

AGRICULTURAL POLICY ANALYSIS PROJECT, PHASE II

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THE CONTRIBUTION OF AGRIBUSINESS TO NATIONAL INCOME AND EMPLOYMENT IN NORTH AFRICA AND THE NEAR EAST

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**The Contribution of Agribusiness
to National Income and Employment
in North Africa and the Near East**

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EXECUTIVE SUMMARY

When traditional approaches are used to evaluate sectoral contributions to national income the development process that accompanies economic growth often appears to be a transition from largely agrarian, low-income economies to economies with increased reliance on industry and services. This approach masks the critical importance of food- and agriculture-related industries and services — agribusiness — to the growth process.

Abt Associates Inc. was retained by the Agency for International Development (A.I.D.) to develop a methodology for estimating the contribution of agribusiness to national income and to develop baseline estimates for case study countries in North Africa and the Near East. This resultant assessment of agribusiness contribution to gross domestic product (GDP) and employment is intended to assist A.I.D. in strategic planning. It should provide guidance for targeting high potential development assistance for the agribusiness sector and establish a point of reference for future evaluation of agribusiness projects and activities.

Definition of Agribusiness

For the purpose of measuring the contribution of agribusiness to GDP and employment, the agribusiness sector has been defined to include four components:

- agricultural production of food and fiber;
- agroindustrial food and fiber processing;
- inputs, equipment, infrastructure, and energy for agriculture and agroindustry; and
- agribusiness services, which include transportation and storage, trade and distribution of food and fiber products, and other support services (e.g., research and development and agricultural credit).

The definition used here is slightly more restrictive than that used by USDA for the United States because wearing apparel and printing are excluded. Nonetheless, the measurement approach presented below is sufficiently transparent to permit adaptation to more restrictive definitions.

Since the origination of the term "agribusiness" by Davis and Goldberg in 1956, it has generally been defined to include at least these components. However, some specialized uses of the term have been made, referring to one or several components.

A broad definition of agribusiness best accounts for the total contribution of food- and agriculture-related activities to national economies.

Approaches to Measuring the Contribution of Agribusiness to GDP

Within national income accounts, the contribution of agribusiness to value added (VA_{AgBus}) and employment (EMP_{AgBus}) in the various aggregated activities and sectors of a national economy can be estimated as the share of agribusiness (α_{AgBus}) times total value-added (VA_{Tot}) and employment (EMP_{Tot}) generated in these aggregated activities (i) and sectors:

$$VA_{AgBus} = \Sigma(\alpha_i \times VA_i) = \alpha_{AgBus} \times VA_{Tot}$$

$$EMP_{AgBus} = \Sigma(\beta_i \times EMP_i) = \beta_{AgBus} \times EMP_{Tot}$$

A first-best approach is to calculate α_{AgBus} for all activities (i) in each of the component sectors of national accounts, at the four- or five-digit level of the common United Nations *International Standard Industrial Classification (ISIC) of All Economic Activities* codes. This first best approach was applied to agriculture, mining of fertilizer products, agroindustry, and chemical activities (fertilizing animal drugs, agrichemicals). For the remainder, because of data limitations, a second-best approach is required. This involves stepwise approximations of the share of agribusiness in different activities and sectors from equipment, energy, construction, and services. **The underlying assumption, in the absence of better information, is that the claim of agribusiness activities to value added (and employment) generated in supporting activities can be approximated by the contribution of these activities to total GDP.** This assumption has limitations, for example in the service sector, but there appears to be no practical and readily replicable alternative that tackles the limitations of data found in many developing countries. Biases in the individual shares of agribusiness may cancel each other out so that this assumption would hold in the aggregate.

Major Findings—Case Studies for Morocco, Tunisia, and Jordan

One of the major challenges of this project has been acquiring national income accounts data at a sufficient level of disaggregation to permit accurate calculation or estimation of α_i . Data obtained for Morocco, Tunisia, and Jordan are sufficiently detailed to illustrate the approach, but, given the data limitations, the results must be used with caution.

Traditional national accounts show that agriculture represents the smallest sector in Morocco (17 percent), Tunisia (15 percent), and Jordan (7 percent). Disaggregation of national accounts to reflect the forward and backward linkages of agriculture shows that the agribusiness sector is a key contributor to national income as measured by GDP. The agribusiness sector is the largest sector in Morocco (48–50 percent of GDP) and Tunisia (40–43 percent), and the second largest after services in Jordan (21–22 percent). In both Morocco and Tunisia, agriculture is the leading component of agribusiness; in Jordan, it is agribusiness services.

Results of the case studies also suggest that agribusiness contributes relatively more to employment in manufacturing than to GDP (Exhibit 1.1). These estimates underscore the value of agribusiness as a contributor to national income and economic growth and its importance in playing a key role in an A.I.D. strategy to support income and employment generation.

Exhibit 1.1
Contribution of Agribusiness to GDP and Employment in Manufacturing¹

Contribution of Agribusiness to	Morocco	Tunisia	Jordan
Total GDP	48 - 50%	40% - 43%	21% - 22%
Employment in Manufacturing	61% - 70%	48 - 52%	40% - 43%

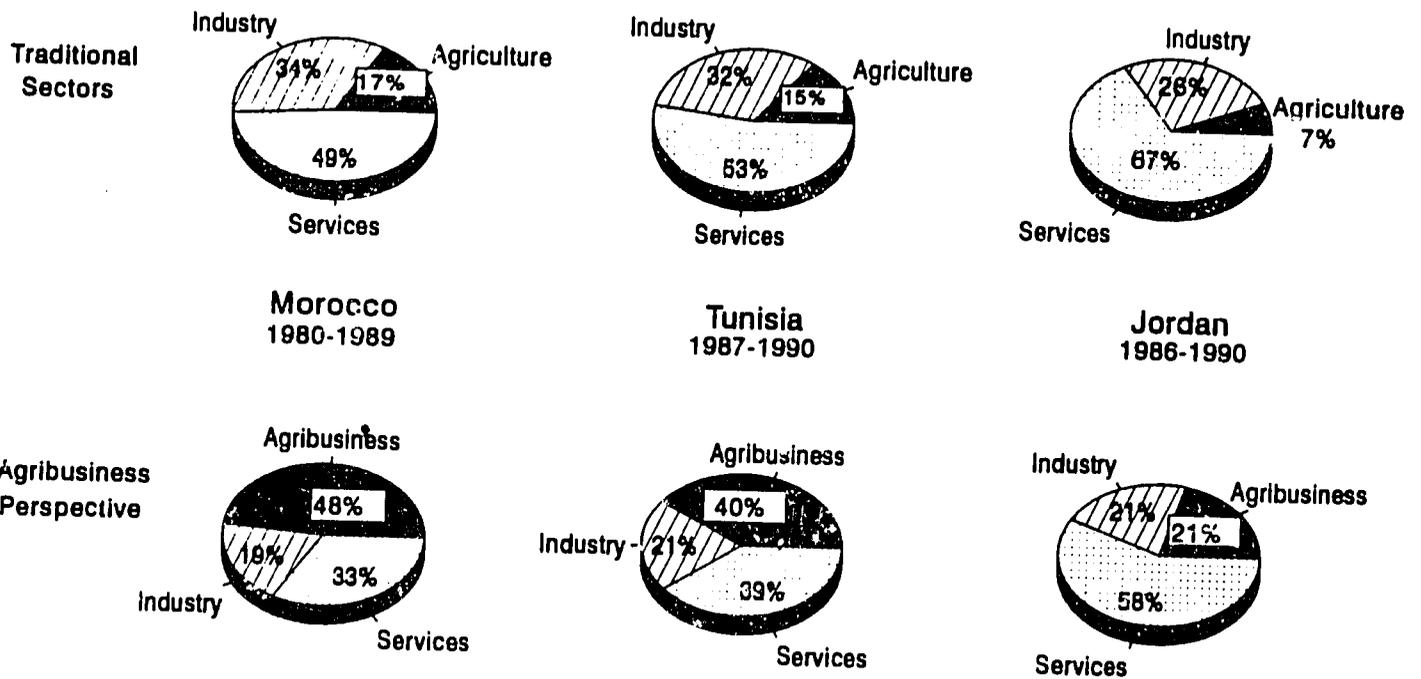
Exhibit 1.2 compares the agribusiness perspective to the traditional view of sectoral shares of GDP, and Exhibit 1.3 shows the composition of agribusiness in these countries.

¹ Upper bound includes natural fiber based wearing apparel.

Exhibit 1.2
Traditional Sectors and the Agribusiness Perspective on
Composition of National Income

Morocco, Tunisia, and Jordan

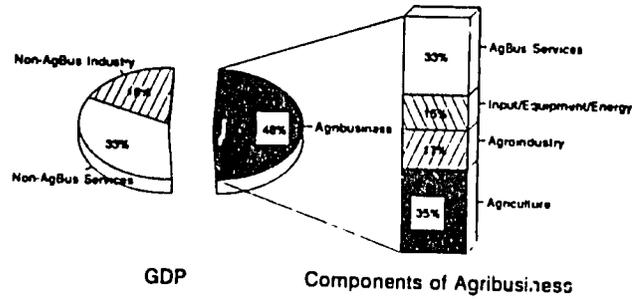
Traditional Sectors and Agribusiness Perspective in National Economies:
Morocco, Tunisia, and Jordan



Note : Agribusiness excludes wearing apparel and printing

Exhibit 1.3 Components of Agribusiness in Morocco, Tunisia, and Jordan

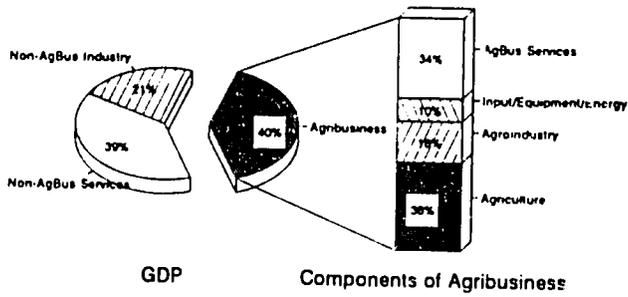
Morocco: Components of Agribusiness Value Added* 1980-1989, Average



*Agribusiness excludes wearing apparel and printing

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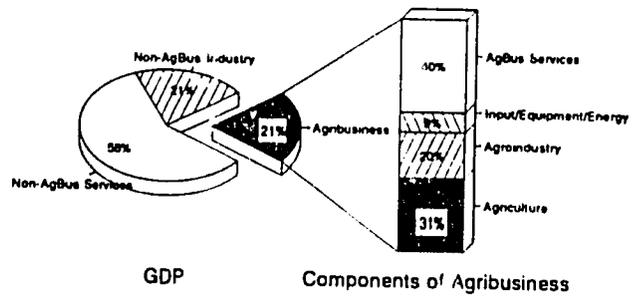
Tunisia: Components of Agribusiness Value Added* 1987-1990, Average



*Agribusiness excludes wearing apparel and printing

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Jordan: Components of Agribusiness Value Added* 1986-1990, Average



*Agribusiness excludes wearing apparel and printing

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Policy Implications and Recommendations

The findings of this study indicate that the agribusiness sector plays an important role in the generation of wealth and employment in the middle-income countries of North Africa and the Near East. Traditional approaches to disaggregating national income might lead policy makers to under-invest in agribusiness, because the critical linkages between agriculture and related industries and services is not self-evident. In establishing priorities for assistance to NE countries, A.I.D. and other donors should focus on the strategic importance of agribusiness to growth in these countries' economies.

The traditional view of sectoral shares of national income provides insufficient insights into the fundamental process of development from a traditional agrarian economy to a more market, industry, and service-oriented economy. An agribusiness perspective places the emphasis on the interdependence among economic activities in the food and fiber system and the cross-sectoral linkages, which are crucial for growth, employment, and food security in developing countries.

Because of the predominance of agribusiness in the development process, A.I.D should use the agribusiness perspective in national accounts to gauge and project economic growth of these countries, as well as the contribution of structural adjustment programs and project assistance. This report lays out a methodology and preliminary benchmarks for case study countries. The approach merits further refinement through further in-depth country-level analysis. It can also be strengthened through attention to further disaggregation of data in the service sector. Attention to informal sector activities will also be important. Some strengthening of national capacity to collect and analyze national income accounts will be required to transform baseline estimates into a useful monitoring tool.

1. INTRODUCTION

There is ample historical evidence that agriculture and agriculture-induced activities play key roles in the process of economic development. However, traditional analyses of national accounts suggest a structural shift from agriculture to industry and services as countries' incomes grow. The traditional measures of sectoral shares of national income as measured by gross domestic product (GDP) fail to fully capture two key aspects of the process of economic growth. First, as economic development proceeds, specialization increases and many food and fiber-related activities previously performed by farm operators are increasingly handled by off-farm enterprises. Such activities include farm input supply, financing, transportation, output processing, storage, and distribution.

In agrarian societies, these activities are performed by farm operators and thus are implicitly accounted for in the measured income of the agricultural sector. However, as economies grow and these activities are performed by off-farm enterprises, the activities and related employment are accounted for in the industrial and service sectors of national income accounts. Partly because of this method of accounting, the apparent share of agriculture in GDP diminishes as economies grow.

Second, as consumers' incomes grow, they demand and can afford goods and services with more value added. Such high value added goods include, for example, processed foods that are made available to consumers in convenient forms, packages, and locations. In agricultural production, traditional cropping patterns increasingly give way to production using purchased inputs such as chemicals, fertilizer, and farm machinery. These involve value added activities, upstream and downstream from production agriculture, that account for an increasing part of economic growth, and thus contribute to reduce further the share of agriculture in GDP as the economy expands.²

The underlying thesis behind this project is that food and other agriculture-related industries and services are critical to the economic growth process but that their link to agriculture is masked in traditional national income accounts. To understand this process, one needs to capture the backward and forward linkages in the economy that are set in motion by agriculture. To provide such an understanding requires development of an approach that separates national income and employment into categories including agribusiness and other industrial and service activities.

Many might argue that the importance of agribusiness in economic growth is obvious and does not merit this sort of analysis. However, as recently as the end of 1992, a World Bank

² Obviously, the share of agriculture may also diminish because of poor performance in the agriculture sector itself. In part, this may be explained by weaknesses in the agribusiness sector, for example, inefficiencies in input distribution and output marketing.

document evaluating structural adjustment in Tunisia argued,". Tunisia surely has to seek a development path emphasizing industry and services. Normally, agriculture's role should be to shrink its share of GDP in an orderly way." While the report goes on to support certain selected agribusiness activities as part of development strategy, the statements underscore the importance of being able to clearly identify the relative importance of food and agriculture-related industry and services in development. Faster growth depends on strong linkages between agriculture, agriculture-related services, and agroindustry.

Abt Associates Inc. was retained to develop a methodology for estimating the contribution of agribusiness to national income and employment and to develop baseline estimates for case study countries in North Africa and the Near East (NE), beginning with Morocco, Tunisia, Egypt, and Jordan, and extending, to the extent possible, to Oman, Yemen, and Algeria. This resultant assessment of agribusiness contribution to GDP and employment is intended to assist the Agency for International Development (A.I.D.) in strategic planning. It should serve as a resource for targeting high-potential development assistance for the agribusiness sector and establish a point of reference for future evaluation of agribusiness projects and activities.

The scope of work set the following specific objectives for the assignment:

- (1) Estimate the size of agribusiness contribution to GDP and to employment in the NE Bureau countries, and track the growth of this sector over the past five to ten years.
- (2) Analyze and describe the agribusiness sector of the NE countries statistically, graphically, and in narrative form.
- (3) Identify indicators or statistics that the NE Bureau can use as a baseline to monitor progress and change in agribusiness and to follow the process of structural change over time.

As the most complete data were obtained for Morocco, Tunisia and Jordan, these are the focus of the main report. Delays in obtaining data from Egypt limited the analysis to that presented in the separate statistical appendix, along with findings for Algeria and Oman. Findings for Yemen were not presented because of difficulties of harmonizing data from North and South Yemen. A follow-up study is being undertaken to provide further in-depth analysis in Jordan.

This final report is organized as follows. Chapter 2 discusses the definition of an agribusiness sector. Chapter 3 presents an approach for measuring agribusiness' contribution to income and employment. Chapter 4 presents the major findings for case studies that applied the method to Morocco, Tunisia, and Jordan. Conclusions, implications for policy, and recommendations are presented in Chapter 5. Additional detail on the methodology and the data base developed as part of this assignment are presented in the appendices.

2. THE AGRIBUSINESS SECTOR DEFINED

Davis and Goldberg (1957), who coined the term *agribusiness*, defined it as "the total sum of all operations involved in the manufacture and distribution of farm supplies; production operations on the farms; and the storage, processing, and distribution of farm commodities and items made from them." They argued that narrower definitions of agribusiness artificially set apart the farm sector from activities that, in most part, were performed by farm operators traditionally in developed countries (and still today in many developing economies). In many developing countries, furthermore, one finds that farm-household members engage in wholesaling and retailing of agricultural produce and prepared foods as a natural extension of farming. Many of these activities are in the informal sector and are, unfortunately, not recorded in national accounts. When they are recorded in the formal sector, however, these activities are traditionally considered part of the service or industry sector.

Others have used more restrictive definitions of Agribusiness. For example, in its narrowest sense, agribusiness includes only agroindustries, those "enterprises that process materials of plant or animal origin" (Austin, 1992) into food, beverages, tobacco, textiles, wood, paper, and leather products.³ Another, still narrow definition, adds those industries that manufacture agricultural inputs and farm machinery to those involved in agroprocessing, but still excludes agricultural production and related activities in the traditional service sector.

It is most common in the U.S. to use a broad definition of agribusiness including the traditional agriculture sector and all activities that are induced by, or closely dependent on, agriculture (Exhibit 2.1). The food and fiber system in the U.S. (Lee et al., 1987) represents agribusiness broadly defined (see text box).

COMPOSITION OF U.S. AGRIBUSINESS,
1989

Agribusiness Activities	GDP	Labor
Farming	9%	12%
Food processing	11%	6%
Manufacturing inputs	14%	12%
Transport, wholesaling, retailing	32%	32%
Eating places	9%	18%
Other	25%	19%

Agribusiness, as a whole, contributes 16% to GDP and 17% to employment in the U.S.

Source: Austin (1992), based on USDA data.
Total differs from 100 because of rounding.

³ The World Bank excludes textiles from "agroindustry" in Tunisia (World Bank, 1990). When textiles are included, the question is often whether one should go beyond weaving and spinning and include manufacture of wearing apparel. In paper products, the question is whether one should include value added in the printing activities.

John Balis (1992) also observed that "the common practice of collecting and reporting the macroeconomic data for developing countries is not consistent in the treatment of the agribusiness sector, and frequently obscures the importance of this sector." Balis suggested that the macroeconomic description of the economy be revised to create an agribusiness sector.

A broad definition of agribusiness better accounts for the total contribution of agriculture-related activities to the economy. A previous agribusiness strategy assessment for A.I.D. noted that agribusiness represents "the chain from input producers and farm suppliers, assemblers, processors, wholesalers, brokers, importers, exporters, retailers, and institutional distributors to consumers, as well as such functions as research and development, transportation, packaging, storage, promotion, financial services and a variety of government activities, including regulation" (Newman et al., 1989).

For the purpose of measuring the contribution of agribusiness to GDP and employment, the study focuses on the agribusiness sector defined to include four components:

- (1) agricultural production of food and fiber,
- (2) inputs, equipment, infrastructure, and energy (fertilizer, chemicals, machinery, water, and other energy) for agricultural and agroindustry,
- (3) agroindustrial processing of food and fiber, including food, beverages, tobacco, textiles and clothing, leather, wood, and paper products, and
- (4) agribusiness services, which include transportation and storage of food and fiber, trade and distribution of produce and processed food and fiber, and other agribusiness support services.

Different combinations of these elements make up the different definitions of agribusiness. This study is based on a broad definition of agribusiness, which includes the four major components, but excluding manufacture of wearing apparel⁴ and printing. The approach used is sufficiently transparent to permit assessment of the contributions of individual components of agribusiness based on more restrictive definitions if desired.

⁴ Lee et al. (1992) from the U.S. Department of Agriculture, for example, include "textiles, apparel and fabrics" in the U.S. agribusiness industry.

Exhibit 2.1

Traditional Sectors in National Accounts and Alternative Definitions of Agribusiness

Sectors	Components of Agribusiness	Broadest	Restricted	Narrow	Narrowest
Agriculture	Agricu'ture ^a	●			
Industry	Agroindustry (food and fiber)	●	●	●	●
	Chemicals, ^b equipment, and energy	*	*	*	
Services	Transport and communication	*	*		
	Hotels/restaurants/trade	*	*		
	Finances	*	*		
	Community services	*	*		

- Notes:
- Agribusiness includes all, or almost all of this subsector.
 - * Agribusiness includes some share of this subsector.
 - ^a Some practitioners exclude firms engaged in agricultural production from agribusiness, except when processing and marketing functions are vertically integrated, as in contract or commercial farming. This proposition has some appeal, but is impractical for the purpose of estimating the contribution of agribusiness to GDP because national accounts statistics can seldom be desegregated in such detail. Also, even noncommercial farmers often market their crops in small quantities, thus integrating production and marketing functions.
 - ^b Includes fertilizer (mined and manufactured) and other agrichemicals.

3. AN APPROACH FOR MEASURING THE CONTRIBUTION OF AGRIBUSINESS TO GDP AND EMPLOYMENT

Before one attempts to measure the contributions of agribusiness to GDP and employment, it is necessary to underscore that different countries compute gross domestic product (GDP), gross national product (GNP), and value added and employment differently. Measurement is extremely difficult, even in countries that devote substantial resources to data collection and analysis. The reliability of any analysis is limited by the quality of the measurement and reporting upon which it is based. This analysis is based upon the best obtainable data, but the findings must be considered with the understanding that there is considerable variability in the accuracy with which specific activities can and are measured in different countries.

3.1 GDP and Value added: An Overview

GDP measures the total output of goods and services for final use (consumption or capital goods) *produced in a country* by residents and nonresidents, regardless of domestic and foreign claims on this value added. GNP measures the total domestic and foreign value added claimed *by residents*, thus including GDP and net factor income from abroad. Despite their recognized conceptual and computational flaws, for they are highly aggregated measures, GNP and GDP are widely used and accepted as yardsticks of the performance of national economies. Current and projected sectoral contributions to GDP are used for decision making on economic policy.

Most final goods are the result of a series of processes, which involve the use by some firms of intermediary goods produced by others. To avoid double-counting the intermediary products included in final goods, a workable computational approach involves the summation of the value added contributed by every firm and activity in the economy. Provided firms are grouped in the appropriate sectors, this approach allows one to assess the relative importance of sectoral contribution to GDP.

Value added may be defined and computed in two ways. A firm's value added can be defined as the total value (sales) of its production less its purchases of materials (raw and semiprocessed goods, or intermediary goods). Value added can also be defined as the sum of factor payments: wages, rent, interest, depreciation, and profit. Conceptually, this enhancement of the value of goods (through production, processing, or distribution) excludes taxes and subsidies, which do not add value to goods. In practice, however, different countries use different statistical approaches that include or exclude taxes and subsidies in reporting value added. When taxes and subsidies are included, value added is said to be at **purchaser values or market prices**; when they are netted out, value added is said to be at **producer prices or factor cost**. Jordan, however, reports GDP at producers' prices and factor cost, where producers' prices mean market prices.

Regardless of the way value added is computed, the contribution of agribusiness to GDP and employment⁵ is the sum of value added and employment generated by the components of the agribusiness sector. However, these components include part of the industry and services sectors as presented in traditional national accounts.

