E.C.D. | 534231 | 372038 | 30879 | 162193 | 16683 | 101938 | 222538 | 6328 | 10355 | 90898 | 11040 | 190559 | 31979 |
| South Asia | 743762 | 439638 | 12749 | 304124 | 265994 | 62667 | 98483 | 9868 | 256126 | 19051 | 43616 | 41836 | 56647 |
| Sub-Saharan Africa | 313895 | 214014 | 12841 | 99881 | 129897 | 18528 | 52748 | 12067 | 117830 | 7067 | 11461 | 20039 | 32709 |

| Table 5 - C | | | | | | | | | | | | | |
|---|------------------------|------------|--------------------|------------------------|---------------------|---------------------|------------------|----------------------|---------------|-------------------|---------------|-------------------|--|
| The World at Work | | | | | | | | | | | | | |
| <i>Estimates as a share of working age population in region</i> | | | | | | | | | | | | | |
| | Working age population | Unemployed | Not in labor force | Workers in agriculture | Workers in industry | Workers in services | Wage agriculture | Non-wage agriculture | Wage industry | Non-wage industry | Wage services | Non-wage services | |
| | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | |
| World | 100 | 3.4 | 30.1 | 30.4 | 13.6 | 22.6 | 2.4 | 27.9 | 8.0 | 5.6 | 14.6 | 8.0 | |
| High income economies | 100 | 5.8 | 30.4 | 3.1 | 19.1 | 41.6 | 1.2 | 1.9 | 17.0 | 2.1 | 35.6 | 6.0 | |
| Middle income economies | 100 | 4.4 | 36.2 | 18.3 | 15.9 | 25.2 | 4.7 | 13.6 | 12.2 | 3.7 | 17.2 | 8.0 | |
| Low income economies | 100 | 2.2 | 26.9 | 44.3 | 10.8 | 15.9 | 1.6 | 42.7 | 3.2 | 7.6 | 7.4 | 8.5 | |
| | | unemployed | ot in labor forc | agriculture | industry | services | | | | | | | |
| East Asia and Pacific | 100 | 2.3 | 18.1 | 46.1 | 14.3 | 19.2 | 2.1 | 44.1 | 5.2 | 9.1 | 10.0 | 9.2 | |
| Europe and Central Asia | 100 | 5.8 | 26.1 | 16.4 | 24.2 | 27.6 | 3.4 | 12.9 | 20.0 | 4.2 | 22.2 | 5.4 | |
| Latin America and Caribbean | 100 | 3.0 | 43.5 | 12.2 | 13.6 | 27.6 | 5.1 | 7.2 | 10.5 | 3.1 | 19.0 | 8.6 | |
| Middle East and North Africa | 100 | 7.1 | 48.3 | 14.8 | 10.4 | 19.3 | 3.1 | 11.7 | 7.6 | 2.8 | 14.0 | 5.4 | |
| O.E.C.D. | 100 | 5.8 | 30.4 | 3.1 | 19.1 | 41.7 | 1.2 | 1.9 | 17.0 | 2.1 | 35.7 | 6.0 | |
| South Asia | 100 | 1.7 | 40.9 | 35.8 | 8.4 | 13.2 | 1.3 | 34.4 | 2.6 | 5.9 | 5.6 | 7.6 | |
| Sub-Saharan Africa | 100 | 4.1 | 31.8 | 41.4 | 5.9 | 16.8 | 3.8 | 37.5 | 2.3 | 3.7 | 6.4 | 10.4 | |