3.2 A Conceptual Approach for Measuring the Contribution of Agribusiness

A thorough review of the literature and numerous interviews with World Bank staff and U.N. national accounts statisticians reveals only a few systematic attempts to estimate the contribution of agribusiness to national income and employment in developing countries. For the U.S., Davis and Goldberg (1957), Lee (1992), and Lee et al. (1987) used input-output (I/O) models to measure the contribution of agribusiness to national income and employment. Ali and colleagues (1989) also used I/O models to measure the contributions and interlinkages of the food and fiber system in Pakistan. In both the U.S. and Pakistan, the I/O tables were produced several years apart (1977 and 1982 for the U.S.; 1975-76 and 1984-85 for Pakistan). For the Philippines, Allen and Dy (1990) measured the contribution of agribusiness⁶ to national income based on their estimates generated from field observations. However, they provide little information on how they determined the contribution of agribusiness in the service sector.

Conceptually, to estimate the contribution to GDP and employment of agribusiness, the industry and service sectors in traditional national accounts must be desegregated and the appropriate activities reclassified as agribusiness components. Detailed information for the industry and service sectors in a consistent system of classification must be available for one to identify the components of agribusiness included in traditional industry and service sectors. **Using an input-output (I/O) model (Lee et al., 1987), one first derives the levels of outputs that are necessary for activities to satisfy the final demand of food and fiber products in the economy. Then multiplying these levels of outputs by their input/output coefficients in value added and employment⁷, one determines the total contribution of agribusiness to GDP and employment.** Alternatively, when lacking an I/O table, one can use the desegregated national accounts data that report value added and employment of these components, and tally value added and employment generated by these components to reconstitute the total agribusiness sector.

⁵ Here employment refers to the number of employees or persons engaged. "The term *employees* excludes working proprietors, active business partners, and unpaid family workers, whereas the term *persons engaged* includes them" (World Bank, 1992). *Economically active population* includes "all persons engaged or seeking employment in an economic activity, whether as employers, own-account workers, salaried or unpaid (family business) workers" (FAO, 1990), usually between age 15 and 65. *Labor force* comprises "economically active persons," including armed forces and unemployed, but excluding care givers and students (World Bank, 1992).

In all three cases, the agribusiness sector includes agriculture or the farming sector. In Pakistan, Ali et al. estimated that agribusiness contributed 48.6 percent to value added and 69 percent to employment in 1984-85.

Under an I/O structure, value added and its components are treated as fixed proportions of outputs over time. In the interest of simplicity, the same was done in this project.

There are, however, a number of difficulties in implementing this approach.

- Few developing countries produce I/O tables, and most I/O tables thus produced are outdated by the time they are published.
- Countries may produce abundant but contradictory national accounts statistics.
- Data reported by international institutions are highly aggregated or, when desegregated, often have many gaps.
- For cross-country comparison, data must often be translated into the common United Nations *International Standard Industrial Classification (ISIC) of All Economic Activities* system, an arduous task.
- Even if data are recorded according to ISIC codes, some activities are still ambiguous aggregations that include agribusiness and other elements.
- The service sector, being a dumping ground for all statistical discrepancies as a matter of practice, contains considerable "noise" and is difficult to desegregate. Clearly, a major hurdle in estimating the contribution of agribusiness to GDP in the NE countries lies in the disentangling of activities in the traditional service sector.
- Additionally, a range of informal sector activities are completely missed in national accounts statistics.

In the course of this project, a practical approach has been developed to account for data limitations and other difficulties. For specific agribusiness activities, we define α_i as the share of agribusiness in the generation of value added of the i^{th} desegregated activity, while β_i represents a similar share of employment. The contribution of agribusiness to GDP in the i^{th} activity is the share of agribusiness times the value added in this activity. Employment is treated in a like fashion. Summing up these contributions across all desegregated activities provides the total contributions of agribusiness to GDP and employment. Alternatively, the total contribution of agribusiness to value added (VA_{AgBus}) can be estimated as the aggregate share of agribusiness (α_{AgBus}) times total value (VA_{Tot}), and its contribution to employment (EMP_{AgBus}) as the aggregate share of agribusiness (β_{AgBus}) times total employment (EMP_{Tot}):

$$VA_{AgBus} = \Sigma(\alpha_i \times VA_i) = \alpha_{AgBus} \times VA_{Tot}$$

$$EMP_{AgBus} = \Sigma(\beta_i \times EMP_i) = \beta_{AgBus} \times EMP_{Tot}$$

where α_{AgBus} and β_{AgBus} are weighted averages, the weights being value added and employment, respectively, across all desegregated activities or sectors of the economy. If activities could be

sufficiently desegregated so that one could decide that it is either all agribusiness (1) or not (0), then α_i and β_i would be the same for each i^{th} activity (either 1 or 0). By extension, if groups of activities are homogenous, one could assume that α_i and β_i will also be the same (here between 0 and 1).⁸ The aggregate shares of agribusiness in total value added and employment still take different values because they are calculated using different weights (value added and employment).

The task is to determine the share of agribusiness at the i^{th} activity level (α_i or β_i) and then at the aggregate level for value added (α_{AgBus}) and employment (β_{AgBus}). A "first-best practical" approach is to estimate the individual α_i for all activities in traditional industry and service sectors of national accounts. This first-best approach makes use of national accounting data, using ISIC coding to the four-digit level and other secondary, ancillary information (see Appendix A). The first-best approach was applied to agriculture, mining of fertilizer products, agro-industry and chemical activities (fertilizer, animal drugs and agrichemicals).

For other activities, where severe data limitations exist, either across the board or for specific groups of activities, a "second-best" approach was used to estimate the contribution of agribusiness in the following stepwise approximation process. First, α_i in agroindustrial activities was estimated, accounting for artificial materials in textiles and rubber industries. Second, the combined contribution of agriculture, agroindustry, and fertilizer to GDP was used as an approximation for the share of agribusiness in the manufacturing of equipment and machinery. Third, the combined contribution to GDP of the agribusiness activities defined in the previous step was used as an approximation of the share of agribusiness in energy and construction. Finally, the contribution to GDP of the combination of agribusiness, "productive" activities defined in the previous step was used as an approximation of the share of agribusiness in the service sector. Exhibit 3.1 illustrates the derived shares of agribusiness at activities at three-level ISIC codes for Morocco, Tunisia, and Jordan.

The underlying assumption, in the absence of better information, is that the claim of agribusiness activities on value added (and employment) generated in supporting activities can be approximated by the contribution of these activities to total GDP. Although intuitively appealing, this assumption has several limitations. It tends to underestimate the importance of agribusiness in countries where resources and services (such as water, energy, finances) are disproportionately used in agriculture, agroindustry, and input manufacturing, the core "productive" activities of agribusiness. On the other hand, the approach reflects the contribution of domestic production to a larger degree than that of imported food and fiber in the service sector. In countries with large import bills in food and fiber, such imports contribute a large share to GDP and employment generated, for example, in transport, wholesaling/retailing, and food service/restaurants. Also, one must realize that the share of agribusiness in different

⁸ Through experience, practitioners have estimated that kindred products have the same ratio of value added to value of production, with the implication that the factor payments (wages, rent, interest, profit) in these activities tend to be similar.

service activities must be different. In any given country, such biases may to some extent be offset, and the underlying assumption may hold in the aggregate.

Exhibit 3.1

Estimated Shares of Agribusiness in Individual Activities: Morocco, Tunisia, and Jordan, 1989

Activities	Morocco	Tunisia	Jordan
Agriculture	100%	100%	100%
Mining	85%	14%	.04%
Manufacturing			
Agroindustry			
Food processing	100%	100%	100%
Textiles	70%	47%	50%
Wood products	100%	100%	100%
Paper products	66%	76%	68%
Chemicals	8%	43%	32%
Machinery/Equipment	25%	22%	12%
Other Manufacturing	0%	0%	0%
Energy	88%	23%	12%
Construction	28%	23%	12%
Services	31%	25%	13%
Total Share (α_{AgBus})	48%	39%	21%

Note: Agribusiness excludes wearing apparel and printing.

Because desegregated data are available for value added but not for employment, we have also assumed that α_i and β_i will be the same (here between 0 and 1) if groups of activities are homogenous. This could bias estimated employment generated by agribusiness downward if the activities we could not desegregate contribute to the economy proportionately more employment than value added. The contributions of agribusiness to GDP (α_{AgBus}) and employment (β_{AgBus}) would still be different though, because they are different weighted averages.

Clearly, this "second-best" approach must be viewed as a first approximation to estimating the contribution of agribusiness to GDP and employment. However, it is a flexible, objective, transparent, and replicable approach that tackles the problem of data availability. It also proved to be a robust approach in the aggregate. In their measure of the contribution of

agribusiness to GDP in the Philippines for 1989 (50 percent), Allen and Dy (1990) provide estimates of the share of agribusiness for activities in the service sector, but give no indication of how these estimates were generated. Using our approach and their data, we calculate that agribusiness contributed 52.6 percent to GDP, instead of 50.1 percent (see Exhibit 3.2). At the aggregate level, the difference between the two estimates is merely 2.5 percentage points.

One can use this approach to get a first reading of the importance of agribusiness in an economy. As more information becomes available and countries follow guidelines of United Nations ISIC Version 3, which for example specifies equipment and machinery for different activities, this approach can be replaced by the "first-best practical" approach.

3.3 Data Collection and Database Development

One of the major challenges presented in this project has been the availability of national income account data at a sufficient level of disaggregation to permit accurate calculation or estimation of the contribution of agribusiness to GDP (α_{AgBus}) and employment (β_{AgBus}). There is lack of detail in national account statistics for the reporting of value added in key activities e.g., manufacturing of machinery/equipment and the whole of the service sector. Employment data presented another challenge. When employment surveys are conducted, they often cover the manufacturing sector, rarely services, and almost never agriculture, for which only labor force data or estimates are available. Furthermore, different countries use different definitions of employment.

Considerable effort was spent reviewing the literature, interviewing researchers at embassies and at the World Bank, and collecting of a wide range of data. Data were combined from different, sometimes conflicting sources, and represent the most consistent, desegregated

Exhibit 3.2
Agribusiness in the Philippines, 1989

Activities	GDP ¹	Share (%)
Agriculture	225.9	100
Agro-based ²	113.9	100
Inputs	126.5	5.3
Energy	21.6	31.8
Other Industry	58.4	0
Transport & comm.	48.3	50
Trade	187.6	40
Finance, banking	67.6	10
Government services	61.5	15
Private services	51.8	25
Total Service	416.9	31.0
Total	963.2	50.1

Source: Allen and Dy (1990).

¹ GDP is in billions pesos.

² "Agro-based" includes food, beverages, tobacco, wood, paper, leather, and rubber industries.

Applying Abt Associates second best approach to these data, agribusiness would be 36.7% of services and 52.6% of GDP.

national income statistics we could find. Dozens of spreadsheets were developed to manage the mass of data and compute the contribution of agribusiness to national income.

The principal sources of data and assumptions include both country statistical publications and yearbooks of international organizations. For value added, information was available for all seven countries at the most aggregated level. As mentioned above, however, only Jordan, Morocco, and Tunisia had sufficient detail to calculate α_{AgBus} and β_{AgBus} . For Egypt and Algeria, the country yearbooks gave extensive information on the quantity of goods and services produced in the mining, manufacturing, energy, transport, and communications sectors, but contained no information, such as prices or input-output coefficients, from which value added could be extrapolated. Some of the Algerian estimates only included public sector activities. The National Bank of Egypt gave value added for the last ten years in real prices at the one digit level; however, they were based on at least four different index years.

In Oman, energy and service sector activity are well-documented but comparable information is not available for the manufacturing sector. Petroleum refineries are separated out, but the rest of the manufacturing sector is lumped into one category labeled "other manufacturing." After oil, the service sector, particularly trade, is the second largest sector of the economy. Detailed information exists on manufactured traded goods, but little on manufacturing value added (Sultanate of Oman, 1991).

Data for Yemen were quite scarce and further complicated by the merger of two states in 1990. The most recent statistical yearbook available for the (joint) Republic of Yemen gave quantity data at a desegregated level and total value of production for branches of manufacturing (two-digit ISIC level). The U.N. *National Accounts Statistics* provides highly aggregated information on value added for each of the former states from 1980-86; however, each state uses a different currency, further complicating any attempts to combine similar activities from the separate states. Publications from other multilateral agencies contained no additional information.

Consistent information on employment proved to be even more of a challenge. Different definitions of employment for the same economy-wide figures appeared in the Moroccan *Annuaire Statistique* (1985-1990). The International Industrial Office's *Yearbook of Labor Statistics* (1991) carried different sets of information on employment for Jordan, Egypt, and Tunisia.⁹ Furthermore, only the information for Jordan was comprehensive, but even so, excluded the agricultural sector. The 1992 edition had figures for the economically active population in Tunisia at the one-digit ISIC level. For Egypt, the 1991 edition had employment data at the one-digit level for all sectors and at the three-digit level for manufacturing, but only for 1980-84. Other sources provided labor information at an aggregated level and, in at least

⁹ The 1991 edition also included an overall unemployment rate for Morocco.

one case, was quite ambiguous as to what their figures actually described, using the terms *labor force*, *employment*, and *work force* interchangeably.¹⁰

The specific sources of information used to calculate α_{AgBus} and β_{AgBus} for Morocco, Tunisia, and Jordan are further discussed below.

Morocco. Editions of the *Annuaire statistique au Maroc*, produced by the Directorate of Statistics (1985, 1990), provided most of the data for value added. The annuals reported value added at the one-digit ISIC level for 1980–88, and at the three-digit level for the mining and manufacturing sectors. A set of weights representing the share of value added for each three-digit level component enabled further disaggregation of manufacturing activities into the four-digit level of detail.

In terms of employment, the United Nations *Industrial Statistics Yearbook* (1988–90) provided employment data at the three-digit level for 1983–89.¹¹ The *Annuaire statistique* only provided information on employment and economically active population in urban areas. The Economist Intelligence Unit's *Morocco Country Profile* for the last several years reports a breakdown of the total labor force, but only for 1980, 1984, and 1985.¹²

Tunisia. The main sources of data include the World Bank Country Memorandum (World Bank, 1990c) and the *Annexe Statistique au rapport sur le Budget Economique 1991* (Republique Tunisienne, 1991). Based on data from the *Annexe*, activities in the manufacturing sector were desegregated and reclassified according to ISIC codes from 1987 to 1990. The World Bank document provided statistics on employment from 1980 to 1988 for all sectors at a one- or two-digit ISIC level. This employment data in the manufacturing sector was further desegregated to cover textiles, equipment, and other activities. The shares of agribusiness were derived from 1987 to 1990. For this reason, the contribution of agribusiness to GDP was estimated from 1987 to 1990, and its contribution to employment only from 1987 to 1988.

Jordan. The *Statistical Yearbook* of the Hashemite Kingdom of Jordan (Department of Statistics 1984, 1986, 1987, 1991) and the United Nations *Industrial Statistics Yearbook* (United Nations Statistical Office, 1985–1992) provided the core of information for calculating the contribution of agribusiness to GDP and employment over the period 1986–90. The three editions of the statistical yearbook provided value added at the one-digit ISIC level and, for 1988–90, provided desegregated information on value added in such service sectors as wholesale

¹⁰ Economist Intelligence Units *Country Profiles*, *World Tables*, *Trends in Developing Economies*.

¹¹ Employment for Morocco was given as the number of employees, excluding working proprietors, owners, etc. Also, certain three-digit groups were lumped together, including 351 (basic chemicals) and 352 (industrial chemicals).

¹² The ambiguity with which the Country Profile presents this data, referring to it simultaneously as both employment and labor force, in addition to the fact that this data for 1985 matches a breakdown given in the 1985 *Annuaire* for economically active populations in the urban area makes these numbers suspect.

and retail trade and business services. The United Nations *Industrial Statistics Yearbook* provided a disaggregation of activities within the manufacturing sector at the three-digit level of detail, in addition to providing crucial information at the four-digit level for textiles, fertilizer, and drugs/medicines.

A slight conversion was required, however, as the aggregate tables in the Jordan *Statistical Yearbook* were prepared for value added at factor cost, and the desegregated data for manufacturing and other activities were given in producer prices. Also, to calculate α_i for mining, value added in phosphates was required. Data from the 1991 *Statistical Yearbook* gave the quantity produced, and with international prices and conversion data from the Tunisia case study, value added for phosphates could be estimated for 1986-90.

In terms of labor, a complete data set of employment in the manufacturing sector was compiled from both the International Labor Office's *Yearbook of Labor Statistics* (1991, 1992) and the United Nations *Industrial Statistics Yearbook* (1989, 1990). Information at the one digit-level was available for 1980 from the United Nations *Statistical Yearbook* (1992). The disaggregation for manufacturing, however, came from the *Industrial Statistics Yearbook*. Finally, for 1988-90, the Jordan *Statistical Yearbook* (1991) provided employment information for such service sector activities as wholesale and retail trade and business services.¹³

Database Developments. Implementation of Abt Associates' practical approach to agribusiness measurement required the design of a database. Two sets of spreadsheets have been developed using Lotus 1-2-3 to evaluate the contribution of agribusiness to GDP and employment over time. These sets use one spreadsheet template, with the main components of agribusiness desegregated at the four-digit level of the ISIC codes. The template is flexible enough, however, to allow computation at a more aggregated level, for example ISIC three-digit level, if only data at that level are available. Because many countries have yet to implement the newer version (Version 3) of ISIC codes, the templates use Version 2 in order to collect as much data as possible.

Several worksheets were created to calculate α_i at desegregated level of activities at four- or five-digit ISIC level. Detailed information was sought to estimate the importance of phosphates in the whole of mining activities; the composition of artificial fibers in weaving; the composition of artificial rubber in rubber activities; and how to estimate the importance of animal drugs in the overall drugs activities. Results of these detailed worksheets were fed into a template that calculates the share of agribusiness in activities at the levels shown in Exhibit 3.1. The share of agribusiness in the i^{th} activity may vary or may remain constant over time. Since information is limited for some activities, we have assumed that α_i remains constant over time for these activities, e.g. for Morocco.

¹³ This information appears in the appendix tables and represents value added included in the sector total; however, lack of data prevented a complete disaggregation of the subtotal.

4. MAJOR FINDINGS FOR MOROCCO, TUNISIA AND JORDAN

The level of aggregation in national accounts statistics, especially in the service sector, has necessitated adoption of a pragmatic approach for estimating the importance of agribusiness in North Africa and the Near East. Even then, secondary data obtained for many NE countries were not sufficiently desegregated to use this approach. For example, desegregated activities in mining and manufacturing of fertilizer products or manufacture of chemical products produced from food and fiber materials were missing for Egypt, Oman, Algeria, and Yemen. Data obtained for Morocco, Tunisia, and Jordan were sufficiently detailed to illustrate the approach developed for this project, and the results for these countries are presented here. The status of the other countries in the case studies is provided in the appendix volume.

4.1 Overview of Major Findings

When national accounts are desegregated and activities regrouped to account for the backward and forward linkages of agriculture, the agribusiness sector is shown as a key sector in the economies of these three countries. In Morocco, agribusiness was the most important sector of the economy from 1980 to 1989, contributing an average 48 to 50 percent to GDP, depending on the treatment of textiles and paper industries. In Tunisia, from 1987 to 1990, the agribusiness sector, although not as dominant as in Morocco, still leads all other sectors in value added, with an average contribution between 40 and 43 percent to national income. Agribusiness contributed an average 21 percent to national income in Jordan from 1986 to 1990.

In all three middle-income countries, agriculture is recognized as a major contributor of resources to the service and industry sectors, and as the major source of income for an important segment of the population. Yet, viewed through traditional national accounts, agriculture represents the smallest sector of the economy (17 percent in Morocco, 15 percent in Tunisia, and 7 percent in Jordan). Despite its positive growth over the 1980s, agriculture's share of GDP has been declining in all three countries.

Agribusiness contributed proportionally more to employment than to national income in the three case study countries because activities and sectors contribute differently to national income than to employment because of different factor payments, or intensity, in value added (labor compensation, rent, interest, operating surplus). In Tunisia, agribusiness contributed an average 41 to 47 percent to employment, and 40 to 43 percent to GDP, over the 1987-88 period for which data was available for employment. From 1987 to 1989, agribusiness in Jordan contributed an average 17 to 19 percent to nonagricultural employment and 14 to 15 percent to nonagricultural GDP. Within the manufacturing sector in Morocco, agribusiness contributed between 61 and 70 percent to employment and between 43 and 48 percent to national income. In Tunisia, for which national income and employment data were obtained for all sectors, agriculture was the largest component of agribusiness contributing to national income, whereas agroindustry was the largest component contributing to employment.

Exhibit 4.1

Contribution of Agribusiness to GDP and Employment in Manufacturing¹⁴

Contribution of Agribusiness to	Morocco	Tunisia	Jordan
Total GDP	48% - 50%	40% - 43%	21% - 22%
Employment in Manufacturing	61% - 70%	48% - 52%	40% - 43%

These findings are reviewed in more detail below. For each country, the section provides an overview of the macroeconomic context in the 1980s, the period for which the contribution of agribusiness is estimated. Highlights of major findings are presented for agribusiness excluding wearing apparel and printing-related activities, which provides the lower-limit on the contribution of agribusiness to GDP and employment. A sensitivity analysis is performed by including these activities, which sets the upper limit on the contribution of agribusiness to GDP and employment. Because of data limitations, these results merit further refinement through in-depth country level analyses.

4.2 Morocco

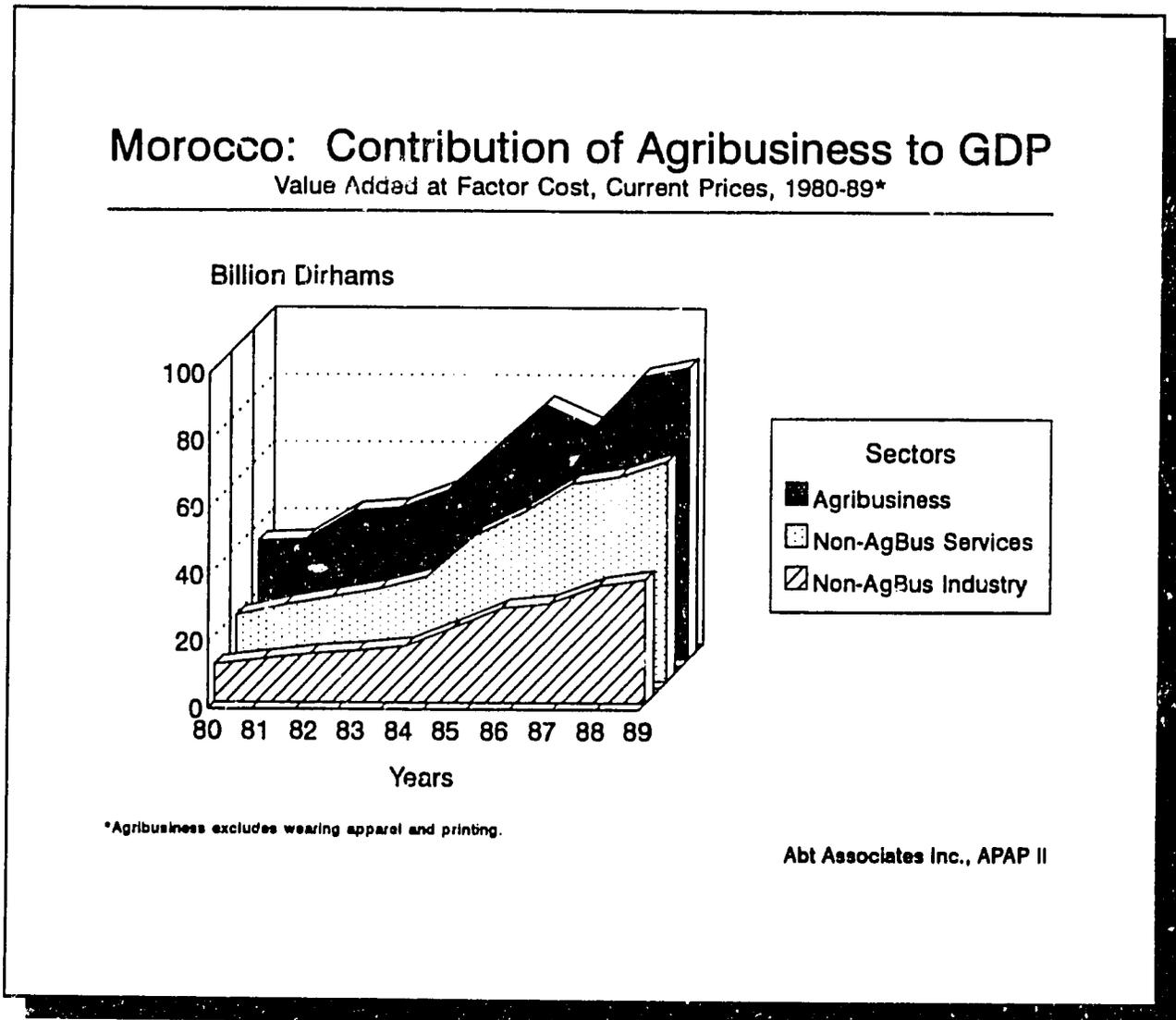
Morocco is a middle-income, non-oil producing country with per capita GNP of US\$950 (in 1990). In the 1970s, exports of high-priced phosphates, whose reserves in Morocco are one of the largest in the world, spurred economic growth. The sharp decline in phosphates' prices in the late 1970s caught Moroccan planners by surprise and contributed to economic imbalances. The country is engaged in structural adjustment programs with the World Bank and International Monetary Fund (IMF). In the second half of the 1980s, Morocco was one of the few developing countries to experience good economic performance. The World Bank estimates that "Morocco could be a potential success story, provided the stabilization program is successfully completed and a program of structural reforms is implemented" (World Bank, 1990b). As with all North African and Near Eastern Countries, the Gulf crisis introduced economic uncertainties.

¹⁴ Upper bounds of ranges include wearing apparel and printing.

4.2.1 Morocco: Contribution of Agribusiness to GDP

Broadly defined, the agribusiness sector in Morocco contributed on average 48 percent to GDP from 1980 to 1989 (Exhibit 4.2), which makes agribusiness the most important sector in the economy in this period, before services and industry. Its size was 2.6 and 1.5 times as large as that of the non-agribusiness industry and service sectors, respectively. Over this period, only the severe decline in agricultural production in 1987 affected the growth of agribusiness. Agribusiness grew after 1987, but by 1989 it had not reestablished the share it had lost.

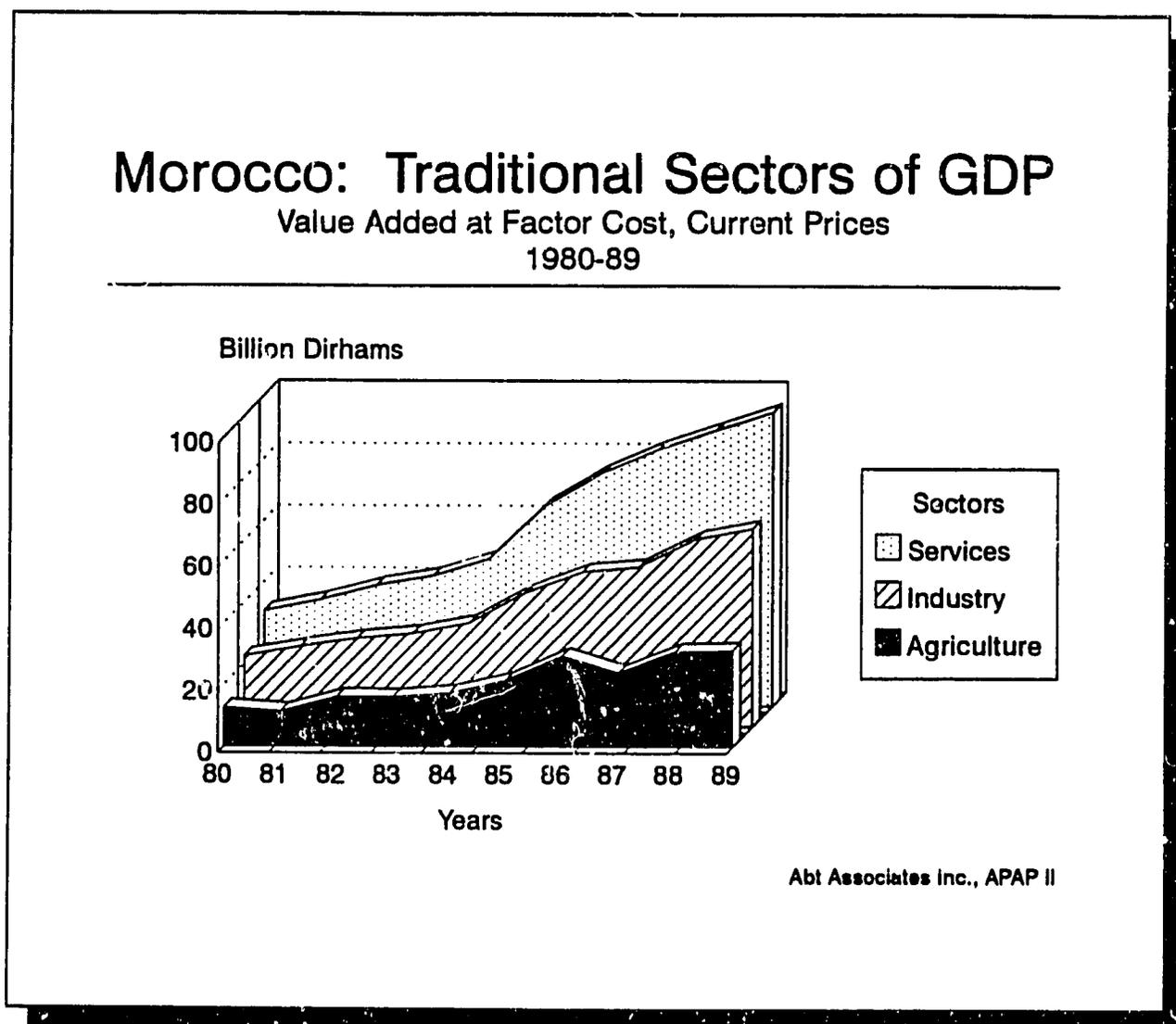
Exhibit 4.2



4.2.2 Morocco: Traditional Sectors of GDP

A comparison of sectoral shares using the traditional classification of sectors credits agriculture with the smaller share of GDP, behind the industry and service sector (Exhibit 4.3). Furthermore, national accounting statistics indicate that the share of agriculture declined during the 1980s, as did that of the industry sector, to the benefit of services. Agricultural growth declined in 1983 and 1987 because of drought in those years. Nevertheless, the growth in agriculture and in phosphates and fertilizer production in the 1980s were important elements in the country's successful economic performance. Traditional national accounts tend to reflect little of the strong contribution of agriculture.

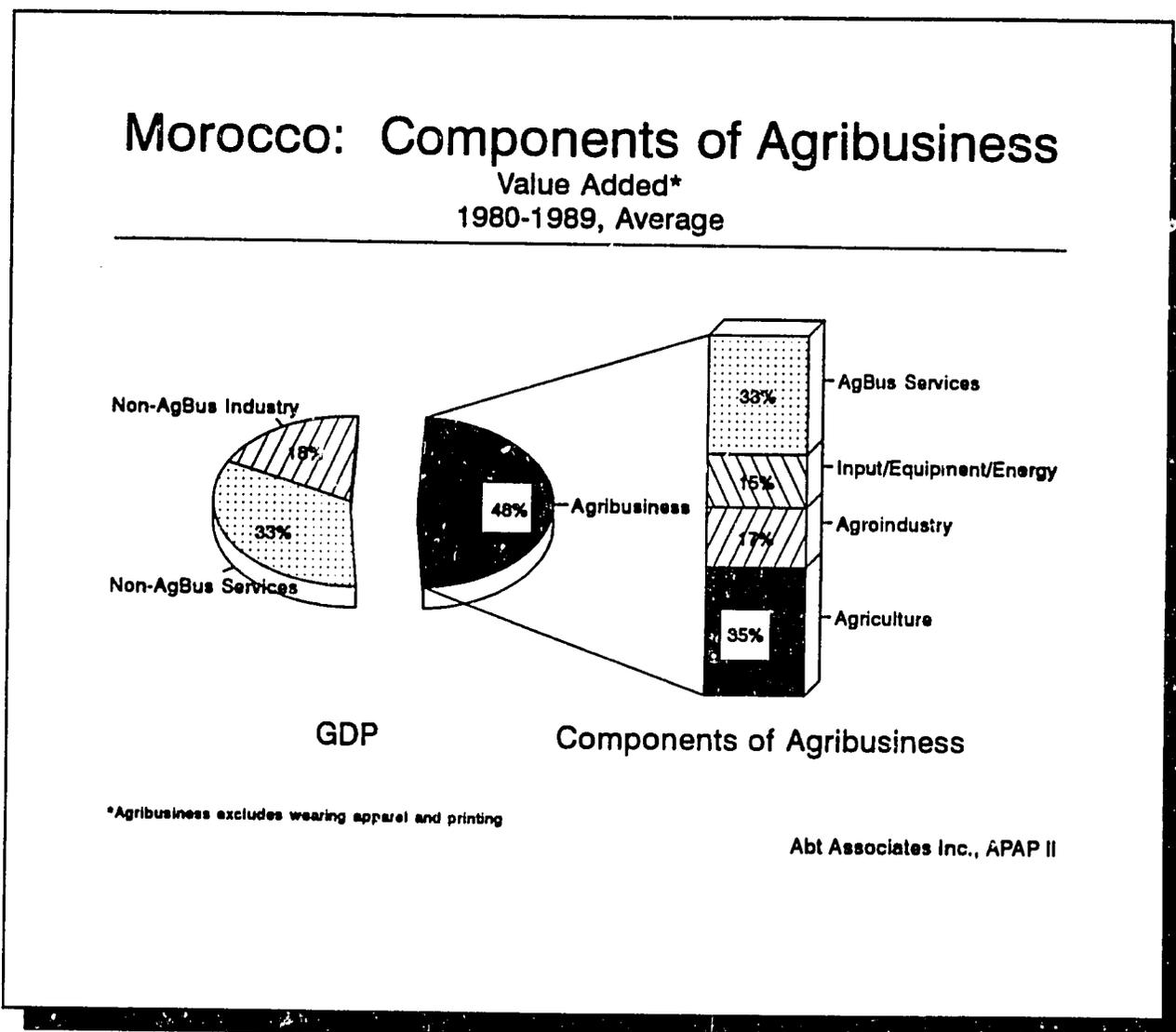
Exhibit 4.3



4.2.3 Morocco: Components of Agribusiness in GDP

Exhibit 4.4 shows the composition of agribusiness in its contribution to GDP. The two largest components of the agribusiness sector in Morocco are agriculture (35 percent) and agribusiness services (33 percent) followed by agroindustry and the combination of inputs, equipment, energy, and other. Agroindustry was the only component to sustain its growth over the 1980-89 period. All other components of agribusiness suffered setbacks, particularly in 1987. The weight of agroindustry, however, was not sufficient to prevent the slump of agribusiness in 1987. This breakdown also serves to define agribusiness differently. Excluding agriculture, agribusiness in its restricted sense still contributes an impressive 31 percent to GDP.

Exhibit 4.4



4.2.4 Morocco: Contribution of Agribusiness to Employment in Manufacturing

Desegregated employment data in Morocco were obtained only for the manufacturing sector, which contributed an average of 22 percent to total GDP from 1983 to 1988. Labor force data available for all sectors are too aggregated (one-digit level ISIC) to support the estimation of the contribution of agribusiness to labor.

From 1983 to 1988, agribusiness contributed an average 43 percent to value added and 61 percent to employment generated within the manufacturing sector. These results suggest that agribusiness contributes relatively more to employment than to value added in the manufacturing sector. Our estimates also suggest that agribusiness smoothed out employment fluctuations in manufacturing. For example, the contribution of agribusiness to value added in the manufacturing sector declined between 1983-85 and 1986-88 from 47 to 41 percent on average. However, its contribution to employment in the manufacturing sector held steady between 60 and 61 percent on average between 1983-85 to 1986-88.

4.2.5 Morocco: Components of Agribusiness in Employment in Manufacturing

Among the components of agribusiness in the manufacturing sector, agroindustry dominates, as expected, in both value added and employment (Exhibit 4.4, 4.5). Furthermore, agroindustry contributes relatively more to employment (56 percent) than to value added (37 percent) generated within the manufacturing sector. In Morocco, equipment and machinery activities appear more labor intensive than input manufacturing.

Exhibit 4.5

Morocco: Contribution of Agribusiness to Employment in Manufacturing, 1983-88 (1,000 persons)

Components	1983	1984	1985	1986	1987	1988
Agroindustry	108	143	153	169	183	206
Inputs	2	3	3	2	2	2
Equipment	9	10	10	10	11	11
Total Agribusiness in Manufacturing	119	156	166	182	195	219

Note: Agribusiness excludes wearing apparel and printing

4.2.6 Morocco: Sensitivity Analysis

Adding wearing apparel and printing activities in agribusiness increases the contribution of agribusiness to national income from 48 to 50 percent on average for the 1980-89 period. Within the manufacturing sector, the average increase in contributions of agribusiness to value added (from 43 to 48 percent) and employment (from 61 to 70 percent) are substantial over the 1983-88 period, for which data is available. This shows the importance of these activities in Morocco.

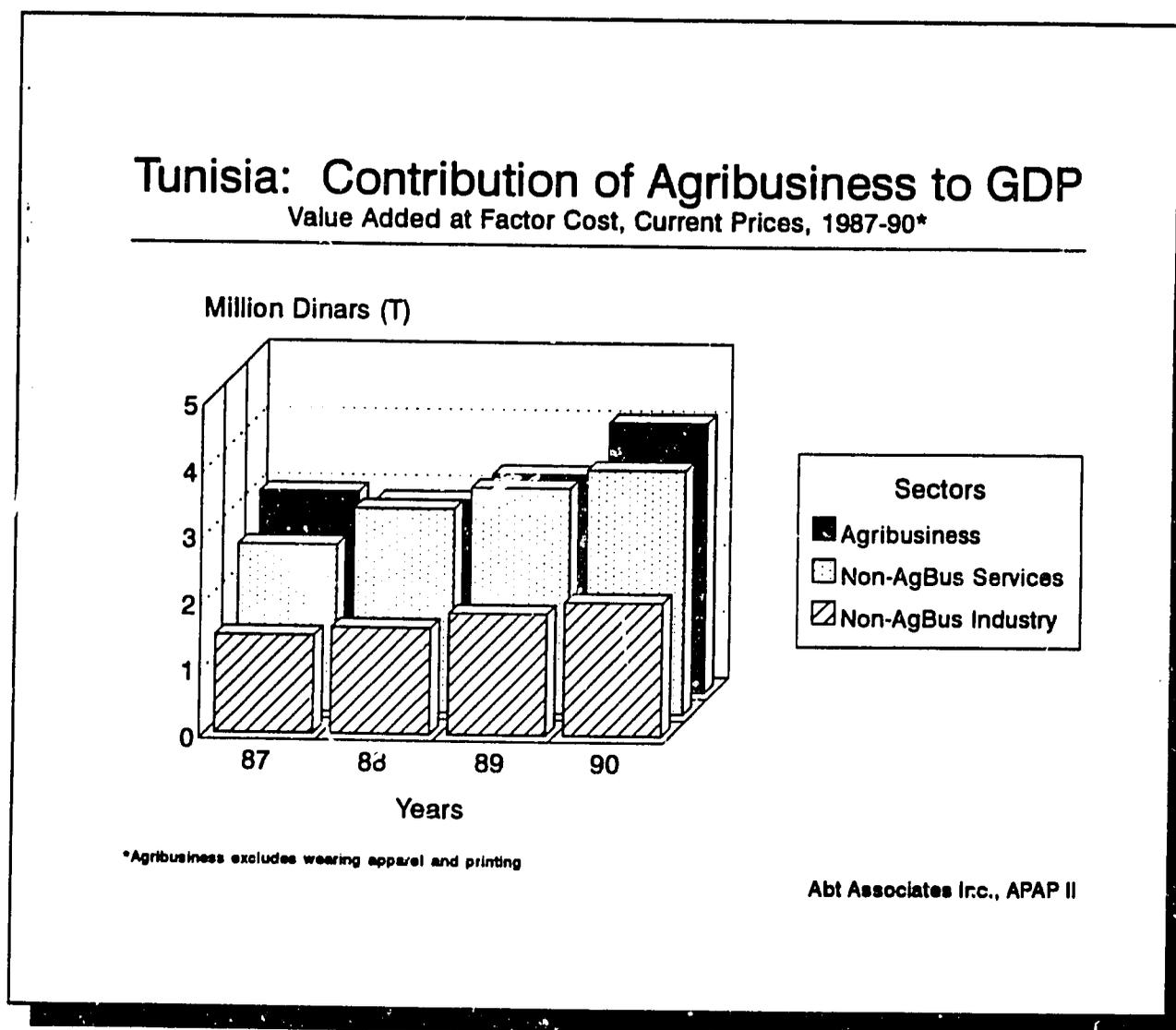
4.3 Tunisia

Tunisia is a middle-income, small oil-exporting country, with per capita GNP of US\$1,440 (in 1990). In the 1970s, Tunisia achieved strong growth as a result of rising oil prices, and avoided economic imbalances thanks to prudent macroeconomic policies. By the 1980s, however, the growing role of the state was creating strains in an economy faced with high taxes, declining oil reserves and prices, inefficient public enterprises, and unemployment (World Bank, 1990). Corrective measures taken by the government to reduce economic imbalances in the late 1980s were helped by the strong performance of agriculture (particularly in 1985-86), manufacturing, and tourism.

4.3.1 Tunisia: Contribution of Agribusiness to GDP

Broadly defined, the agribusiness sector (excluding wearing apparel and printing) was the largest contributor (40 percent) to GDP from 1987 to 1990 in Tunisia, according to preliminary estimates (Exhibit 4.6). Viewed from this perspective, agribusiness was on average almost twice as important as the non-agribusiness industry sector, and slightly more than the service sector. The agribusiness sector declined slightly from 1987 to 1988, but grew strongly in 1989 and 1990, surpassing in value its 1987 level. However, though shares of other sectors were declining, the share of agribusiness did not grow back to the level achieved in 1987.

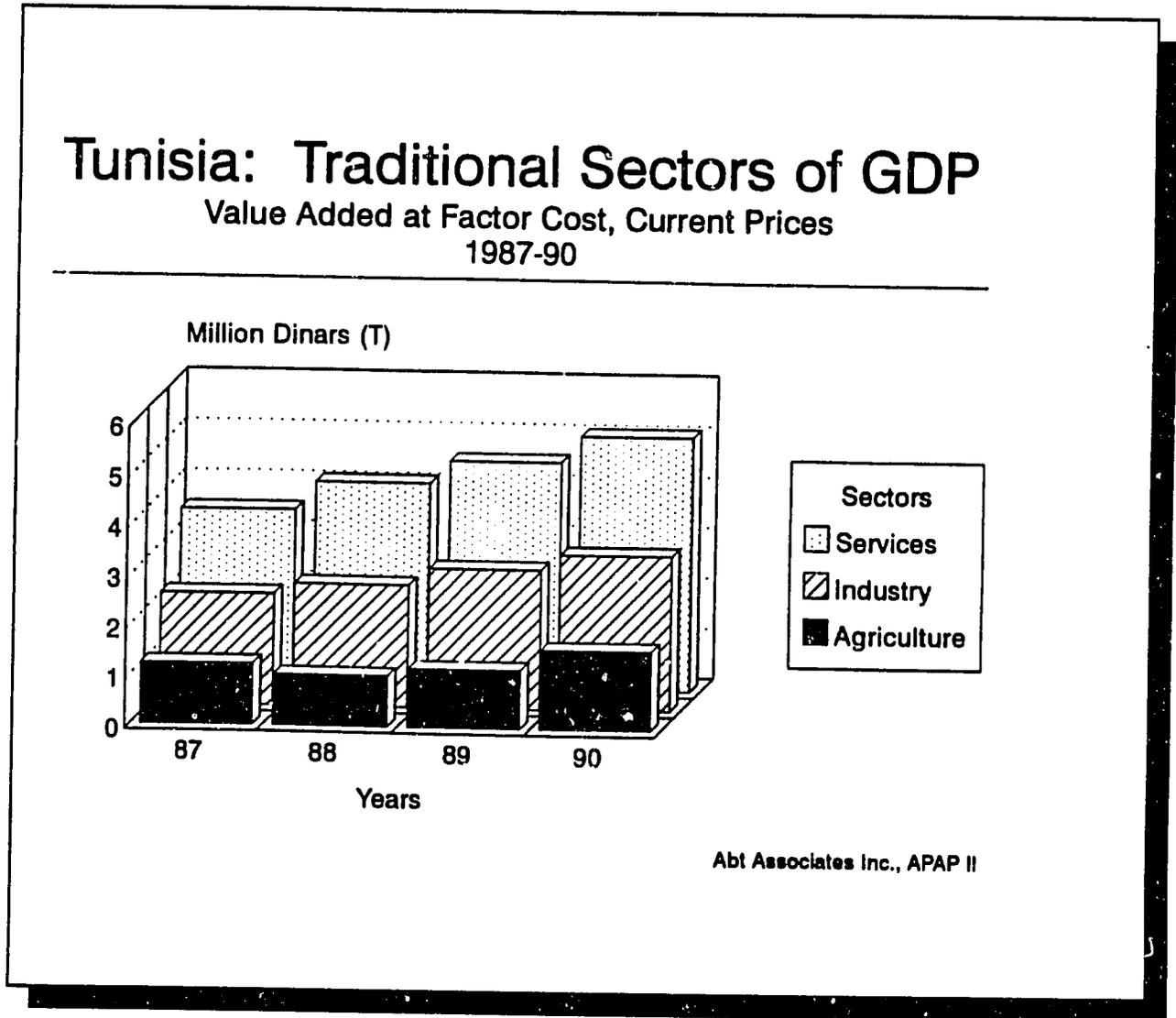
Exhibit 4.6



4.3.2 Tunisia: Traditional Sectors of GDP

From 1987 and 1990, traditional sectoral shares of GDP indicate that the size of agriculture was on average half that of industry and just over one quarter the size of the service sector (Exhibit 4.7). Traditional national accounts statistics also indicate that after declining in 1988, agriculture recovered part of its share in 1990 at the expense of both industry and services.