| Table 5 - D | | | | | | | | | | | | |
|---|--------------|------------|-------------|------------|------------|-------------|-------------|----------|----------|----------|----------|-----|
| The World at Work | | | | | | | | | | | | |
| <i>Estimated as shares of labor force in region</i> | | | | | | | | | | | | |
| | Labor Force | Unemployed | Workers in | Workers in | Workers in | Wage | Non-wage | Wage | Non-wage | Wage | Non-wage | |
| | (ages 15-64) | | agriculture | industry | services | agriculture | agriculture | industry | industry | services | services | |
| | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| World | 100 | 4.9 | 43.4 | 19.4 | 32.3 | 3.5 | 40.0 | 11.4 | 8.0 | 20.9 | 11.4 | |
| High income economies | 100 | 8.3 | 4.4 | 27.4 | 59.8 | 1.7 | 2.7 | 24.4 | 3.0 | 51.2 | 8.6 | |
| Middle income economies | 100 | 6.9 | 28.6 | 25.0 | 39.5 | 7.3 | 21.3 | 19.1 | 5.8 | 27.0 | 12.6 | |
| Low income economies | 100 | 3.0 | 60.6 | 14.7 | 21.7 | 2.2 | 58.4 | 4.4 | 10.3 | 10.1 | 11.7 | |
| East Asia and Pacific | 100 | 2.8 | 56.3 | 17.5 | 23.4 | 2.5 | 53.8 | 6.3 | 11.1 | 12.2 | 11.3 | |
| Europe and Central Asia | 100 | 7.9 | 22.1 | 32.7 | 37.3 | 4.6 | 17.5 | 27.0 | 5.7 | 30.0 | 7.3 | |
| Latin America and Caribbean | 100 | 5.4 | 21.6 | 24.0 | 49.0 | 9.0 | 12.7 | 18.6 | 5.5 | 33.7 | 15.3 | |
| Middle East and North Africa | 100 | 13.7 | 28.7 | 20.2 | 37.4 | 6.0 | 22.7 | 14.8 | 5.4 | 27.1 | 10.4 | |
| O.E.C.D. | 100 | 8.3 | 4.5 | 27.4 | 59.8 | 1.7 | 2.8 | 24.4 | 3.0 | 51.2 | 8.6 | |
| South Asia | 100 | 2.9 | 60.5 | 14.3 | 22.4 | 2.2 | 58.3 | 4.3 | 9.9 | 9.5 | 12.9 | |
| Sub-Saharan Africa | 100 | 6.0 | 60.7 | 8.7 | 24.6 | 5.6 | 55.1 | 3.3 | 5.4 | 9.4 | 15.3 | |

| Table 5 - E | | | | | | | | | | | | | |
|--|------------------------|------------|--------------------|------------------------|---------------------|---------------------|------------------|----------------------|---------------|-------------------|---------------|-------------------|--|
| The World at Work | | | | | | | | | | | | | |
| <i>Estimated as shares of world working-age population</i> | | | | | | | | | | | | | |
| | Working age population | Unemployed | Not in labor force | Workers in agriculture | Workers in industry | Workers in services | Wage agriculture | Non-wage agriculture | Wage industry | Non-wage industry | Wage services | Non-wage services | |
| | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | |
| World | 100.0 | 3.4 | 30.1 | 30.4 | 13.6 | 22.6 | 2.4 | 27.9 | 8.0 | 5.6 | 14.6 | 8.0 | |
| High income economies | 15.5 | 0.9 | 4.7 | 0.5 | 3.0 | 6.4 | 0.2 | 0.3 | 2.6 | 0.3 | 5.5 | 0.9 | |
| Middle income economies | 29.1 | 1.3 | 10.5 | 5.3 | 4.6 | 7.3 | 1.4 | 4.0 | 3.6 | 1.1 | 5.0 | 2.3 | |
| Low income economies | 55.4 | 1.2 | 14.9 | 24.6 | 6.0 | 8.8 | 0.9 | 23.7 | 1.8 | 4.2 | 4.1 | 4.7 | |
| East Asia and Pacific | 33.2 | 0.8 | 6.0 | 15.3 | 4.8 | 6.4 | 0.7 | 14.6 | 1.7 | 3.0 | 3.3 | 3.1 | |
| Europe and Central Asia | 9.1 | 0.5 | 2.4 | 1.5 | 2.2 | 2.5 | 0.3 | 1.2 | 1.8 | 0.4 | 2.0 | 0.5 | |
| Latin America and Caribbean | 8.3 | 0.3 | 3.6 | 1.0 | 1.1 | 2.3 | 0.4 | 0.6 | 0.9 | 0.3 | 1.6 | 0.7 | |
| Middle East and North Africa | 4.4 | 0.3 | 2.1 | 0.6 | 0.5 | 0.8 | 0.1 | 0.5 | 0.3 | 0.1 | 0.6 | 0.2 | |
| O.E.C.D. | 15.1 | 0.9 | 4.6 | 0.5 | 2.9 | 6.3 | 0.2 | 0.3 | 2.6 | 0.3 | 5.4 | 0.9 | |
| South Asia | 21.0 | 0.4 | 8.6 | 7.5 | 1.8 | 2.8 | 0.3 | 7.2 | 0.5 | 1.2 | 1.2 | 1.6 | |
| Sub-Saharan Africa | 8.9 | 0.4 | 2.8 | 3.7 | 0.5 | 1.5 | 0.3 | 3.3 | 0.2 | 0.3 | 0.6 | 0.9 | |