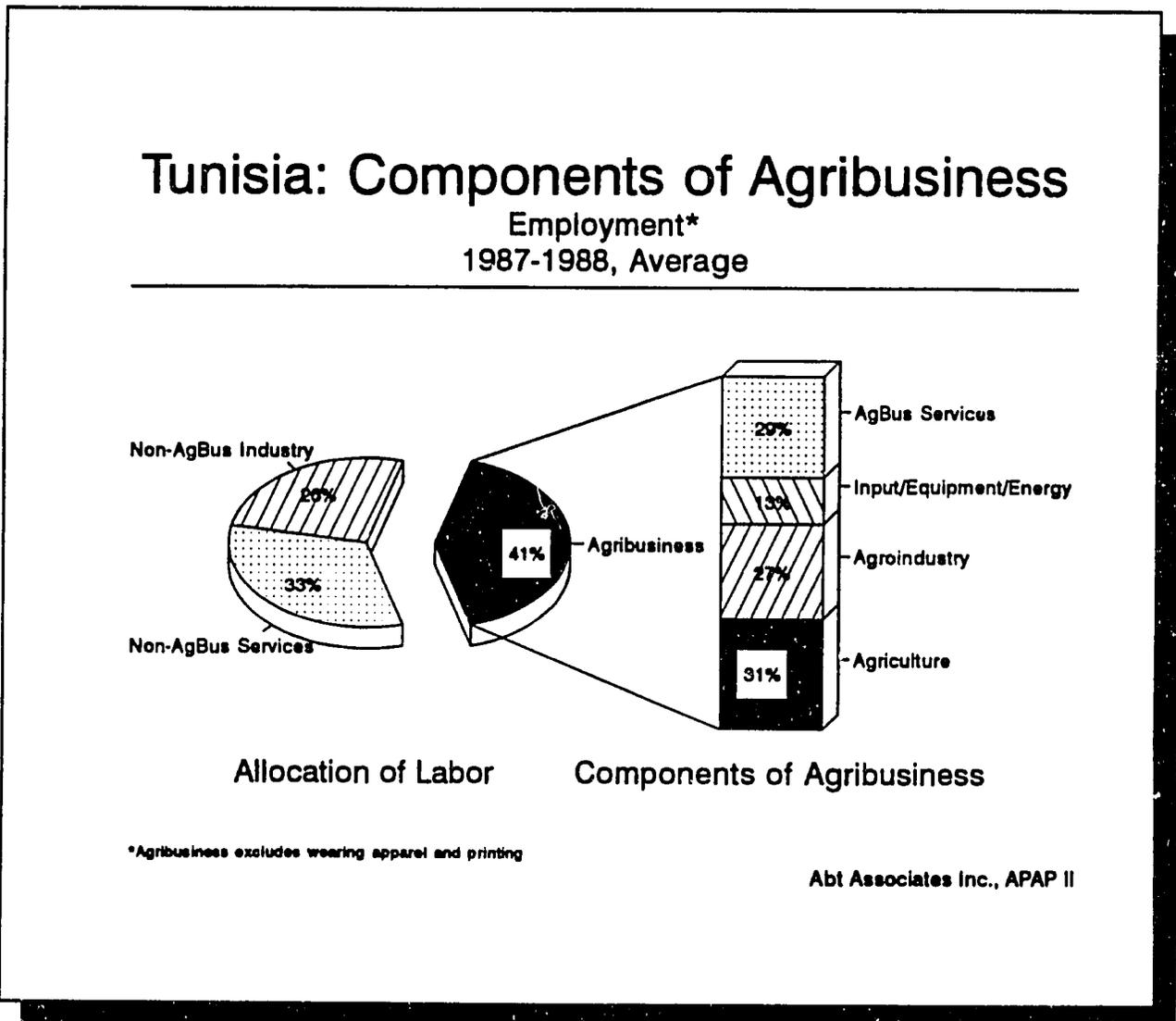
Exhibit 4.7



4.3.3 Tunisia: Components of Agribusiness in GDP

Exhibit 4.8 shows the components of agribusiness in its contribution to GDP. Agriculture and agribusiness services were the most important components of the agribusiness sector from 1987 to 1990. The limited time series does not allow a thorough examination of growth trends of agribusiness. One notes, however, that agriculture was the only component of agribusiness to decrease from 1987 to 1988, although this decrease was not important enough to prevent agribusiness from growing during this period. By rearranging these components agribusiness could be defined differently, but even in the restrictive sense, agribusiness would still contribute 25 percent to GDP.

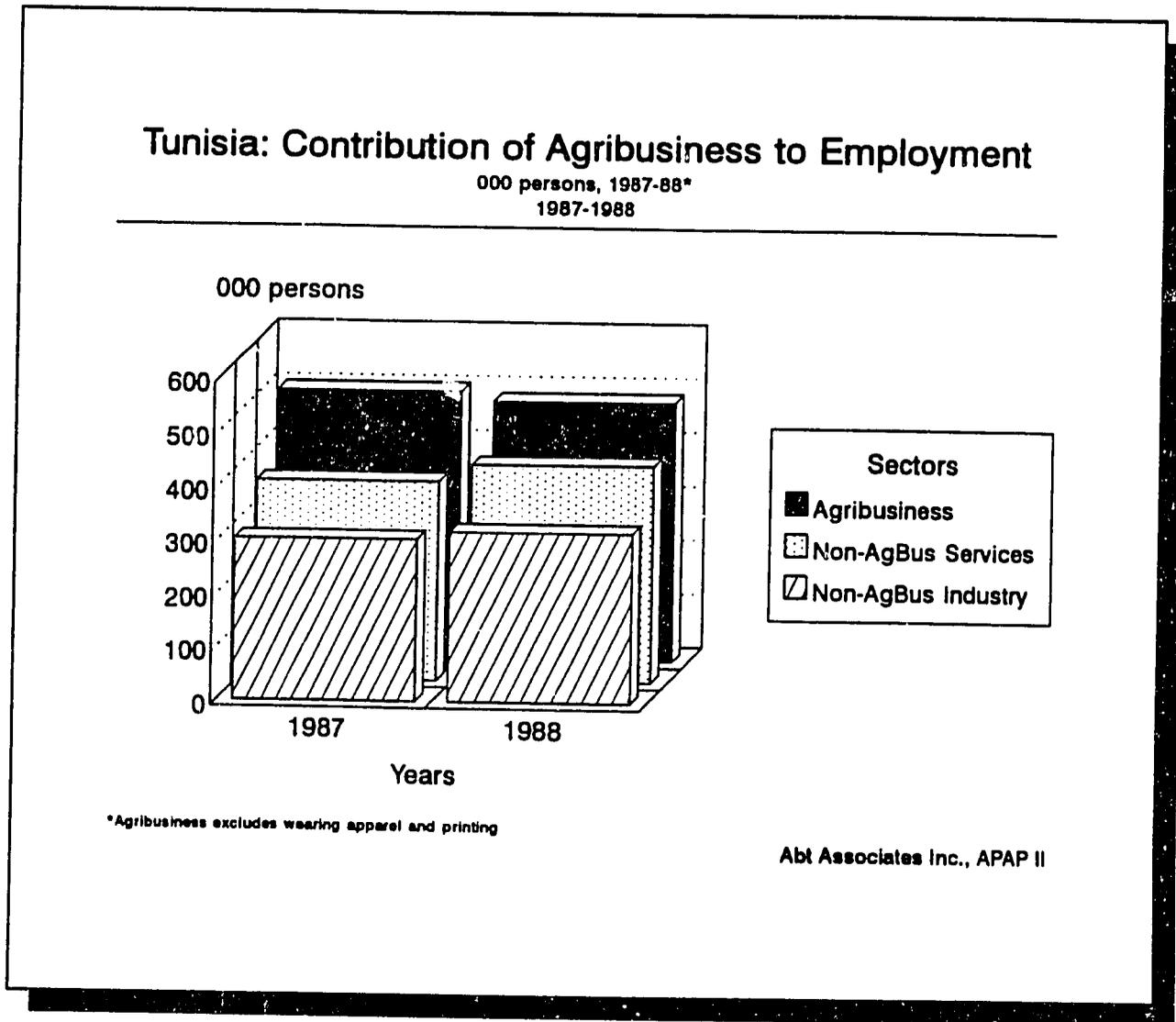
Exhibit 4.8



4.3.4 Tunisia: Contribution of Agribusiness to Employment

Employment statistics viewed from the food and fiber system perspective show the agribusiness sector as the largest contributor to employment (41 percent, or 490,000 persons) in 1987-88, according to preliminary results (Exhibit 4.9). Agribusiness contributes about 1.7 times more employment than the non-agribusiness industry sector. Thus, during this period, the agribusiness sector in Tunisia was on average the most important sector, both in terms of its contribution to GDP and to employment.

Exhibit 4.9



Also the contribution of agribusiness to employment (41 percent) is slightly more than its contribution to GDP (40 percent), which lends support to the pattern perceived in Morocco

despite the limited amount of data on employment. It is remarkable that in Tunisia agribusiness achieved such importance despite an agriculture sector that contributed on average more to GDP than to employment in 1987-88.

4.3.5 Tunisia: Traditional Sectors of Employment

For the 1987-88 period, traditional views of national accounting statistics indicate that agriculture contributed on average more to GDP (15 percent) than to employment (13 percent, or 154,000 employees) in the economy. Over this period, the industry and service sectors contributed about equally (43 and 44 percent) to employment and more than three times the contribution of agriculture (Exhibit 4.10). Industry contributed the most to employment, while it was second to services in value added.

Exhibit 4.10

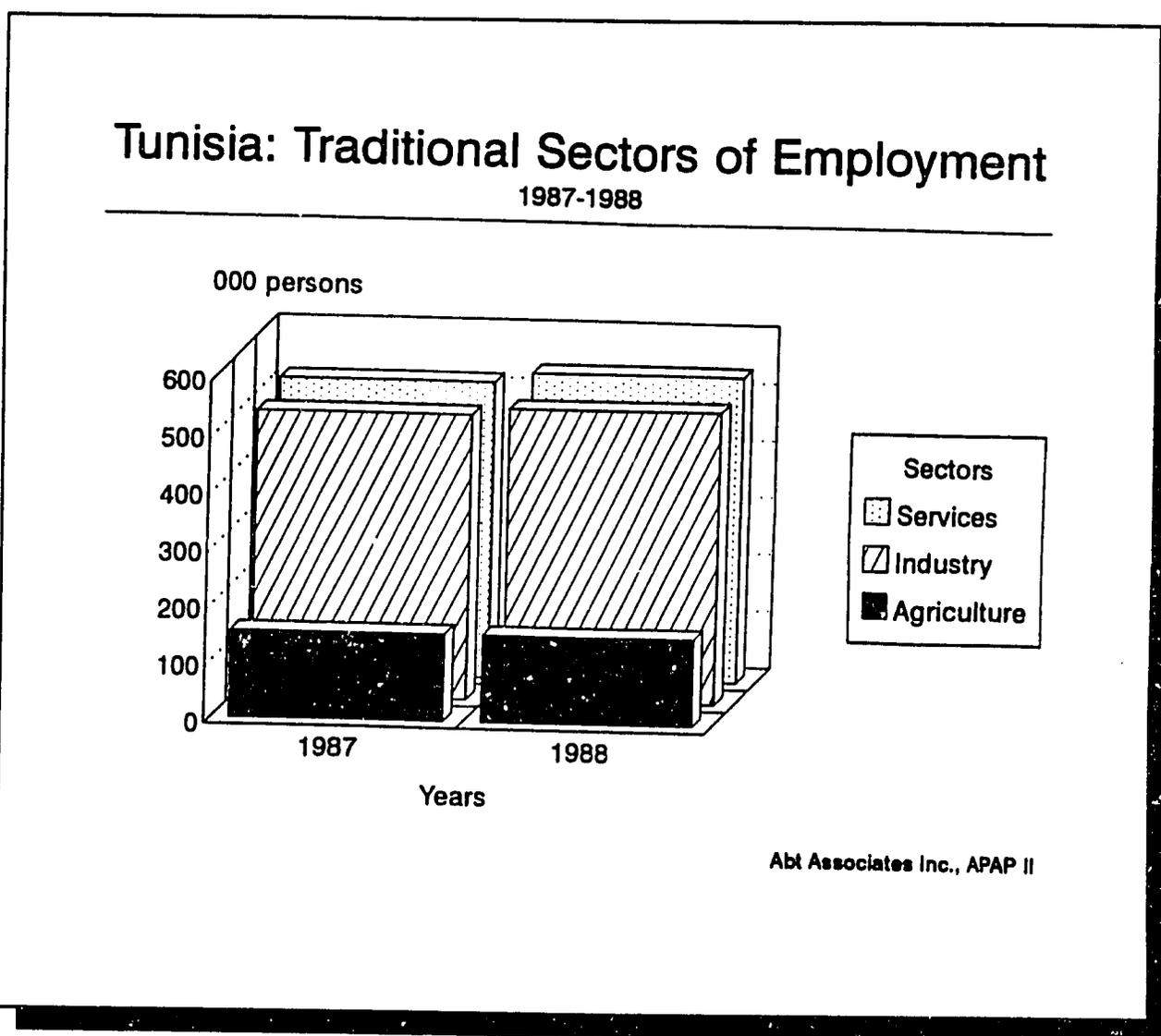
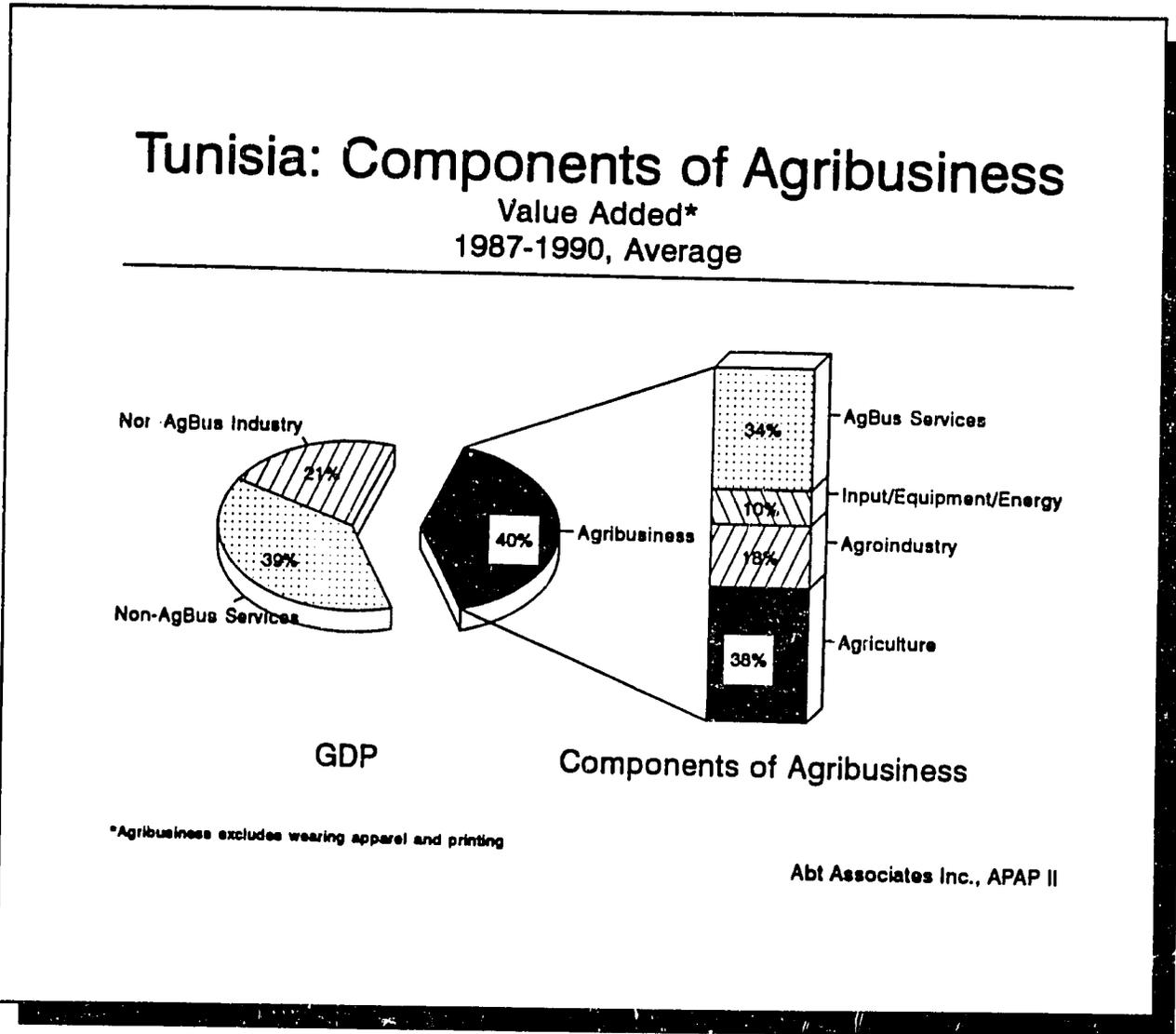


Exhibit 4.11



4.3.6 Tunisia: Components of Agribusiness in Employment

While agriculture was the most important component of agribusiness in terms of GDP, it contributed only slightly more than agroindustry and services to employment in 1987-88. The results also show that agroindustry contributed only about 7 percent to GDP and 11 percent to employment (Exhibit 4.11).

Contrary to the pattern identified in Jordan and Morocco, agribusiness in Tunisia contributed on average less to employment (48 percent) than to GDP (51 percent), according to preliminary estimates. This indicates that wearing apparel and printing activities in Tunisia are less labor intensive than in Jordan and Morocco.

4.3.7 Tunisia: Sensitivity Analysis

Adding wearing apparel and printing activities to agribusiness defined thus far increases this sector's contribution to GDP from 40 to 44 percent, and to employment from 41 to 47 percent. These increases come directly from agroindustry (additional 3 percent in GDP and 6 percent in employment), and indirectly from supporting activities.

Including these activities also results in an agribusiness within the manufacturing sector that follows similar patterns in Jordan and Morocco. Agribusiness in Tunisia now contributes more to employment (66 percent) than to GDP (64 percent) in the manufacturing sector. Furthermore, among the agribusiness components within manufacturing, agroindustry contributes the most to employment (33 percent) among the components of agribusiness (agriculture, 28 percent; services, 27, percent; and inputs, equipment, and energy, 12 percent).

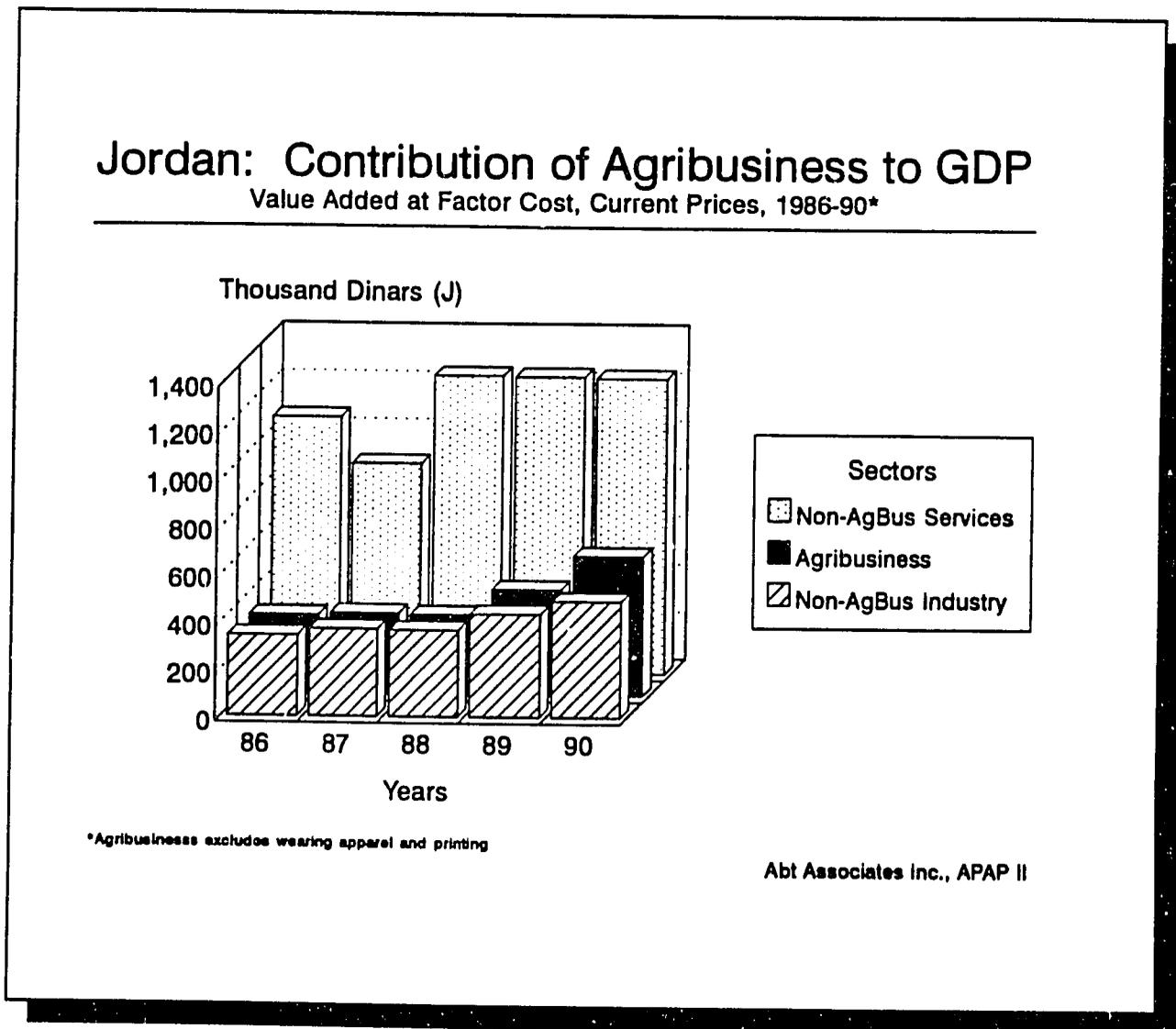
4.4 Jordan

Jordan is a middle-income, non-oil producing country with per capita GNP of US\$1,140 (in 1990). Remittances of workers from abroad account for a significant proportion of the country's income. Jordan is highly dependent on oil-producing Gulf states for financial assistance and exports for both commodities and skilled labor. Depressed oil prices lower the revenues of the Gulf states and consequently hurt their capacity to import from and transfer resources to Jordan. Jordan's economy grew rapidly in the late 1970s, but slowed down afterward, with real GDP declining slightly in 1988. Because of rapid population growth, real per capita income in 1988 was the same as in 1981. Unemployment also grew in 1988, but the terms of trade were improving in late 1990 because of the declining oil prices.

4.4.1 Jordan: Contribution of Agribusiness to GDP

Broadly defined, the agribusiness sector in Jordan contributed, on average, 21 percent to total GDP between 1986 and 1990, according to preliminary estimates (Exhibit 4.12). In comparison, for 1989, agribusiness contributed 16 percent to GDP in the United States, which has the most dominant service sector in the world. The agribusiness sector in Jordan declined in 1988, but since then has showed steady growth. The non-agribusiness industry followed a similar pattern, but its growth rate from 1987 to 1990 was less spectacular.

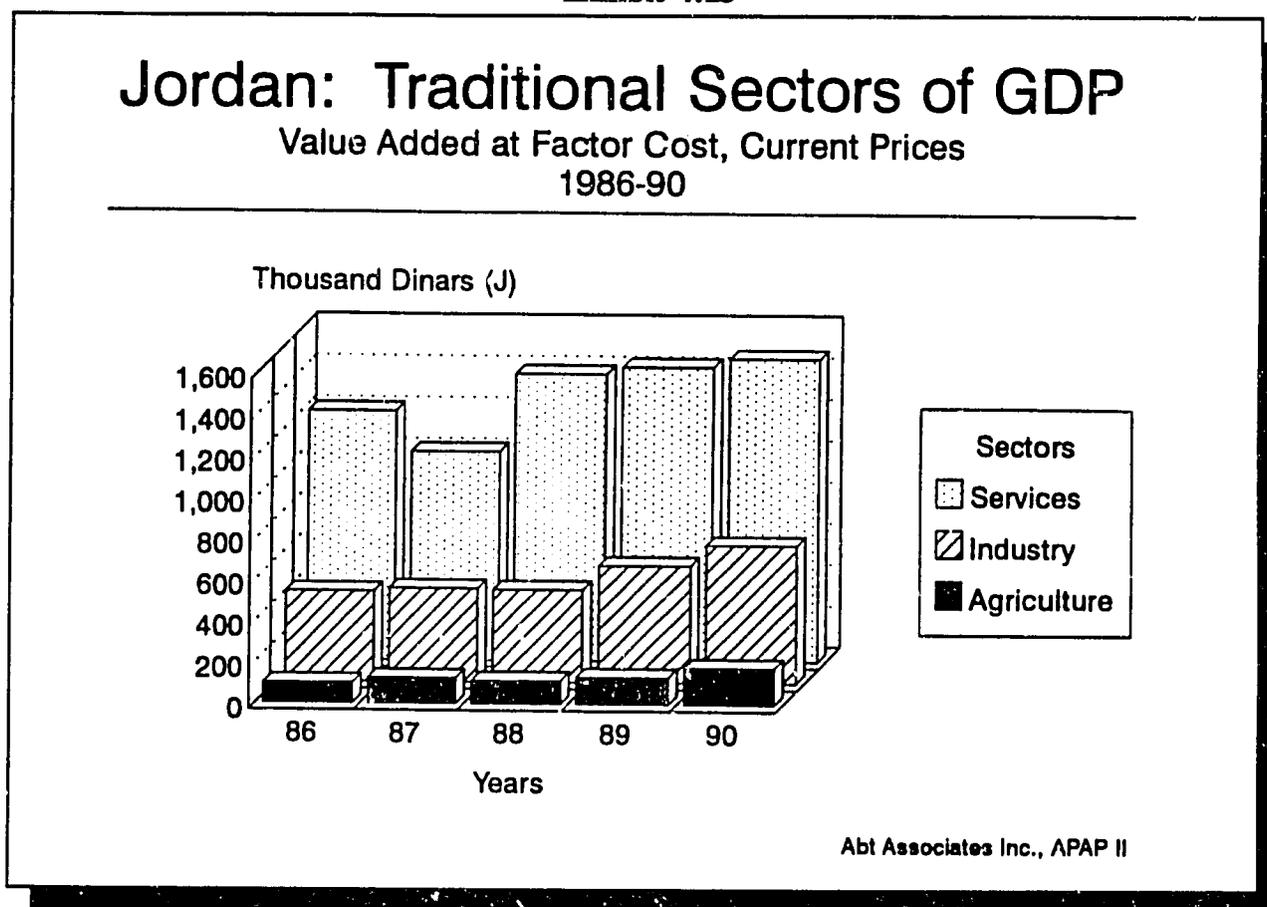
Exhibit 4.12



4.4.2 Jordan: Traditional Sectors of GDP

Viewed in light of traditional national accounts (Exhibit 4.13), agriculture contributes relatively little to GDP, on average 7 percent during 1986-90, well below that for Maghreb countries, which compete with Jordan for access to Gulf states markets. In contrast, the size of the service sector in Jordan (63 percent in 1986-90) is unusual for a developing country and is more comparable with that of developed countries such as the US (72 percent), Canada and France (more than 60 percent), Britain, Germany, and Japan (less than 60 percent).¹⁵ The share of the service sector in Jordan declined from 1988 (71 percent) to 1990 (63 percent), but most of the slack was picked up by the industry sector. However, agriculture represents the major source of revenue for one fifth of the population and contributes to value added in industry and services (World Bank, 1990). Agriculture grew at exceptional rates in the 1970s because of improved rural infrastructure (water development), increased use of irrigation technology, and buoyant exports. Since then, however, it has remained stagnant.

Exhibit 4.13

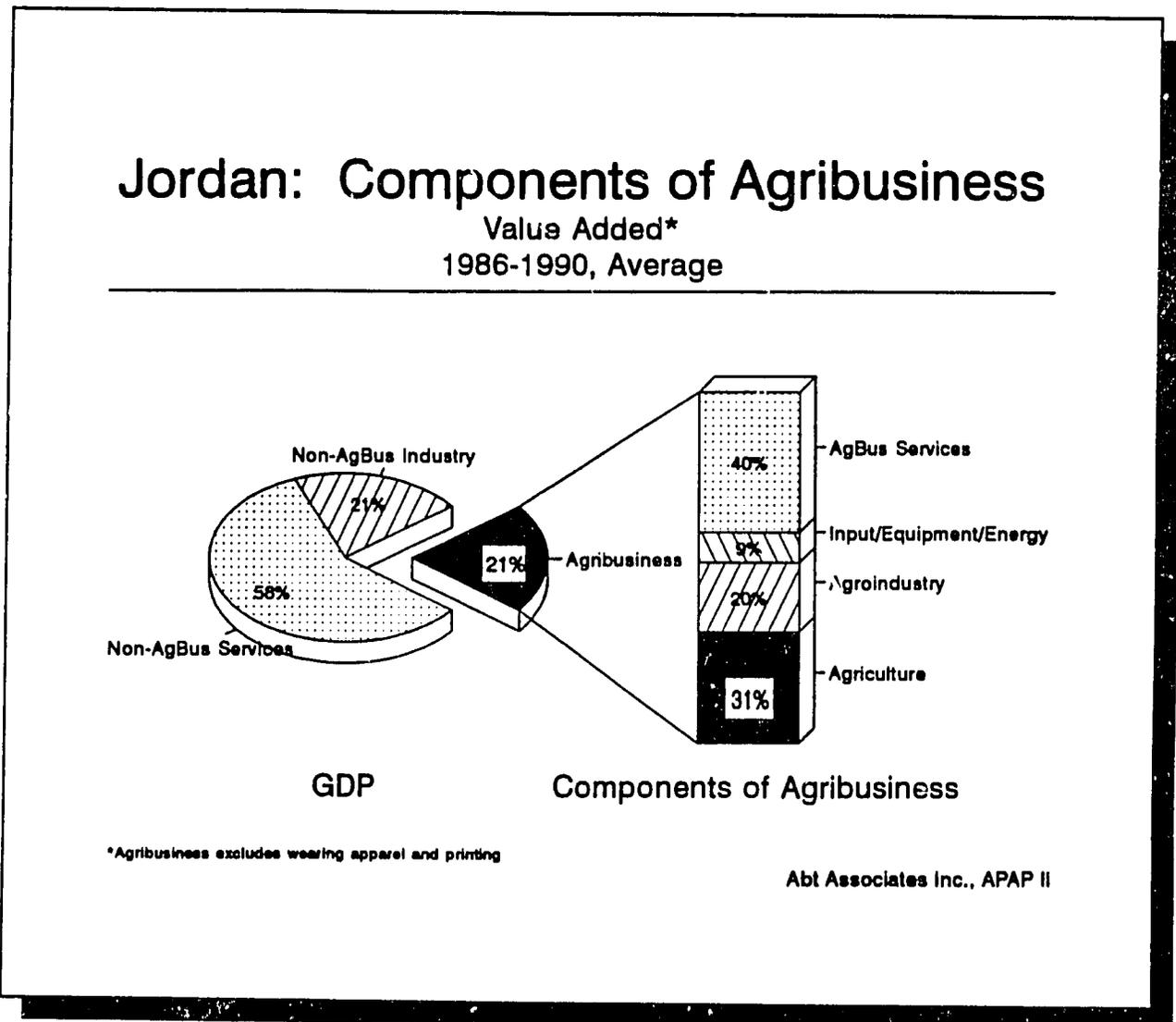


¹⁵ *The Economist*, February 20, 1993.

4.4.3 Jordan: Components of Agribusiness in GDP

The breakdown of the agribusiness sector shows that during 1986–90, the dominant component of agribusiness was services, followed by agriculture, agroindustry, and inputs, equipment, and energy combined (Exhibit 4.14). Agribusiness services, however, were also the most erratic, whereas agroindustry after remaining constant in 1987 and 1988 grew afterward. These elements of agribusiness can be regrouped in different ways to define agribusiness as one chooses. For example, when agriculture is excluded, agribusiness defined in a restricted sense, accounted on average for 14 percent of GDP in 1986–90.

Exhibit 4.14



4.4.4 Jordan: Contribution of Agribusiness to Employment

Employment data for Jordan were obtained for the nonagricultural sector from 1986 to 1989 and for manufacturing from 1986 to 1990. Labor force information was available for all sectors, but presents little interest by itself and also because it is reported at a highly aggregated, one-digit level ISIC code. For this reason, we analyzed the contribution of agribusiness, excluding agriculture, to nonagricultural labor and to nonagricultural GDP.

Agribusiness contributed relatively more to nonagricultural employment, an average 17 percent, than to non-agricultural GOP, an average 15 percent, from 1986 to 1989. The results also indicate that within the manufacturing sector, usually one of the most dynamic, agribusiness contributed relatively more to employment (43 percent) than to value added (40 percent).

Although caution is warranted because of data limitations, there seems to be a pattern showing that agribusiness contributes relatively more to employment than to value added in the economy. In other words, activities in the agribusiness sector appear relatively more labor intensive than activities in other sectors of the nonagricultural economy.

4.4.5 Jordan: Components of Agribusiness in Employment

Excluding agriculture, the contribution of agribusiness to nonagricultural employment in Jordan is dominated by agribusiness services and agroindustry. Over the 1986-90 period, these two components accounted on average for 50 and 41 percent of the nonagricultural employment contributed by agribusiness. Within the manufacturing sector, as expected, the largest component of agribusiness is agroindustry. Whether one looks at the total economy or within the manufacturing sector, the major components of agribusiness in Jordan contributed more to nonagricultural employment than to nonagricultural national income.

Exhibit 4.15

**JORDAN: Contribution of Agribusiness to Employment in Manufacturing, 1986-1990
(1,000 persons)**

Components	1986	1987	1988	1989	1990
Agroindustry	13	13	15	21	24
Inputs	1	1	1	3	2
Equipment	1	1	1	1	1
Total Agribusiness in Manufacturing	15	15	17	25	27

Note: Agribusiness excluding wearing apparel and printing

4.4.6 Jordan: Sensitivity Analysis

Thus far, wearing apparel and printing-related activities have been excluded from agribusiness. The approach used in estimating the importance of agribusiness is flexible enough to include or exclude these activities. Addition of these activities would increase the contribution of agribusiness by one additional percent to total GDP, two percent (from 17 to 19) to nonagricultural employment, and eight percent to manufacturing employment (to 52 percent). Thus in Jordan, it appears that the inclusion or exclusion of wearing apparel and printing activities has more effect on the contribution of agribusiness to employment than to value added, because agribusiness contributes relatively more to employment than to GDP.

5. CONCLUSIONS: POLICY IMPLICATIONS AND RECOMMENDATIONS

In Morocco and Tunisia, two transitional, middle-income countries with important agricultural resource endowments, the agribusiness sector consistently outperformed other sectors in terms of value added and employment generation. As agriculture loses labor, post-farm processing activities add to employment, thus maintaining a strong contribution of agribusiness to employment. In Jordan, despite the fact that services clearly dominate the economy, the contribution of agribusiness to GDP and employment is much more important than the size of agriculture would lead one to believe.

The three countries described here show an interesting range of characteristics. Jordan, Morocco, and Tunisia are middle-income countries with similar per capita income but different natural resource endowments and economic structures. Morocco has important agricultural resources, Tunisia an important industrial base, and Jordan a uniquely large service sector. Both Morocco and Jordan are oil-importing countries, but Jordan actually benefits from oil price increases because of its close dependence on oil-producing Gulf states' economies. Tunisia produces oil, but its oil reserves are declining and the country is relying more and more on non-oil revenues, particularly agriculture, manufacturing, and tourism for economic growth.

5.1 Policy Implications

The findings of this study, although limited to a few countries, clearly suggest that **the agribusiness sector plays an important role in the generation of income and employment in the middle-income countries of North Africa and the Near East. Traditional approaches to desegregating national income might lead policy makers to under-invest in agribusiness because the critical linkages between agriculture and agribusiness components of industry and services are not self-evident. In establishing priorities for assistance to NE countries, A.I.D. and other donors should focus on the importance of agribusiness to growth. These findings support the conclusions of several micro-level studies that strongly indicated that the key to development in developing countries must be one that unlocks the potential of the agribusiness sector.**

Clearly, the traditional view of sectoral shares of national income provides insufficient insights into the fundamental process of development from a traditional agrarian to a more market, industry, and service-oriented economy. A more realistic view will capture the importance of agricultural production, agricultural support for post-farm activities, and how both agriculture and agroprocessing are supported by other productive activities and services. The broad agribusiness approach puts the emphasis on the interdependence among economic activities in the food and fiber system that is so crucial in developing countries.

Because the forward and backward linkages of agriculture remain the driving force for economic growth, a broad agribusiness perspective is critical as the frame of reference

for resource allocation in promoting economic development. Because recipients are low-income and middle-income countries, where agribusiness remains either crucial or predominant in the development process, donors and host countries will benefit from using the agribusiness perspective in national accounts to complement yardsticks based on traditional sectoral shares in gauging economic growth.

In many developing countries, USAID and other donors are allocating considerable resources to support agricultural production, domestic agricultural marketing, trade and investment promotions, nontraditional or high-value commodities exports, and other variously defined agribusiness activities. There is also a move toward support for trade and investment where agribusiness is not the primary target, but often an important component. All these programs have food and fiber as a common denominator, but because they are cast in different, disjointed contexts, donors and host country governments have no adequate framework to gauge the relative contributions of these activities to the national economy.

The practical approach taken here attempts to develop a much needed baseline from which progress can be measured and monitored by missions and host countries. Within their agribusiness portfolio, bureaus and missions may decide to focus on one or several components, now with better insights into the likely contribution of these components to this sector. A coherent, purposeful, and objective perspective provides for better political support from key stakeholders in policy dialogue and reform.

Currently, however, many developing countries do not have the capacity to collect desegregated data to estimate the contribution of agribusiness to GDP and employment. Given the strategic importance of agribusiness, A.I.D. and other donors should strengthen Near East countries' capacity to collect and analyze national accounts statistics that reflect the agribusiness perspective.

5.2 Macroeconomic Indicators of Agribusiness Activities

The traditional indicators derived from national accounts statistics are inappropriate to monitor the agribusiness sector. One needs other indicators derived from the composition of agribusiness, as broadly defined in this study. Such macroeconomic indicators include:

- Value added and employment generated in agriculture, and specifically in high-value commodities such as fruits and vegetables, flowers, and spices.
- Value added and employment generated in agroindustry activities, including food processing, textiles, leather, wood and paper products.
- Value added and employment generated in other industrial activities supporting agriculture and agroindustries: inputs, energy, equipment, and machinery for agriculture and agroindustry.

- Value added and employment generated in agribusiness services, particularly in: distribution, trade wholesale and retail is the traditional breakdown (exports and imports), transport, and financial services.
- Value of exports and imports of food and fiber products.

5.3 Recommendations for A.I.D. Programming and Strategies in Future Activities

Three important issues encountered in the course of this study merit consideration for future activities.

Agribusiness is defined differently by different practitioners. Even for agroindustry, which may be arguably the smallest common denominator of agribusiness, there is disagreement about what it includes. For the purpose of measuring the impact of agribusiness at the macro level, we recommend that A.I.D. consider the broad definition of agribusiness used in this study, or the slightly broader concept, including wearing apparel and printing, used by the United States Department of Agriculture (USDA). Measures should clearly distinguish among the components of agribusiness so that practitioners can recombine them according to particular needs.

This study is based on a combination of "first-best" measurement and "second-best" practical approach necessitated by lack of desegregated data. The approach yields interesting and apparently solid results in the aggregate. However, being a first attempt based on secondary data, it certainly has weaknesses that could be more or less severe depending on specific conditions. When and if better information becomes available, a more elaborate approach should be attempted to refine the results. A small follow-up assignment in Jordan will attempt some refinements.

Input-output models are commonly used in the U.S. to make estimates like those presented here. Many developing countries lack the human and technical resources to generate useful I/O tables in a timely manner, however. A better alternative may be the "first-best" practical approach suggested in this study and based on better desegregated data and interviews of knowledgeable informants to derive the shares of agribusiness in major activities. Improvements, however, should be cost-effective. Such a criterion should be used to evaluate whether the "second best" approach could still be used given time and cost constraints.

Imported food and fiber materials contribute to value added and employment in agribusiness, because no country has a comparative advantage in producing the entire range of materials required in this sector. Countries such as Egypt may even elect to use cheaper imported products in local processing and export higher-value agribusiness products to maximize national income. However, valid concerns may be raised about the comparative contribution of domestic and imported food and fiber materials in agroindustries and services. Future research must attempt to estimate the contribution of domestic food and fiber to agribusiness.

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APPENDIX A

Measuring the Share of Agribusiness (α_i) in Economic Activities A "First Best" Approach

1. Activities in the Traditional Industrial Sector

Reclassify activities in the traditional industrial sector into agribusiness components, using the ISIC coding system and secondary data from international organizations and country national accounts. For example, the manufacturing subsector is already treated as a subgroup of the industry sector by the World Bank because of its dynamic nature. This subsector is desegregated into agroprocessing, production of inputs and agrichemicals, and manufacturing of machinery and transport equipment.

Translate, if necessary, national accounts into the ISIC coding to allow comparisons among countries.

Determine if the level of aggregation of agribusiness components overlaps with other sectors.

If the level of aggregation of the agribusiness component is unambiguous, attribute the total value added and employment of these activities to the agribusiness sector; that is, $\alpha_i = 100\%$.

If the level of aggregation of the agribusiness component overlaps with activities outside the agribusiness sector, estimate the share of agribusiness in these aggregated activities, with clearly stated assumptions; using the following procedures:

For farm inputs, chemicals, and machinery activities, determine the percent of sales going to the agribusiness sector.

For agroprocessing (including animal, fish, and forest) activities producing mixed products (e.g., a blend of cotton and artificial fiber products), determine the share of agribusiness in the intermediary products used in the process.

To determine the share of agribusiness as outlined above, use a combination of secondary data (e.g., industry surveys) and interview a sample of operators and/or key knowledgeable informants.

2. **Activities in the Traditional Service Sector**

- **Transportation and communication.** Conceptually, value added (sales less purchases of intermediary products) in these activities is not computed on the basis of the value of products transported or to which communication is applied. To determine the share of agribusiness in these activities, determine the share of volume (physical or financial as appropriate) going to agribusiness firms, including those in the traditional agriculture sector.
- **Financial and banking services.** As in transportation and communication, value added in these activities does not depend directly on the value of the products supported. Determine the share of agribusiness based on financial volume (e.g., financial flow to agribusiness firms, including those in the traditional agriculture sector).
- **Community services, education, and R&D.** Determine the share of agribusiness based on financial volume (e.g., financial flow to agribusiness firms, including those in the traditional agriculture sector).
- **Wholesale, restaurants, and hotels.** In the value added in these activities, part of the intermediary products are agribusiness products. Determine the share of agribusiness in the intermediary products used in these activities.

AGRICULTURAL POLICY ANALYSIS PROJECT, PHASE II

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THE CONTRIBUTION OF AGRIBUSINESS TO NATIONAL INCOME AND EMPLOYMENT IN NORTH AFRICA AND THE NEAR EAST

**Volume II
Statistical Appendix**

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APPENDIX B

COUNTRY TABLES

**TUNISIA
MOROCCO
JORDAN
EGYPT
ALGERIA
OMAN**

TUNISIA: Traditional Sectors of GDP 1987–1990
(Value Added at Factor Cost in Current Prices, Millions of Tunisian Dinars)

Year	Agriculture	Industry	Services	Total GDP
1987	1,226	2,225	3,496	6,947
1988	1,018	2,439	4,068	7,526
1989	1,172	2,778	4,519	8,469
1990	1,580	3,086	5,046	9,712

TUNISIA: Contribution of Agribusiness to GDP, excluding wearing apparel and printing 1987–1990
(Value Added at Factor Cost in Current Prices, Millions of Tunisian Dinars)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1987	2,974	1,473	2,501	6,947
1988	2,863	1,599	3,064	7,526
1989	3,263	1,822	3,384	8,469
1990	4,045	2,003	3,663	9,712

TUNISIA: Contribution of Agribusiness to GDP, including wearing apparel and printing 1987–1990
(Value Added at Factor Cost in Current Prices, Millions of Tunisian Dinars)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1987	3,187	1,331	2,429	6,947
1988	3,133	1,423	2,969	7,526
1989	3,613	1,594	3,262	8,469
1990	4,437	1,746	3,529	9,712

**TUNISIA: Components of Agribusiness, excluding wearing apparel
and printing 1987-1990**

(Value Added at Factor Cost in Current Prices, Millions of Tunisian Dinars)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1987	1,226	482	270	996	2,974
1988	1,018	537	303	1,005	2,863
1989	1,172	594	361	1,135	3,263
1990	1,580	707	375	1,383	4,045

**TUNISIA: Components of Agribusiness, including wearing apparel
and printing 1987-1990**

(Value Added at Factor Cost in Current Prices, Millions of Tunisian Dinars)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1987	1,226	612	282	1,067	3,187
1988	1,018	699	317	1,099	3,133
1989	1,172	804	380	1,257	3,613
1990	1,580	943	397	1,517	4,437

**TUNISIA: Employment Generated by Traditional Sectors of Economy
1987-1988**
(1,000 persons)

Year	Agriculture	Industry	Services	Total EMP*
1987	154	500	518	1,173
1988	154	513	535	1,202

**TUNISIA: Contribution of Agribusiness to Employment, excluding
wearing apparel and printing 1987-1988**
(1,000 persons)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total EMP
1987	499	303	371	1,173
1988	482	317	403	1,202

**TUNISIA: Contribution of Agribusiness to Employment, including
wearing apparel and printing 1987-1988**
(1,000 persons)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total EMP
1987	565	247	360	1,173
1988	557	254	391	1,202

**TUNISIA: Employment Generated within Agribusiness, excluding wearing
apparel and printing 1987-1988**
(1,000 persons)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1987	154	130	67	148	499
1988	154	134	62	132	482

**TUNISIA: Employment Generated within Agribusiness, including wearing
apparel and printing 1987-1988**
(1,000 persons)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1987	154	182	71	158	565
1988	154	192	67	145	557

**TUNISIA: Contribution of Manufacturing to Employment
1987-1988**
(1,000 persons)

Manufacturing	1987	1988
Agroindustry	194	202
Inputs	25	26
Equipment	40	42
Others	46	48
Total Manufacturing	305	318

**TUNISIA: Contribution of Agribusiness to Employment in Manufacturing,
with Agribusiness excluding wearing apparel and printing 1987-1988**
(1,000 persons)

Agribusiness	1987	1988
Agroindustry	130	134
Inputs	8	10
Equipment	10	9
Total Agribusiness	148	153

**TUNISIA: Contribution of Agribusiness to Employment in Manufacturing,
with Agribusiness including wearing apparel and printing 1987-1988**
(1,000 persons)

Agribusiness	1987	1988
Agroindustry	182	192
Inputs	8	10
Equipment	11	10
Total Agribusiness	201	212

TUNISIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dinars)