| Table 5 - F | | | | | | | | | | | | |
|---|---|--------------|------------|-------------|------------|------------|-------------|-------------|----------|----------|----------|----------|
| The World at Work | | | | | | | | | | | | |
| <i>Estimated as shares of world labor force</i> | | | | | | | | | | | | |
| | | Labor Force | Unemployed | Workers in | Workers in | Workers in | Wage | Non-wage | Wage | Non-wage | Wage | Non-wage |
| | * | (ages 15-64) | | agriculture | industry | services | agriculture | agriculture | industry | industry | services | services |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| World | | 100.0 | 4.9 | 43.4 | 19.4 | 32.3 | 3.5 | 40.0 | 11.4 | 8.0 | 20.9 | 11.4 |
| High income economies | | 15.4 | 1.3 | 0.7 | 4.2 | 9.2 | 0.3 | 0.4 | 3.8 | 0.5 | 7.9 | 1.3 |
| Middle income economies | | 26.6 | 1.8 | 7.6 | 6.6 | 10.5 | 2.0 | 5.7 | 5.1 | 1.5 | 7.2 | 3.3 |
| Low income economies | | 58.0 | 1.7 | 35.1 | 8.5 | 12.6 | 1.3 | 33.9 | 2.5 | 6.0 | 5.8 | 6.8 |
| East Asia and Pacific | | 38.9 | 1.1 | 21.9 | 6.8 | 9.1 | 1.0 | 20.9 | 2.5 | 4.3 | 4.7 | 4.4 |
| Europe and Central Asia | | 9.7 | 0.8 | 2.1 | 3.2 | 3.6 | 0.4 | 1.7 | 2.6 | 0.6 | 2.9 | 0.7 |
| Latin America and Caribbean | | 6.7 | 0.4 | 1.5 | 1.6 | 3.3 | 0.6 | 0.9 | 1.2 | 0.4 | 2.3 | 1.0 |
| Middle East and North Africa | | 3.2 | 0.4 | 0.9 | 0.7 | 1.2 | 0.2 | 0.7 | 0.5 | 0.2 | 0.9 | 0.3 |
| O.E.C.D. | | 15.0 | 1.2 | 0.7 | 4.1 | 9.0 | 0.3 | 0.4 | 3.7 | 0.4 | 7.7 | 1.3 |
| South Asia | | 17.8 | 0.5 | 10.8 | 2.5 | 4.0 | 0.4 | 10.4 | 0.8 | 1.8 | 1.7 | 2.3 |
| Sub-Saharan Africa | | 8.6 | 0.5 | 5.2 | 0.7 | 2.1 | 0.5 | 4.8 | 0.3 | 0.5 | 0.8 | 1.3 |

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