Draft - prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
	111	Agricultural and livestock production		SUB-TOTAL										
	112	Agricultural service activities								841.47	1107.97	896.03	1040.06	1439.31
	113	Hunting, trapping and game propagation								841.47	1107.97	896.03	1040.06	1439.31
12	Forestry and logging													
	121	Forestry		SUB-TOTAL										
	122	Logging												
13	Fishing													
	1301	Ocean and coastal fishing		SUB-TOTAL										
	1302	Fishing n.e.c.								91.53	118.03	121.97	131.94	140.69
			TOTAL	500.30	568.80	632.00	677.00	823.00	1040.00	933.00	1226.00	1018.00	1172.00	1580.00
02	MINING AND QUARRYING													
210	Coal Mining													
	2101	Mining and agglomeration of hard coal		SUB-TOTAL										
	2102	Mining and agglomeration of lignite												
220	Crude petroleum and natural gas production													
	2201	On-site gasification of coal		SUB-TOTAL										
	2202	Extraction of crude petroleum and natural gas								569.90	560.20	622.20	682.40	
230	Metal ore mining													
	2301	Mining of iron ores		SUB-TOTAL										
	2302	Non-ferrous ore mining								5.70	8.98	11.70	7.53	
290	Other mining													
	2901	Stone quarrying, clay and sand pits		SUB-TOTAL										
	2902	Mining of chemical and fertilizer materials								26.65	28.30	30.99	35.42	40.50
	2903	Extraction of salt								51.83	72.81	111.39	83.55	
	2909	Mining and quarrying n.e.c.								2.17	2.90	3.56	2.41	
			TOTAL	422.90	514.20	560.70	609.50	668.70	701.10	603.15	657.90	675.88	784.27	816.39
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco													
	311-2	Food manufacturing		SUB-TOTAL										
	3111	Slaughtering, preparing and preserving meat					134.00	186.00	192.00	216.80	231.58	257.65	265.35	321.28
	3112	Manufacture of dairy products								47.21	51.22	60.34	61.57	65.92
	3113	Canning and preserving of fruits and vegetables								17.29	18.84	21.36	23.99	27.41
	3114	Canning, preserving and processing of fish, crustacea and similar foods								13.45	16.05	12.29	16.05	18.36
	3115	Manufacture of vegetable and animal oils and fats								1.95	1.93	2.47	2.27	2.96
	3116	Grain mill products								26.38	29.39	31.14	21.99	51.90
	3117	Manufacture of bakery products								21.50	22.55	24.72	25.64	29.60
	3118	Sugar factories and refineries								26.32	29.63	31.61	36.26	42.59
	3119	Manufacture of cocoa, chocolate and sugar confectionery								5.11	5.74	5.64	6.14	6.51
	3121	Manufacture of food products n.e.c.								6.65	7.69	9.50	11.53	12.40
	3122	Manufacture of prepared animal feeds								6.61	7.11	8.58	9.11	10.04
	313	Beverage industries								16.92	16.51	21.44	21.93	22.12
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials												
	3132	Manufacture of wines								0.07	0.66	0.69	0.75	0.79
	3133	Manufacture of malt liquors and malt								1.83	2.36	1.35	1.78	2.29
	3134	Manufacture of soft drinks; production of mineral waters								2.60	2.26	2.63	2.80	2.98
	314	Manufacture of tobacco products								10.25	9.43	12.19	12.19	13.05
			TOTAL							12.06	10.21	11.70	11.35	12.36

TUNISIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dinars)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles													
		321	Manufacture of textiles				161.00	171.00	197.00	236.83	291.50	333.73	411.40	491.23
			SUB-TOTAL											
		3211	Spinning, weaving and finishing textiles											
		3212	Manufacture of made-up textile goods except wearing apparel							58.92	69.13	74.12	86.93	100.18
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs							34.63	46.51	51.41	63.53	82.02
		3215	Manufacture of cordage, rope, twine and netting							7.32	8.14	9.09	10.05	11.06
		3219	Manufacture of textiles n.e.c.											
		322	Man. of wearing apparel, except footwear											
		323	Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel							104.73	132.84	160.31	203.31	241.11
			3231 Tanning and dressing of leather							6.19	7.12	7.55	8.63	9.94
			3232 Fur dressing and dyeing industries											
			3233 Manufacture of luggage, handbags and the like, saddlery and harness											
		324	Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear											
33	Manufacture of wood and wood products, including furniture		SUB-TOTAL							25.04	27.76	31.25	38.95	46.92
		3311	Saw mills, planing and other wood mills							57.94	64.80	71.19	81.57	96.53
		3312	Manufacture of wooden and cane containers and small cane ware							25.03	27.79	30.44	34.97	40.95
		3319	Manufacture of wood and cork products n.e.c.							2.29	3.06	3.37	4.15	5.30
		3320	Manufacture of furniture and fixtures, except primarily of metal							2.65	3.02	3.37	3.94	4.36
34	Manufacture of paper and paper products, printing and publishing		SUB-TOTAL							27.97	30.93	34.01	38.51	45.92
		341	Manufacture of paper and paper products							48.24	55.54	64.45	73.44	85.51
			3411 Manufacture of pulp, paper and paperboard											
			3412 Manufacture of containers and boxes of paper and paperboard							11.97	15.12	18.45	20.37	24.32
			3419 Manufacture of pulp, paper, and paperboard articles n.e.c.							17.36	19.07	21.62	24.60	28.11
		342	Printing, publishing and allied industries							7.23	8.39	9.43	11.02	12.75
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		SUB-TOTAL				39.00	44.00	52.00	67.70	125.59	176.63	175.14	129.64
		351	Manufacture of industrial chemicals											
			3511 Manufacture of basic industrial chemicals except fertilizers											
			3512 Manufacture of fertilizers and pesticides							1.53	2.10	2.68	3.26	4.19
			3513 Manufacture of synthetic resins, plastics materials and man-made fibres except glass							28.63	37.92	61.80	72.23	67.44
		352	Man. of other chemical products											
			3521 Man. of paints, varnishes and lacquers											
			3522 Man. of drugs and medicines							2.58	3.57	4.30	4.82	6.20
			3523 Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations							0.88	1.37	1.74	1.85	2.55
			3529 Man. of chemical products n.e.c.							5.04	7.02	8.44	9.39	12.09
		353	Petroleum refineries							1.18	1.73	2.14	2.34	2.98
		354	Man. of miscellaneous products of petroleum and coal							NA	40.10	58.60	38.70	-15.10
		355	Man. of rubber products											
			3551 Tyre and tube industries							2.58	3.66	4.50	5.26	6.92
			3559 Manufacture of rubber products n.e.c.											
		356	Man. of plastics products n.e.c.											
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		SUB-TOTAL				99.00	116.00	133.00	25.28	28.12	32.43	37.29	42.37
		361	Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)							124.45	137.15	162.75	183.53	210.84
		362	Manufacture of glass and glass products							35.51	39.13	42.58	48.64	57.68
		369	Man. of other non-metallic mineral products							2.94	3.28	3.94	3.33	4.27
			3691 Manufacture of structural clay products											
			3692 Manufacture of cement, lime and plaster							15.03	16.22	19.26	23.70	27.26
			3699 Manufacture of non-metallic mineral products							49.93	56.73	74.12	86.37	96.85
										21.04	21.79	22.85	21.49	24.78

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TUNISIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dinars)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37			Basic metal industries											
			371 Iron and steel basic industries							25.28	27.53	28.87	33.26	35.10
			372 Non-ferrous metal basic industries							24.22	26.92	28.26	32.56	34.26
			SUB-TOTAL							1.06	0.61	0.61	0.70	0.84
38			Man. of fabricated metal products, machinery and equipment				92.00	109.00	129.00	109.54	119.86	134.52	156.63	186.20
			381 Man. of fabricated metal products, except machinery and equipment											
			3811 Manufacture of cutlery, hand tools and general hardware							6.33	7.15	8.18	9.03	10.36
			3812 Manufacture of furniture and fixtures primarily of metal											
			3813 Manufacture of structural metal products											
			3819 Manufacture of fabricated metal products except machinery and equipment n.e.c.							21.27	21.85	24.24	27.21	30.74
			382 Man. of machinery except electrical							11.30	13.00	14.35	16.60	19.06
			3821 Manufacture of engines and turbines											
			3822 Manufacture of agricultural and forestry machinery							2.32	2.02	4.41	5.04	5.97
			3823 Manufacture of metal and woodworking machinery							5.02	2.50	3.46	0.79	0.00
			3824 Manufacture of special industrial machinery and equipment except metal and woodworking machinery											
			3825 Manufacture of office, computing and accounting machinery							1.67	2.63	3.07	4.6	4.76
			3829 Machinery and equipment except electrical n.e.c.											
			383 Man. of electrical machinery apparatus, appliances and supplies							5.62	6.18	7.29	8.92	10.19
			3831 Manufacture of electrical industrial machinery and apparatus											
			3832 Manufacture of radio, television and communications equipment and apparatus							0.96	1.16	0.87	1.89	2.87
			3833 Manufacture of electrical appliances and housewares							7.97	8.95	10.28	15.40	17.17
			3839 Manufacture of electrical apparatus and supplies							9.83	12.17	13.88	15.98	17.34
			384 Man. of transport equipment							17.83	20.74	23.85	27.10	31.19
			3841 Ship building and repairing											
			3842 Manufacture of locomotives and rolling stocks							4.23	5.16	6.06	6.89	7.83
			3843 Manufacture of motor vehicles											
			3844 Manufacture of motorcycles and bicycles							8.44	10.89	10.78	16.35	23.20
			3845 Manufacture of aircraft							1.86	2.05	2.32	3.38	4.45
			3849 Manufacture of transport equipment											
			385 Man. of prof. & scientific and measuring & controlling equip. not elsewhere classified, and of photographic & optical goods							4.89	3.41	1.48	0.00	1.07
			3851 Manufacture of professional and scientific, and measuring and controlling equipment											
			3852 Manufacture of photographic and optical goods											
			3853 Manufacture of watches and clocks											
39			Other manufacturing industries				89.00	105.00	124.00	6.74	7.74	8.33	9.72	11.08
			390 Other manufacturing industries							6.74	7.74	8.33	9.72	11.08
			3901 Manufacture of jewellery and related articles											
			3902 Manufacture of musical instruments											
			3903 Manufacture of sporting and athletic goods											
			3909 Manufacturing industries n.e.c.											
			TOTAL	417.30	493.90	534.10	614.00	735.00	827.00	893.52	1061.29	1238.12	1390.04	1567.41
04			ELECTRICITY, GAS AND WATER SUPPLY											
41			Electricity, gas, steam											
			410 Electricity, gas and steam				45.00	47.00	54.00	74.50	80.00	85.70	91.60	97.70
			4101 Production, collection and distribution of electricity				45.00	47.00	54.00	74.50	80.00	85.70	91.60	97.70
			4102 Manufacture of gas; distribution of gaseous fuels through mains											
			4103 Steam and hot water supply											
42			Water works and supply											
			420 Collection, purification and distribution of water				37.00	42.00	49.00	53.00	55.30	59.60	65.90	64.10
			TOTAL	53.50	62.40	66.00	82.00	89.00	103.00	127.50	135.30	145.30	157.50	161.80
05			CONSTRUCTION											
50			Construction											
			TOTAL	207.80	262.00	331.00	370.00	406.00	423.00	385.00	370.10	379.80	446.00	540.00

TUNISIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dinars)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			SUB-TOTAL	621.70	745.40	905.90	1010.40	1147.20	1280.20	1365.60	1450.00	1761.90	1935.70	2120.40
			SUB-TOTAL											
63	Restaurants and hotels													
	631	Restaurants, cafes and other eating and drinking places												
	632	Hotels, rooming houses, camps and other lodging places												
			TOTAL a/	13677.40	15653.40	19023.90	21218.40	24091.20	26884.20	28577.60	30450.00	36999.90	40649.70	44528.40
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
	711	Land transport								302.64	387.50	464.62	504.79	539.95
		7111	Railway transport											
		7112	Urban, suburban and inter-urban highway passenger transport							32.35	37.31	47.92	44.00	49.66
		7113	Other passenger land transport							82.36	91.00	104.83	123.49	143.67
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport							41.61	66.95	66.91	70.41	70.60
	712	Water transport								57.66	60.54	83.52	99.48	98.02
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport								88.66	131.70	161.44	167.41	178.00
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications									76.65	83.93	104.45	113.20	123.00
			TOTAL	170.20	191.30	220.00	273.10	327.50	361.00	379.29	471.43	569.07	617.99	662.95
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
	810	Financial institutions												
		8101	Monetary institutions											
		8102	Other financial institutions											
		8103	Financial service activities											
82	Insurance													
			SUB-TOTAL											
83	Real estate and business services													
	831	Real estate												
			SUB-TOTAL											
	832	Business services except machinery and equipment rental and leasing		163.00	194.30	221.10	239.90	249.40	265.80	302.40	330.00	349.20	377.90	518.00
		8321	Legal activities											
		8322	Accounting, bookkeeping and auditing activities; tax consultancy											
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities											
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
	833	Machinery and equipment rental and leasing												
			TOTAL	163.00	194.30	221.10	239.90	249.40	265.80	302.40	330.00	349.20	377.90	518.00

TUNISIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dinars)

Draft - prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities			368.50	447.80	571.30	674.40	731.60	805.50	869.40	940.70	1014.30	1180.70	1313.00
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
96	Extraterritorial organizations and bodies													
	(includes restaurants & hotels, finance, insurance & business services)													
00	ACTIVITIES NOT ADEQUATELY DEFINED													
	TOTAL d/			507.40	608.40	755.90	887.20	928.40	1031.00	1079.40	1244.90	1388.30	1587.70	1745.00
GDP at Factor Cost				TOTAL										
	Indirect taxes net of subsidies			3064.10	3640.70	4226.70	4763.10	5370.20	6032.10	6068.86	6946.92	7525.57	8469.10	9711.95
GDP at Market Cost				476.40	521.30	577.70	737.40	821.00	865.80	935.00	1012.00	1097.80	1092.60	1256.00
				3540.50	4162.00	4804.40	5500.50	6191.20	6897.90	7003.86	7958.92	8623.37	9561.70	10967.95

a/ Restaurants and hotels are included in "09 Community, social and personal services."

b/ 1986-90 figures include railway transport (7111) and all forms of land transport (7112-7114)

c/ Real estate refers to owner-occupied dwellings and rent only.

d/ "09 Community, social and personal services" includes restaurants & hotels, finance, insurance and business services.

Source: *Annexe Statistique au rapport sur le Budget Economique 1991*

Annuaire Statistique de la Tunisie Année 1985 Vol. No. 30

United Nations National Accounts Statistics: Main Aggregates and Detailed Tables 1989, V.I-II

Data for 1980-1985 are from the UN National Accounts Statistics: Main Aggregates and Detailed Tables 1989, with the exception of 1983-1985 manufacturing (03) and its disaggregations.

Data for 1983-1985 manufacturing (03) and its disaggregations are from the *Annuaire Statistique de la Tunisie Année 1985 Vol. No. 30*

Data for 1986-1990 are from the *Annexe Statistique au rapport sur le Budget Economique 1991*.

TUNISIA Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
			111 Agricultural and livestock production											
			112 Agricultural service activities											
			113 Hunting, trapping and game propagation											
12	Forestry and logging													
			121 Forestry											
			122 Logging											
13	Fishing													
			1301 Ocean and coastal fishing											
			1302 Fishing n.e.c.											
			TOTAL	152.0	153.0	153.5	154.0	154.7	155.4	154.9	154.1	153.6		
02	MINING AND QUARRYING													
210	Coal Mining													
			2101 Mining and agglomeration of hard coal											
			2102 Mining and agglomeration of lignite											
220	Crude petroleum and natural gas production													
			2201 On-site gasification of coal											
			2202 Extraction of crude petroleum and natural gas											
230	Metal ore mining													
			2301 Mining of iron ores											
			2302 Non-ferrous ore mining											
290	Other mining													
			2901 Stone quarrying, clay and sand pits											
			2902 Mining of chemical and fertilizer materials											
			2903 Extraction of salt											
			2909 Mining and quarrying n.e.c.											
			<i>includes petroleum refineries</i>											
			TOTAL	19.3	19.6	19.8	19.9	20.0	18.9	17.4	16.7	15.8		
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco													
			311-2 Food manufacturing	25.0	28.4	30.6	33.0	35.2	37.6	39.2	41.1	42.5		
			3111 Slaughtering, preparing and preserving meat											
			3112 Manufacture of dairy products											
			3113 Canning and preserving of fruits and vegetables											
			3114 Canning, preserving and processing of fish, crustacea and similar foods											
			3115 Manufacture of vegetable and animal oils and fats											
			3116 Grain mill products											
			3117 Manufacture of bakery products											
			3118 Sugar factories and refineries											
			3119 Manufacture of cocoa, chocolate and sugar confectionery											
			3121 Manufacture of food products n.e.c.											
			3122 Manufacture of prepared animal feeds											
			313 Beverage industries											
			3131 Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials											
			3132 Manufacture of wines											
			3133 Manufacture of malt liquors and malt											
			3134 Manufacture of soft drinks; production of mineral waters											
			314 Manufacture of tobacco products											

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TUNISIA

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft - prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles													
	321		Manufacture of textiles	SUB-TOTAL	83.2	89.1	94.3	99.8	104.5	109.9	114.7	118.7	122.9	
		3211	Spinning, weaving and finishing textiles											
		3212	Manufacture of made-up textile goods except wearing apparel											
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs											
		3215	Manufacture of cordage, rope, twine and netting											
		3219	Manufacture of textiles n.e.c.											
	322		Man. of wearing apparel, except footwear											
	323		Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel											
		3231	Tanning and dressing of leather											
		3232	Fur dressing and dyeing industries											
		3233	Manufacture of luggage, handbags and the like, saddlery and harness											
	324		Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear											
33	Manufacture of wood and wood products, including furniture			SUB-TOTAL							17.8	18.6	19.5	
		3311	Sawmills, planing and other wood mill											
		3312	Manufacture of wooden and cane containers and small cane ware											
		3319	Manufacture of wood and cork products n.e.c.											
		3320	Manufacture of furniture and fixtures, except primarily of metal											
34	Manufacture of paper and paper products, printing and publishing			SUB-TOTAL							14.8	16.0	17.6	
	341		Manufacture of paper and paper products											
		3411	Manufacture of pulp, paper and paperboard											
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.											
	342		Printing, publishing and allied industries											
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products	b/		SUB-TOTAL	12.6	13.3	13.9	14.7	15.2	15.9	24.3	25.0	26.4	
	351		Manufacture of industrial chemicals											
		3511	Manufacture of basic industrial chemicals except fertilizers											
		3512	Manufacture of fertilizers and pesticides											
		3513	Manufacture of synthetic resins, plastics materials and man-made fibres except glass											
	352		Man. of other chemical products											
		3521	Man. of paints, varnishes and lacquers											
		3522	Man. of drugs and medicines											
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
		3529	Man. of chemical products n.e.c.											
	353		Petroleum refineries											
	354		Man. of miscellaneous products of petroleum and coal											
	355		Man. of rubber products											
		3551	Tyre and tube industries											
		3559	Manufacture of rubber products n.e.c.											
	356		Man. of plastic products n.e.c.											
36	Manufacture of non-metallic mineral products, except products of petroleum and coal	c/		SUB-TOTAL	26.1	27.8	29.2	30.5	31.7	32.8	7.8	8.1	8.9	
	361		Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)								33.8	34.6	36.3	
	362		Manufacture of glass and glass products											
	369		Man. of other non-metallic mineral products											
		3691	Manufacture of structural clay products											
		3692	Manufacture of cement, lime and plaster											
		3699	Manufacture of non-metallic mineral products											

TUNISIA Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft - prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37	Basic metal industries													
			SUB-TOTAL							9.0	9.2	9.1		
		371	Iron and steel basic industries											
		372	Non-ferrous metal basic industries											
38	Man. of fabricated metal products, machinery and equipment	d/												
			SUB-TOTAL	35.5	38.8	40.5	42.5	44.3	46.3	38.8	40.1	42.3		
		381	Man. of fabricated metal products, except machinery and equipment											
		3811	Manufacture of cutlery, hand tools and general hardware											
		3812	Manufacture of furniture and fixtures primarily of metal											
		3813	Manufacture of structural metal products											
		3819	Manufacture of fabricated metal products except machinery and equipment n.e.c.											
		382	Man. of machinery except electrical											
		3821	Manufacture of engines and turbines											
		3822	Manufacture of agricultural and forestry machinery											
		3823	Manufacture of metal and wood working machinery											
		3824	Manufacture of special industrial machinery and equipment except metal and wood working machinery											
		3825	Manufacture of office, computing and accounting machinery											
		3829	Machinery and equipment except electrical n.e.c.											
		383	Man. of electrical machinery apparatus, appliances and supplies											
		3831	Manufacture of electrical industrial machinery and apparatus											
		3832	Manufacture of radio, television and communications equipment and apparatus											
		3833	Manufacture of electrical appliances and housewares											
		3839	Manufacture of electrical apparatus and supplies											
		384	Man. of transport equipment											
		3841	Ship building and repairing											
		3842	Manufacture of locomotives and rolling stocks											
		3843	Manufacture of motor vehicles											
		3844	Manufacture of motorcycles and bicycles											
		3845	Manufacture of aircraft											
		3849	Manufacture of transport equipment											
		385	Man. of prof. & scientific and measuring & controlling equip. not elsewhere classified, and of photographic & optical goods											
		3851	Manufacture of professional and scientific, and measuring and controlling equipment											
		3852	Manufacture of photographic and optical goods											
		3853	Manufacture of watches and clocks											
39	Other manufacturing industries	e/												
			SUB-TOTAL	26.7	29.6	32.0	34.8	37.2	40.3	2.1	2.2	2.3		
		390	Other manufacturing industries											
		3901	Manufacture of jewellery and related articles											
		3902	Manufacture of musical instruments											
		3903	Manufacture of sporting and athletic goods											
		3909	Manufacturing industries n.e.c.											
			TOTAL	209.1	227.0	240.5	255.3	268.1	282.8	294.5	305.5	318.8		
04	ELECTRICITY, GAS AND WATER SUPPLY													
41	Electricity, gas, steam													
			SUB-TOTAL	5.8	6.2	6.8	7.4	7.6	7.9	8.2	8.3	8.4		
		410	Electricity, gas and steam											
		4101	Production, collection and distribution of electricity											
		4102	Manufacture of gas; distribution of gaseous fuels through mains											
		4103	Steam and hot water supply											
42	Water works and supply													
			SUB-TOTAL	3.8	4.0	4.4	4.7	4.8	5.0	5.2	5.3	5.4		
		420	Collection, purification and distribution of water											
			TOTAL	9.6	10.2	11.2	12.1	12.4	12.9	13.4	13.6	13.8		
05	CONSTRUCTION													
50	Construction													
			TOTAL	154.5	160.8	162.8	164.3	167.3	167.3	165.3	164.3	164.3		

TUNISIA Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities			192.9	201.9	215.2	230.8	241.8	253.8	256.8	261.8	268.8		
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
96	Extraterritorial organizations and bodies													
			includes tourism and other services											
00	ACTIVITIES NOT ADEQUATELY DEFINED													
			TOTAL f/	284.7	295.3	311.5	329.3	345.0	360.5	369.0	381.0	394.0		
			Total Employment											
			TOTAL	940.9	981.8	1018.1	1057.1	1094.2	1127.1	1148.0	1172.6	1201.6		

a/ Figures for Mining and Quarrying (02) include petroleum refineries (353)

b/ Figures for 1986-88 include population employed in manufacturing of plastic products (356)

c/ Figures include population employed in quarrying

d/ Figure: for 1980-85 include population employed in basic metal industries (37)

e/ Figures for 1980-85 include population employed in manufacturing of wood & wood products (33), paper & paper products (34), plastic products (356), and other manufacturing industries (90)

f/ Totals for "09 Community, social and personal services" include public administration and defense, tourism and other services.

Source: Republic of Tunisia, Country Economic Memorandum: The Road to an Outward-Oriented Economy Vol. V: Annex 4, March 1990, World Bank

TUNISIA: Gross Domestic Product, 1987-1990

(millions Tunisian dinars, current prices)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	500	569	632	677	823	1,040	933	1,226	1,018	1,172	1,580
02 Mining	423	514	561	610	669	701	603	658	676	784	816
03 Manufacturing	417	494	534	614	731	827	894	1,061	1,238	1,390	1,567
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	134	186	192	217	232	258	265	321
32 Textiles	NA	NA	NA	161	171	197	237	292	334	411	491
33 Wood products	NA	NA	NA	NA	NA	NA	58	65	71	82	97
34 Paper products	NA	NA	NA	NA	NA	NA	48	56	64	73	86
Chemicals and machinery											
35 Chemicals	NA	NA	NA	39	44	52	68	126	177	175	130
38 Machinery/equipment	NA	NA	NA	92	109	129	110	120	135	157	186
Other manufacturing											
36, 37, 39 Other a/	NA										
04 Energy	54	62	66	82	89	103	128	135	145	158	162
05 Construction	208	262	331	370	406	423	385	370	380	446	540
Services	1,462	1,739	2,103	2,411	2,653	2,938	3,127	3,496	4,068	4,519	5,046
Total GDP	3,064	3,641	4,227	4,763	5,370	6,032	6,069	6,947	7,526	8,469	9,712

a/ Other manufacturing for 1983-85 include 33, 34, 36, 37, 39

TUNISIA: Share of Agribusiness (Excluding Wearing Apparel and Printing), 1987-1990

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	100%	100%	100%	100%						
02 Mining	NA	10%	13%	14%	10%						
03 Manufacturing	NA	51%	53%								
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	NA	NA	NA	50%	49%	48%	47%	46%
33 Wood products	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
34 Paper products	NA	NA	NA	NA	NA	NA	76%	77%	77%	76%	76%
Chemicals and machinery											
35 Chemicals	NA	32%	37%	43%	55%						
38 Machinery/equipment	NA	25%	21%	22%	24%						
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	NA	NA	NA	0%	0%	0%	0%	0%
04 Energy	NA	23%	26%								
05 Construction	NA	23%	26%								
Services	NA	25%	27%								
Total GDP	NA	39%	42%								

TUNISIA: Gross Domestic Product, 1987-1990

(millions Tunisian dinars, current prices)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	500	569	632	677	823	1,040	933	1,226	1,018	1,172	1,580
02 Mining	423	514	561	610	669	701	603	658	676	784	816
03 Manufacturing	417	494	534	614	731	827	894	1,061	1,238	1,390	1,567
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	134	186	192	217	232	258	265	321
32 Textiles	NA	NA	NA	161	171	197	237	292	334	411	491
33 Wood products	NA	NA	NA	NA	NA	NA	58	65	71	82	97
34 Paper products	NA	NA	NA	NA	NA	NA	48	56	64	73	86
Chemicals and machinery											
35 Chemicals	NA	NA	NA	39	44	52	68	126	177	175	130
38 Machinery/equipment	NA	NA	NA	92	109	129	110	120	135	157	186
Other manufacturing											
36, 37, 39 Other a/	NA										
04 Energy	54	62	66	82	89	103	128	135	145	158	162
05 Construction	208	262	331	370	406	423	385	370	380	446	540
Services	1,462	1,739	2,103	2,411	2,653	2,938	3,127	3,496	4,068	4,519	5,046
Total GDP	3,064	3,641	4,227	4,763	5,370	6,032	6,069	6,947	7,526	8,469	9,712

a/ Other manufacturing for 1983-85 include 33, 34, 36, 37, 39

TUNISIA: Share of Agribusiness (Including Wearing Apparel and Printing), 1987-1990

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
02 Mining	NA	10%	13%	14%	10%						
03 Manufacturing	NA	65%	64%	66%	68%						
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	NA	NA	NA	89%	89%	91%	93%	89%
33 Wood products	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
34 Paper products	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	NA	32%	37%	43%	55%						
38 Machinery/equipment	NA	27%	24%	24%	27%						
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	NA	NA	NA	0%	0%	0%	0%	0%
04 Energy	NA	28%	25%	26%	28%						
05 Construction	NA	28%	25%	26%	28%						
Services	NA	31%	27%	28%	30%						
Total GDP	NA	46%	42%	43%	46%						

TUNISIA: Employment Generated by Economic Activities

**EMPLOYED POPULATION
(In Thousands of Employees)**

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	152	153	154	154	155	155	155	154	154	NA	NA
02 Mining	19	20	20	20	20	19	17	17	16	NA	NA
03 Manufacturing	209	227	241	255	268	283	295	306	319	NA	NA
Agroindustry											
31 Food, beverages, tobacco	25	28	31	33	35	38	39	41	43	NA	NA
32 Textiles	83	89	94	100	105	110	115	119	123	NA	NA
33 Wood products	NA	NA	NA	NA	NA	NA	18	19	19	NA	NA
34 Paper products	NA	NA	NA	NA	NA	NA	15	16	18	NA	NA
Chemicals and machinery											
35 Chemicals	13	13	14	15	15	16	24	25	26	NA	NA
38 Machinery/equipment	36	39	41	43	44	46	39	40	42	NA	NA
Other manufacturing											
36, 37, 39 Other a/	53	57	61	65	69	73	45	46	48	NA	NA
04 Energy	10	10	11	12	12	13	13	14	14	NA	NA
05 Construction	155	161	163	164	167	167	165	164	164	NA	NA
Services	396	411	430	452	472	490	503	518	535	NA	NA
Total EMP	941	982	1,018	1,057	1,094	1,127	1,148	1,173	1,202	NA	NA

a/ Other manufacturing for 1983-85 include 33, 34, 36, 37, 39

Share of Agribusiness Excluding Manufacture of Apparel and Printing

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	100%	100%	100%	100%						
02 Mining	NA	10%	13%	14%	10%						
03 Manufacturing	NA	51%	53%								
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	NA	NA	NA	50%	49%	48%	47%	46%
33 Wood products	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
34 Paper products	NA	NA	NA	NA	NA	NA	76%	77%	77%	76%	76%
Chemicals and machinery											
35 Chemicals	NA	32%	37%	43%	55%						
38 Machinery/equipment	NA	25%	21%	22%	24%						
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	NA	NA	NA	0%	0%	0%	0%	0%
04 Energy	NA	23%	26%								
05 Construction	NA	23%	26%								
Services	NA	25%	27%								
Total Economy	NA	39%	42%								

TUNISIA: Employment Generated by Economic Activities

EMPLOYED POPULATION
(In Thousands of Employees)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	152	153	154	154	155	155	155	154	154	NA	NA
02 Mining	19	20	20	20	20	19	17	17	16	NA	NA
03 Manufacturing	209	227	241	255	268	283	295	306	319	NA	NA
Agroindustry											
31 Food, beverages, tobacco	25	28	31	33	35	38	39	41	43	NA	NA
32 Textiles	83	89	94	100	105	110	115	119	123	NA	NA
33 Wood products	NA	NA	NA	NA	NA	NA	18	19	19	NA	NA
34 Paper products	NA	NA	NA	NA	NA	NA	15	16	18	NA	NA
Chemicals and machinery											
35 Chemicals	13	13	14	15	15	16	24	25	26	NA	NA
38 Machinery/equipment	36	39	41	43	44	46	39	40	42	NA	NA
Other manufacturing											
36, 37, 39 Other a/	53	57	61	65	69	73	45	46	48	NA	NA
04 Energy	10	10	11	12	12	13	13	14	14	NA	NA
05 Construction	155	161	163	164	167	167	165	164	164	NA	NA
Services	396	411	430	452	472	490	503	518	535	NA	NA
Total EMP	941	982	1,018	1,057	1,094	1,127	1,148	1,173	1,202	NA	NA

a/ Other manufacturing for 1983-85 include 33, 34, 36, 37, 39

TUNISIA: Share of Agribusiness Including Manufacture of Apparel and Printing

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
02 Mining	NA	10%	13%	14%	10%						
03 Manufacturing	NA	NA	NA	NA							
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	NA	NA	NA	89%	89%	91%	93%	89%
33 Wood products	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
34 Paper products	NA	NA	NA	NA	NA	NA	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	NA	32%	37%	43%	55%						
38 Machinery/equipment	NA	27%	24%	24%	27%						
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	NA	NA	NA	0%	0%	0%	0%	0%
04 Energy	NA	28%	25%	26%	28%						
05 Construction	NA	28%	25%	26%	28%						
Services	NA	31%	27%	28%	30%						
Total Economy	NA	46%	42%	43%	46%						

MOROCCO: Traditional Sectors of GDP 1980–1989
(Value Added at Factor Cost in Current Prices, Millions of Dirhams)

Year	Agriculture	Industry	Services	Total GDP
1980	12,711	22,646	30,562	65,919
1981	11,422	25,762	34,176	71,360
1982	16,256	28,457	38,995	83,708
1983	16,130	30,093	42,034	88,257
1984	17,547	33,458	47,514	98,519
1985	21,497	43,239	64,770	129,506
1986	29,526	49,942	75,258	154,726
1987	23,992	51,511	82,854	158,356
1988	30,940	60,588	88,953	180,481
1989	31,230	64,008	94,772	190,011

**MOROCCO: Contribution of Agribusiness to GDP, excluding
wearing apparel and printing 1980-1989**
(Value Added at Factor Cost in Current Prices, Millions of Dirhams)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1980	35,082	11,388	19,449	65,919
1981	35,729	13,025	22,606	71,360
1982	44,049	14,663	24,996	83,708
1983	45,217	15,594	27,446	88,257
1984	50,390	17,010	31,119	98,519
1985	63,389	22,480	43,637	129,506
1986	75,959	28,365	50,402	154,726
1987	69,497	29,877	58,982	158,356
1988	84,265	36,083	61,133	180,481
1989	87,146	37,093	65,771	190,011

**MOROCCO: Contribution of Agribusiness to GDP, including
wearing apparel and printing 1980-1989**
(Value Added at Factor Cost in Current Prices, Millions of Dirhams)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1980	36,220	10,611	19,089	65,919
1981	37,018	12,154	22,188	71,360
1982	45,436	13,716	24,555	83,708
1983	46,746	14,558	26,953	88,257
1984	52,050	15,890	30,579	98,519
1985	65,706	20,936	42,864	129,506
1986	78,475	26,672	49,579	154,726
1987	72,277	28,052	58,027	158,356
1988	87,322	33,035	60,124	180,481
1989	90,486	34,865	64,660	190,011

MOROCCO: Components of Agribusiness, excluding wearing apparel and printing 1980-1989

(Value Added at Factor Cost in Current Prices, Millions of Dirhams)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1980	12,711	5,377	5,881	11,113	35,082
1981	11,422	6,006	6,730	11,570	35,729
1982	16,256	6,523	7,271	13,999	44,049
1983	16,130	7,143	7,357	14,588	45,217
1984	17,547	7,772	8,676	16,395	50,390
1985	21,497	10,759	10,000	21,134	63,389
1986	29,526	11,902	9,675	24,856	75,959
1987	23,992	12,798	8,836	23,872	69,497
1988	30,940	14,312	11,192	27,820	84,265
1989	31,230	15,481	11,434	29,001	87,146

MOROCCO: Components of Agribusiness, including wearing apparel and printing 1980-1989

(Value Added at Factor Cost in Current Prices, Millions of Dirhams)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1980	12,711	6,052	5,983	11,473	36,220
1981	11,422	6,761	6,848	11,988	37,018
1982	16,256	7,342	7,398	14,440	45,436
1983	16,130	8,040	7,495	15,081	46,746
1984	17,547	8,748	8,819	16,935	52,050
1985	21,497	12,111	10,192	21,906	65,706
1986	29,526	13,398	9,872	25,679	78,475
1987	23,992	14,406	9,053	24,827	72,277
1988	30,940	16,111	11,442	28,829	87,322
1989	31,230	17,427	11,716	30,113	90,486

MOROCCO: Contribution of Manufacturing to Employment 1983-1988
(1,000 persons)

Manufacturing	1983	1984	1985	1986	1987	1988
Agroindustry	133	171	183	203	221	250
Inputs	21	25	25	29	30	34
Equipment	34	36	39	41	41	44
Others	19	24	24	24	29	27
Total Manufacturing	207	256	271	297	321	355

MOROCCO: Contribution of Agribusiness to Employment in Manufacturing, with Agribusiness excluding wearing apparel and printing 1983-1988
(1,000 persons)

Agribusiness	1983	1984	1985	1986	1987	1988
Agroindustry	108	143	153	169	183	206
Inputs	2	3	3	2	2	2
Equipment	9	10	10	11	10	11
Total Agribusiness	119	156	166	182	195	219

MOROCCO: Contribution of Agribusiness to Employment in Manufacturing, with Agribusiness including wearing apparel and printing 1983-1988
(1,000 persons)

Agribusiness	1983	1984	1985	1986	1987	1988
Agroindustry	128	165	177	196	213	241
Inputs	2	3	3	2	2	2
Equipment	9	10	10	12	10	12
Total Agribusiness	139	178	190	210	225	255

MOROCCO Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dirhams)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
			Sub-total											
	111		Agricultural and livestock production											
	112		Agricultural service activities											
	113		Hunting, trapping and game propagation											
12	Forestry and logging													
			Sub-total											
	121		Forestry											
	122		Logging											
13	Fishing													
			Sub-total											
	1301		Ocean and coastal fishing											
	1302		Fishing n.e.c.											
			TOTAL	12711.00	11422.00	16256.00	16130.00	17547.00	21497.30	29525.50	23991.60	30940.10	31230.00	NA
02	MINING AND QUARRYING													
210	Coal Mining													
			Sub-total											
	2101		Mining and agglomeration of hard coal											
	2102		Mining and agglomeration of lignite											
220	Crude petroleum and natural gas production													
			Sub-total	93.00	127.00	157.00	214.00	276.00	390.60	416.60	354.90	369.50	310.40	
	2201		On-site gasification of coal											
	2202		Extraction of crude petroleum and natural gas											
230	Metal ore mining													
			Sub-total											
	2301		Mining of iron ores											
	2302		Non-ferrous ore mining											
290	Other mining													
			Sub-total											
	2901		Stone quarrying, clay and sand pits											
	2902		Mining of chemical and fertilizer materials											
	2903		Extraction of salt											
	2909		Mining and quarrying n.e.c.											
			TOTAL	3520.00	4382.00	4193.00	4210.00	5531.00	6019.10	4963.90	4346.50	5612.30	5236.10	NA
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco													
			Sub-total	3187.53	3560.69	3866.97	4234.29	4607.45	6378.30	7056.04	7587.14	8484.91	9178.20	0
311-2	Food manufacturing													
			Sub-total											
	3111		Slaughtering, preparing and preserving meat	5.83	6.51	7.07	7.75	8.43	11.67	12.91	13.88	15.52	16.79	
	3112		Manufacture of dairy products	181.45	202.69	220.13	241.04	262.28	363.08	401.66	431.90	483.00	522.47	
	3113		Canning and preserving of fruits and vegetables	196.54	219.55	238.44	261.09	284.09	393.28	435.07	467.82	523.18	565.93	
	3114		Canning, preserving and processing of fish, crustacea and similar foods	199.17	222.49	241.63	264.58	287.90	398.55	440.89	474.08	530.18	573.50	
	3115		Manufacture of vegetable and animal oils and fats	258.17	288.39	313.20	342.95	373.17	516.60	571.49	614.51	687.22	743.37	
	3116		Grain mill products	232.19	259.37	281.68	308.44	335.62	464.62	513.99	552.67	618.07	668.57	
	3117		Manufacture of bakery products	106.99	119.51	129.80	142.12	154.65	214.09	236.84	254.66	284.80	308.07	
	3118		Sugar factories and refineries	882.60	985.93	1070.73	1172.44	1275.77	1766.10	1953.76	2100.82	2349.40	2541.37	
	3119		Manufacture of cocoa, chocolate and sugar	42.87	47.89	52.01	56.95	61.97	85.79	94.90	102.05	114.12	123.45	
	3121		Manufacture of food products n.e.c.	232.33	259.53	281.85	308.62	335.82	464.89	514.29	553.00	618.44	668.97	
	3122		Manufacture of prepared animal feeds	69.86	78.04	84.75	92.80	100.98	139.79	154.64	166.28	185.96	201.15	
313	Beverage industries													
			Sub-total											
	3131		Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials	11.85	13.23	14.37	15.74	17.13	23.71	26.23	28.20	31.54	34.11	
	3132		Manufacture of wines	75.45	84.28	91.53	100.23	109.06	150.98	167.02	179.59	200.84	217.25	
	3133		Manufacture of malt liquors and malt	140.14	156.55	170.02	186.17	202.57	280.43	312.23	333.58	373.05	403.53	
	3134		Manufacture of soft drinks; production of mineral waters	188.78	210.88	229.02	250.78	272.88	377.76	417.90	449.35	502.52	543.58	
314	Manufacture of tobacco products													
			Sub-total	363.30	405.83	440.74	482.61	525.14	726.97	804.22	864.75	967.07	1046.09	

MOROCCO Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of dirhams)

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		Sub-total	1987.66	2220.35	2411.34	2640.39	2873.08	3977.33	4399.95	4731.13	5290.95	5723.27	0.00
	321		Manufacture of textiles											
		3211	Spinning, weaving and finishing textiles	870.83	972.77	1056.45	1156.80	1258.75	1742.54	1927.67	2072.79	2318.06	2507.46	
		3212	Manufacture of made-up textile goods except wearing apparel	117.50	131.25	142.54	156.08	169.84	235.11	260.09	279.67	312.76	338.32	
		3213	Manufacture of knitted and crocheted fabrics and articles	141.40	157.96	171.54	187.84	204.39	282.95	313.01	336.57	376.40	407.15	0.00
		3214	Manufacture of carpets and rugs	60.04	67.07	72.84	79.75	86.78	120.14	132.90	142.91	159.82	172.87	
		3215	Manufacture of cordage, rope, twine and netting	71.1765	79.5091	86.3482	94.5504	102.882	142.425	157.559	169.418	189.465	204.946	
		3219	Manufacture of textiles n.e.c.	97.3923	108.793	118.152	129.375	140.776	194.883	215.591	231.818	259.249	280.432	0
	322		Man. of wearing apparel, except footwear	293.04	327.35	355.51	389.28	423.58	586.39	648.69	697.52	780.06	843.79	
	323		Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel											
		3231	Tanning and dressing of leather	91.33	102.03	110.80	121.33	132.02	182.76	202.18	217.40	243.12	262.99	
		3232	Fur dressing and dyeing industries											
		3233	Manufacture of luggage, handbags and the like, saddlery and harness	41.97	46.88	50.91	55.75	60.66	83.98	92.90	99.89	111.71	120.84	
	324		Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear	202.98	226.74	245.24	269.64	293.40	406.16	449.32	483.14	540.31	584.46	
33	Manufacture of wood and wood products, including furniture		Sub-total	407.14	454.80	493.92	540.84	588.50	814.69	901.26	969.10	1083.77	1172.32	0.00
		3311	Saw mills, planing and other wood mills	161.51	180.42	195.94	214.55	234.46	323.19	357.53	384.44	429.93	465.06	0.00
		3312	Manufacture of wooden and cane containers and small cane ware	84.64	94.55	102.69	112.44	122.35	169.37	187.37	201.48	225.31	243.73	0.00
		3319	Manufacture of wood and cork products n.e.c.	47.59	53.17	57.74	63.22	68.80	95.24	105.36	113.29	126.69	137.04	0.00
		3320	Manufacture of furniture and fixtures, except primarily of metal	113.39	126.66	137.56	150.62	163.90	226.89	251.00	269.89	301.83	326.49	
34	Manufacture of paper and paper products, printing and publishing		Sub-total	604.103	674.824	732.871	802.486	873.208	1208.81	1337.26	1437.92	1608.06	1739.45	0
	341		Manufacture of paper and paper products											
		3411	Manufacture of pulp, paper and paperboard	198.81	222.08	241.19	264.10	287.37	397.82	440.09	473.22	529.21	572.46	
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.	200.74	224.24	243.53	266.67	290.17	401.69	444.37	477.82	534.36	578.02	
	342		Printing, publishing and allied industries	204.55	228.50	248.15	271.72	295.67	409.31	452.80	486.88	544.49	588.98	
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		Sub-total	3515.46	3942.40	4567.39	4857.23	5412.17	7404.40	12304.33	12373.24	15043.12	14950.77	0.00
	351		Manufacture of industrial chemicals											
		3511	Manufacture of basic industrial chemicals except fertilizers	736.30	822.50	893.25	978.10	1064.30	1473.35	1629.91	1752.59	1959.97	2120.11	
		3512	Manufacture of fertilizers and pesticides	266.33	297.51	323.10	353.80	384.98	532.94	589.57	633.94	708.96	766.88	
		3513	Manufacture of synthetic resins, plastics materials and man-made fibres except glass	168.49	188.22	204.41	223.83	243.55	337.16	372.98	401.06	448.51	485.16	
	352		Man. of other chemical products											
		3521	Man. of paints, varnishes and lacquers	135.20	151.03	164.02	179.60	195.43	270.54	299.29	321.81	359.89	389.30	
		3522	Man. of drugs and medicines	273.18	305.16	331.41	362.89	394.87	546.63	604.72	650.23	727.17	786.59	
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations	169.05	188.84	205.08	224.56	244.35	338.27	374.21	402.38	449.99	486.76	
		3529	Man. of chemical products n.e.c.	100.98	112.81	122.51	134.15	145.97	202.07	223.54	240.37	268.81	290.78	
	353		Petroleum refineries	1278.00	1443.00	1853.00	1885.00	2178.00	2927.20	7351.40	7047.50	9087.20	8508.20	
	354		Man. of miscellaneous products of petroleum and coal											
	355		Man. of rubber products											
		3551	Tyre and tube industries	212.23	237.08	257.47	281.93	306.77	424.68	469.81	505.17	564.94	611.10	
		3559	Manufacture of rubber products n.e.c.	53.53	59.80	64.94	71.11	77.38	107.12	118.50	127.42	142.50	154.14	
	356		Man. of plastics products n.e.c.	122.16	136.46	148.20	162.27	176.57	244.44	270.41	290.77	325.17	351.74	
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		Sub-total	1407.57	1572.36	1707.60	1869.81	2034.59	2816.57	3115.86	3350.38	3746.83	4052.98	0.00
		361	Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)	69.82	77.99	84.70	92.74	100.92	139.70	154.55	166.18	185.84	201.03	
		362	Manufacture of glass and glass products	55.32	61.79	67.11	73.48	79.96	110.69	122.45	131.67	147.25	159.28	
		369	Man. of other non-metallic mineral products											
		3691	Manufacture of structural clay products	61.65	68.87	74.79	81.90	89.12	123.37	136.47	146.75	164.11	177.52	
		3692	Manufacture of cement, lime and plaster	1105.23	1234.61	1340.81	1468.17	1597.56	2211.57	2446.57	2630.72	2942.01	3182.40	
		3699	Manufacture of non-metallic mineral products	115.56	129.09	140.19	153.51	167.04	231.24	255.81	275.07	307.61	332.75	

MOROCCO Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
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Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37			Basic metal industries											
			Sub-total	217.38	242.83	263.72	288.77	314.22	434.98	481.20	517.42	578.65	625.93	0.00
		371	Iron and steel basic industries	184.97	206.62	224.40	245.71	267.37	370.13	409.46	440.28	492.37	532.60	
		372	Non-ferrous metal basic industries	32.41	36.21	39.32	43.06	46.85	64.86	71.75	77.15	86.28	93.33	
38			Man. of fabricated metal products, machinery and equipment											
			Sub-total	1944.48	2172.12	2358.96	2583.04	2810.68	3890.94	4304.39	4628.37	5176.04	5598.97	0.00
		381	Man. of fabricated metal products, except machinery and equipment											
		3811	Manufacture of cutlery, hand tools and general hardware	45.31	50.52	54.97	60.19	65.50	90.67	100.30	107.85	120.61	130.47	
		3812	Manufacture of furniture and fixtures primarily of metal	99.10	110.70	120.22	131.64	143.24	198.29	219.36	235.88	263.79	285.34	
		3813	Manufacture of structural metal products	291.06	325.14	353.11	386.65	420.72	582.43	644.31	692.81	74.79	838.09	0.00
		3819	Manufacture of fabricated metal products except machinery and equipment n.e.c.	308.79	344.94	374.61	410.20	446.35	617.90	683.55	735.00	821.97	889.14	0.00
		382	Man. of machinery except electrical											
		3821	Manufacture of engines and turbines	31.74	35.45	38.50	42.16	45.88	63.51	70.26	75.54	84.48	91.39	
		3822	Manufacture of agricultural and forestry machinery	8.59	9.59	10.42	11.41	12.41	17.18	19.01	20.44	22.86	24.73	
		3823	Manufacture of metal and woodworking machinery	2.17	2.42	2.63	2.88	3.13	4.34	4.80	5.16	5.77	6.24	
		3824	Manufacture of special industrial machinery and equipment except metal & woodworking mach.	170.06	189.97	206.31	225.91	245.82	340.30	376.45	404.79	452.69	489.68	
		3825	Manufacture of office, computing and accounting machinery	7.27	8.12	8.82	9.65	10.51	14.54	16.09	17.30	19.35	20.93	
		3829	Machinery and equipment except electrical n.e.c.	120.54	134.65	146.24	160.13	174.24	241.21	266.84	286.92	320.87	347.09	
		383	Man. of electrical machinery apparatus, appliances and supplies											
		3831	Manufacture of electrical industrial machinery and apparatus	53.61	59.88	65.03	71.21	77.49	107.27	118.67	127.60	142.70	154.36	
		3832	Manufacture of radio, television and communications equipment and apparatus	116.09	129.68	140.84	154.21	167.80	232.30	256.98	276.32	309.02	334.27	
		3833	Manufacture of electrical appliances and housewares	11.78	13.16	14.29	15.65	17.03	23.58	26.08	28.04	31.36	33.92	
		3839	Manufacture of electrical apparatus and supplies	211.25	235.98	256.28	280.62	305.35	422.71	467.63	502.82	562.32	608.27	
		384	Man. of transport equipment											
		3841	Ship building and repairing											
		3842	Manufacture of locomotives and rolling stock	44.63	49.86	54.15	59.29	64.51	89.31	98.80	106.24	118.81	128.52	
		3843	Manufacture of motor vehicles	381.28	425.91	462.55	506.48	551.12	762.94	844.01	907.53	1014.92	1097.85	
		3844	Manufacture of motorcycles and bicycles	20.96	23.31	25.31	27.72	30.16	41.75	46.19	49.66	55.54	60.08	
		3849	Manufacture of transport equipment											
		385	Man. of prof. & scientific and measuring & controlling equip. not else here classified, and of photographic & optical goods											
		3851	Manufacture of professional and scientific, and measuring and controlling equipment	20.36	22.74	24.69	27.04	29.42	40.73	45.06	48.45	54.18	58.61	
		3852	Manufacture of photographic and optical goods											
		3853	Manufacture of watches and clocks											
39			Other manufacturing industries											
			Sub-total	16.81	18.78	20.40	22.34	24.30	33.65	37.22	40.02	44.76	48.41	0.00
		390	Other manufacturing industries											
		3901	Manufacture of jewellery and related articles	5.26	5.88	6.39	6.99	7.61	10.53	11.65	12.53	14.01	15.16	
		3902	Manufacture of musical instruments											
		3903	Manufacture of sporting and athletic goods	6.92	7.73	8.39	9.19	10.00	13.84	15.31	16.43	18.41	19.92	
		3909	Manufacturing industries n.e.c.	4.63	5.17	5.62	6.15	6.70	9.27	10.25	11.03	12.33	13.34	
			TOTAL	13288.14	14859.16	16423.17	17839.19	19538.21	26959.69	33937.52	35634.74	41057.08	43090.31	NA
04			ELECTRICITY, GAS AND WATER SUPPLY											
41			Electricity, gas, steam											
			Sub-total											
		410	Electricity, gas and steam											
		4101	Production, collection and distribution of electricity											
		4102	Manufacture of gas; distribution of gaseous fuels through mains											
		4103	Steam and hot water supply											
42			Water works and supply											
		420	Collection, purification and distribution of water											
			TOTAL	997.00	1157.00	1244.00	1349.00	1486.00	2872.50	3372.30	4135.20	4779.80	5325.20	NA
05			CONSTRUCTION											
50			Construction											
			TOTAL	4841.00	5364.00	6597.00	6695.00	6903.00	7387.40	7668.20	7394.40	9138.90	10356.70	NA
			TOTAL	4841.00	5364.00	6597.00	6695.00	6903.00	7387.40	7668.20	7394.40	9138.90	10356.70	NA

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			Sub-total	9115.00	9597.00	10816.00	11331.00	12783.00	24930.70	31035.50	34427.50	35269.90	36541.50	
63	Restaurants and hotels													
			Sub-total	1064.00	1260.00	1516.00	1625.00	1902.00	2365.10	2710.60	2908.10	3040.80	3194.30	
	631	Restaurants, cafes and other eating and drinking places												
	632	Hotels, rooming houses, camps and other lodging places												
			TOTAL	10179.00	10857.00	12332.00	12956.00	14685.00	27295.80	33746.10	37335.60	38310.70	39735.80	NA
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
			Sub-total	3121.00	3429.00	3982.00	4478.00	5685.00	8323.10	9005.20	10510.20	12030.00	12699.90	
	711	Land transport												
		7111	Railway transport											
		7112	Urban, suburban and inter-urban highway passenger transport											
		7113	Other passenger land transport											
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport											
	712	Water transport												
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport												
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL	3121.00	3429.00	3982.00	4478.00	5685.00	8323.10	9005.20	10510.20	12030.00	12699.90	NA
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
			Sub-total	69.00	181.00	155.00	199.00	356.00	187.50	375.00	160.00	259.00	370.00	0.00
	810	Financial institutions												
		8101	Monetary institutions	1478.00	1823.00	2340.00	2469.00	3100.00	3862.00	4573.00	5195.00	5650.00	6354.00	
		8102	Other financial institutions											
		8103	Financial service activities	-1409.00	-1642.00	-2185.00	-2270.00	-2744.00	-3674.50	-4198.00	-5035.00	-5391.00	-5984.00	
82	Insurance													
			Sub-total	64.00	72.00	81.00	89.00	102.00						
83	Real estate and business services													
			Sub-total	8533.00	9679.00	10906.00	11817.00	13504.00	14126.90	15974.90	17029.80	18447.40	19188.60	
	831	Real estate												
	832	Business services except machinery and equipment rental and leasing												
		8321	Legal activities											
		8322	Accounting, bookkeeping and auditing activities; tax consultancy											
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities											
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
833	Machinery and equipment rental and leasing													
			TOTAL	8666.00	9932.00	11142.00	12105.00	13962.00	14314.40	16349.90	17189.80	18706.40	19558.60	NA

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities													
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
96	Extraterritorial organizations and bodies													
	TOTAL			8595.00	9958.00	11539.00	12495.00	13182.00	14837.00	16157.00	17818.00	19906.00	22778.00	NA
00	ACTIVITIES NOT ADEQUATELY DEFINED													
GDP at Factor Cost														
	Import duties and taxes			65919.14	71360.16	83708.17	88257.19	98519.21	129506.29	154725.62	158356.04	180481.28	190010.6	NA
GDP at Market Cost				4242.00	5377.00	6380.00	6378.00	7016.00	9046.70	11149.60	13770.20	13391.80	15381.00	
				70161.14	76737.16	90088.17	94635.19	105535.21	138552.99	165875.22	172126.24	193873.08	205391.61	NA

Source: Data are from Annuaire statistique au Maroc 1990, 1985.

MOROCCO Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing			SUB-TOTAL										
	111	Agricultural and livestock production												
	112	Agricultural service activities												
	113	Hunting, trapping and game propagation												
12	Forestry and logging			SUB-TOTAL										
	121	Forestry												
	122	Logging												
13	Fishing			SUB-TOTAL										
	1301	Ocean and coastal fishing												
	1302	Fishing n.e.c.												
	TOTAL				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02	MINING AND QUARRYING													
210	Coal Mining			SUB-TOTAL										
	2101	Mining and agglomeration of hard coal												
	2102	Mining and agglomeration of lignite												
220	Crude petroleum and natural gas production			SUB-TOTAL										
	2201	On-site gasification of coal												
	2202	Extraction of crude petroleum and natural gas												
230	Metal ore mining			SUB-TOTAL										
	2301	Mining of iron ores												
	2302	Non-ferrous ore mining												
290	Other mining													
	2901	Stone quarrying, clay and sand pits												
	2902	Mining of chemical and fertilizer materials												
	2903	Extraction of salt												
	2909	Mining and quarrying n.e.c.												
	TOTAL				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco			SUB-TOTAL	NA	NA	NA	44.32	68.47	75.90	82.49	85.90	96.02	NA
	311-2	Food manufacturing			NA	NA	NA	37.50	58.52	66.93	69.01	76.09	85.63	NA
	3111	Slaughtering, preparing and preserving meat												
	3112	Manufacture of dairy products												
	3113	Canning and preserving of fruits and vegetables												
	3114	Canning, preserving and processing of fish, crustacea and similar foods												
	3115	Manufacture of vegetable and animal oils and fats												
	3116	Grain mill products												
	3117	Manufacture of bakery products												
	3118	Sugar factories and refineries												
	3119	Manufacture of cocon, chocolate and sugar												
	3121	Manufacture of food products n.e.c.												
	3122	Manufacture of prepared animal feeds												
	313	Beverage industries					6.82	9.95	8.97	13.48	9.81	10.39		
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials												
	3132	Manufacture of wines								(ind 313)	(ind 313)	(ind 313)		
	3133	Manufacture of malt liquors and malt												
	3134	Manufacture of soft drinks; production of mineral waters												
	314	Manufacture of tobacco products												

MOROCCO Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		SUB-TOTAL	0.00	NA	NA	69.29	81.19	85.50	97.35	112.95	130.95	0.00	0.00
	321		Manufacture of textiles		NA	NA	43.83	47.99	48.71	51.54	55.76	63.77		
		3211	Spinning, weaving and finishing textiles											
		3212	Manufacture of made-up textile goods except wearing apparel											
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs											
		3215	Manufacture of cordage, rope, twine and netting											
		3219	Manufacture of textiles n.e.c.											
	322		Man. of wearing apparel, except footwear											
	323		Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel				16.40	21.92	24.92	33.34	43.85	52.37		
		3231	Tanning and dressing of leather				9.06	11.28	11.67	12.47	13.33	14.81		
		3232	Fur dressing and dyeing industries							(incl 324)	(incl 324)	(incl 324)		
		3233	Manufacture of luggage, handbags and the like, saddlery and harness											
	324		Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear											
33	Manufacture of wood and wood products, including furniture		SUB-TOTAL	0.00	0.00	0.00	(incl. in 323) 9.36	(incl. in 323) 10.86	(incl. in 323) 10.40	(incl. in 323) 11.76	(incl. in 323) 10.18	(incl. in 323) 11.11	0.00	0.00
		3311	Saw mills, planing and other wood mills											
		3312	Manufacture of wooden and cane containers and small cane ware											
		3319	Manufacture of wood and cork products n.e.c.											
		3320	Manufacture of furniture and fixtures, except primarily of metal											
34	Manufacture of paper and paper products, printing and publishing		SUB-TOTAL	0.00	0.00	0.00	9.55	10.16	11.31	11.48	11.96	12.09	0.00	0.00
	341		Manufacture of paper and paper products											
		3411	Manufacture of pulp, paper and paperboard											
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.											
	342		Printing, publishing and allied industries											
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		SUB-TOTAL	0.00	0.00	0.00	20.98	24.73	25.23	28.95	30.42	33.82	0.00	0.00
	351		Manufacture of industrial chemicals				14.13	16.71	18.08	21.10	22.28	23.19		
		3511	Manufacture of basic industrial chemicals except fertilizers											
		3512	Manufacture of fertilizers and pesticides											
		3513	Manufacture of synthetic resins, plastics materials and man-made fibres except glass											
	352		Man. of other chemical products				(incl. in 351)	(incl. in 351)	(incl. in 351)	(incl. in 351)	(incl. in 351)	(incl. in 351)	(incl. in 351)	(incl. in 351)
		3521	Man. of paints, varnishes and lacquers											
		3522	Man. of drugs and medicines											
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
		3529	Man. of chemical products n.e.c.											
	353		Petroleum refineries											
	354		Man. of miscellaneous products of petroleum and coal											
	355		Man. of rubber products 355 and 356				6.85	8.02	7.15	7.84	8.13	10.63		
		3551	Tyre and tube industries											
		3559	Manufacture of rubber products n.e.c.											
	356		Man. of plastics products n.e.c.				(incl. in 355)	(incl. in 355)	(incl. in 355)	(incl. in 355)	(incl. in 355)	(incl. in 355)	(incl. in 355)	(incl. in 355)
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		SUB-TOTAL	0.00	NA	NA	17.58	20.71	20.90	20.93	25.51	23.99	0.00	0.00
	361		Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)		NA	NA								
	362		Manufacture of glass and glass products											
	369		Man. of other non-metallic mineral products											
		3691	Manufacture of structural clay products											
		3692	Manufacture of cement, lime and plaster											
		3699	Manufacture of non-metallic mineral products											

MOROCCO Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37			Basic metal industries											
			SUB-TOTAL	0.00			1.48	2.64	3.34	2.53	2.85	2.40		0.00
		371	Iron and steel basic industries									1.35		
		372	Non-ferrous metal basic industries									1.05		
38			Man. of fabricated metal products, machinery and equipment				33.59	36.42	39.20	41.35	41.49	44.09	0.00	0.00
			SUB-TOTAL	0.00	NA	NA	33.59	36.42	39.20	41.35	41.49	44.09	0.00	0.00
		381	Man. of fabricated metal products, except machinery and equipment		NA	NA	15.40	17.28	17.76	18.19	16.64	18.31		
			3811 Manufacture of cutlery, hand tools and general hardware											
			3812 Manufacture of furniture and fixtures primarily of metal											
			3813 Manufacture of structural metal products											
			3819 Manufacture of fabricated metal products except machinery and equipment n.e.c.											
		382	Man. of machinery except electrical		NA	NA	3.84	4.86	5.98	6.43	6.61	5.90		
			3821 Manufacture of engines and turbines											
			3822 Manufacture of agricultural and forestry machinery											
			3823 Manufacture of metal and woodworking machinery											
			3824 Manufacture of special industrial machinery and equipment except metal and woodworking machinery											
			3825 Manufacture of office, computing and accounting machinery											
			3829 Machinery and equipment except electrical, n.e.c.											
		383	Man. of electrical machinery apparatus, appliances and supplies		NA	NA	7.53	7.90	8.76	9.27	9.71	10.54		
			3831 Manufacture of electrical industrial machinery and apparatus											
			3832 Manufacture of radio, television and communications equipment and apparatus											
			3833 Manufacture of electrical appliances and housewares											
			3839 Manufacture of electrical apparatus and supplies											
		384	Man. of transport equipment		NA	NA	6.33	5.77	6.18	6.93	7.65	8.39		
			3841 Ship building and repairing											
			3842 Manufacture of locomotives and rolling stock											
			3843 Manufacture of motor vehicles											
			3844 Manufacture of motorcycles and bicycles											
			3845 Manufacture of aircraft											
			3849 Manufacture of transport equipment											
		385	Man. of prof. & scientific and measuring & controlling equip. not elsewhere classified, and of photographic & optical		NA	NA	0.49	0.62	0.51	0.53	0.87	0.96		
			3851 Manufacture of professional and scientific, and measuring and controlling equipment											
			3852 Manufacture of photographic and optical goods											
			3853 Manufacture of watches and clocks											
39			Other manufacturing industries											
			SUB-TOTAL	0.00	NA	NA	0.244	0.382	0.482	0.622	0.435	0.637	0.00	0.00
		390	Other manufacturing industries											
			3901 Manufacture of jewellery and related articles											
			3902 Manufacture of musical instruments											
			3903 Manufacture of sporting and athletic goods											
			3909 Manufacturing industries n.e.c.											
			TOTAL		NA	NA	206.40	255.55	271.25	296.95	321.67	355.10	NA	NA
04			ELECTRICITY, GAS AND WATER SUPPLY											
41			Electricity, gas, steam											
			SUB-TOTAL											
		410	Electricity, gas and steam											
			4101 Production, collection and distribution of electricity											
			4102 Manufacture of gas; distribution of gaseous fuels through mains											
			4103 Steam and hot water supply											
42			Water works and supply											
			420 Collection, purification and distribution of water											
			TOTAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05			CONSTRUCTION											
50			Construction											
			TOTAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

MOROCCO Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			SUB-TOTAL											
63	Restaurants and hotels													
		631	Restaurants, cafes and other eating and drinking places											
		632	Hotels, rooming houses, camps and other lodging places											
			TOTAL	NA										
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
		711	Land transport											
			SUB-TOTAL	NA	NA		NA							
		7111	Railway transport											
		7112	Urban, suburban and inter-urban high way passenger transport											
		7113	Other passenger land transport											
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport											
		712	Water transport											
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
		713	Air transport											
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
		719	Services allied to transport											
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL	NA	NA		NA			NA	NA	NA	NA	NA
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
		810	Financial institutions											
			SUB-TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		8101	Monetary institutions											
		8102	Other financial institutions											
		8103	Financial service activities											
82	Insurance													
			SUB-TOTAL											
83	Real estate and business services													
		831	Real estate											
		832	Business services except machinery and equipment rental and leasing											
			SUB-TOTAL											
		8321	Legal activities											
		8322	Accounting, bookkeeping and auditing activities; tax consultancy											
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities											
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
		833	Machinery and equipment rental and leasing											
			TOTAL	NA	NA	NA	NA			NA	NA	NA	NA	NA

MOROCCO Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities													
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
	(92) Sanitary and similar services plus (93) Social and community activities													
	SUB-TOTAL													
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
96	Extraterritorial organizations and bodies													
	TOTAL			NA										
00	ACTIVITIES NOT ADEQUATELY DEFINED													
	TOTAL			NA										
Total Employment				NA										

Source: Data are from the United Nations Industrial Statistics Yearbooks for 1988-90.

MOROCCO: Gross Domestic Product, 1980-1989

(million dirhams, current prices)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	12,711	11,422	16,256	16,130	17,547	21,497	29,526	23,992	30,940	31,230	NA
02 Mining	3,520	4,382	4,193	4,210	5,531	6,019	4,964	4,347	5,612	5,236	NA
03 Manufacturing	13,288	14,859	16,423	17,839	19,538	26,960	33,938	35,635	41,057	43,090	NA
Agroindustry											
31 Food, beverages, tobacco	3,188	3,561	3,867	4,234	4,607	6,378	7,056	7,587	8,485	9,178	NA
32 Textiles	1,988	2,220	2,411	2,640	2,873	3,977	4,400	4,731	5,291	5,723	NA
33 Wood products	407	455	494	541	589	815	901	969	1,084	1,172	NA
34 Paper products	604	675	733	802	873	1,209	1,337	1,438	1,608	1,739	NA
Chemicals and machinery											
35 Chemicals	3,515	3,942	4,567	4,857	5,412	7,404	12,304	12,373	15,043	14,951	NA
38 Machinery/equipment	1,944	2,172	2,359	2,583	2,811	3,891	4,304	4,628	5,176	5,599	NA
Other manufacturing											
36, 37, 39 Other	1,642	1,834	1,992	2,181	2,373	3,285	3,634	3,908	4,370	4,727	NA
04 Energy	997	1,157	1,244	1,349	1,486	2,873	3,372	4,135	4,780	5,325	NA
05 Construction	4,841	5,364	6,597	6,695	6,903	7,387	7,668	7,394	9,139	10,357	NA
Services	30,562	34,176	38,995	42,034	47,514	64,770	75,258	82,854	88,953	94,772	NA
Total GDP	65,919	71,360	83,708	88,257	98,519	129,506	154,726	158,356	180,481	190,011	NA

MOROCCO: Shares of Agribusiness (Including Wearing Apparel and Printing), 1980-1989

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%
03 Manufacturing	53%	52%	52%	52%	52%	52%	46%	46%	45%	47%	NA
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	NA
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	11%	11%	11%	11%	11%	11%	7%	8%	7%	8%	NA
38 Machinery/equipment	29%	26%	29%	28%	27%	26%	28%	25%	26%	26%	NA
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	34%	32%	34%	33%	33%	31%	32%	28%	30%	29%	NA
05 Construction	34%	32%	34%	33%	33%	31%	32%	28%	30%	29%	NA
Services	38%	35%	37%	36%	36%	34%	34%	30%	32%	32%	NA
Total GDP	55%	52%	54%	53%	53%	51%	51%	46%	48%	48%	NA

Notes The shares of agribusiness in manufacturing are derived on the basis of secondary data (Statistical Year Books 1985, 1990).

We assume that the share of AgBus in Energy and Construction is proportional to the contribution to GDP of AgBus activities outside Energy, Construction, and Services.

We assume that the share of AgBus in Services is proportional to the contribution to GDP of AgBus activities outside Services.

MOROCCO Gross Domestic Product, 1980-1989

(million dirhams, current prices)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	12,711	11,422	16,256	16,130	17,547	21,497	29,526	23,992	30,940	31,230	NA
02 Mining	3,520	4,382	4,193	4,210	5,531	6,019	4,964	4,347	5,612	5,236	NA
03 Manufacturing	13,288	14,859	16,423	17,839	19,538	26,960	33,938	35,635	41,057	43,090	NA
Agroindustry											
31 Food, beverages, tobacco	3,188	3,561	3,867	4,234	4,607	6,378	7,056	7,587	8,485	9,178	NA
32 Textiles	1,988	2,220	2,411	2,640	2,873	3,977	4,400	4,731	5,291	5,723	NA
33 Wood products	407	455	494	541	589	815	901	969	1,084	1,172	NA
34 Paper products	604	675	733	802	873	1,209	1,337	1,438	1,608	1,739	NA
Chemicals and machinery											
35 Chemicals	3,515	3,942	4,567	4,857	5,412	7,404	12,304	12,373	15,043	14,951	NA
38 Machinery/equipment	1,944	2,172	2,359	2,583	2,811	3,891	4,304	4,628	5,176	5,599	NA
Other manufacturing											
36, 37, 39 Other	1,642	1,834	1,992	2,181	2,373	3,285	3,634	3,908	4,370	4,727	NA
04 Energy	997	1,157	1,244	1,349	1,486	2,873	3,372	4,135	4,780	5,325	NA
05 Construction	4,841	5,364	6,597	6,695	6,903	7,387	7,668	7,394	9,139	10,357	NA
Services	30,562	34,176	38,995	42,034	47,514	64,770	75,258	82,854	88,953	94,772	NA
Total GDP	65,919	71,350	83,708	88,257	98,519	129,506	154,726	158,356	180,481	190,011	NA

MOROCCO Shares of Agribusiness (Excluding Wearing Apparel and Printing), 1980-1989

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%
03 Manufacturing	49%	49%	48%	48%	48%	48%	43%	43%	42%	43%	NA
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	NA
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Chemicals and machinery											
35 Chemicals	11%	11%	11%	11%	11%	11%	7%	8%	7%	8%	NA
38 Machinery/equipment	28%	25%	28%	27%	26%	26%	27%	24%	26%	25%	NA
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	34%	31%	33%	32%	32%	31%	31%	27%	29%	29%	NA
05 Construction	34%	31%	33%	32%	32%	31%	31%	27%	29%	29%	NA
Services	37%	34%	36%	35%	35%	33%	33%	29%	32%	31%	NA
Total GDP	54%	51%	53%	52%	52%	49%	50%	44%	47%	46%	NA

MOROCCO Employees by economic activity
Perform analysis only for manufacturing sector

EMPLOYEES
(000 persons)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02 Mining	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
03 Manufacturing	0.00	NA	NA	206.40	255.55	271.25	296.95	321.67	355.10	NA	NA
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	44.32	68.47	75.90	82.49	85.90	96.02	NA	NA
32 Textiles	NA	NA	NA	69.29	81.19	85.50	97.35	112.95	130.95	NA	NA
33 Wood products	NA	NA	NA	9.36	10.86	10.40	11.26	10.18	11.11	NA	NA
34 Paper products	NA	NA	NA	9.55	10.16	11.31	11.48	11.96	12.09	NA	NA
Chemicals and machinery											
35 Chemicals	NA	NA	NA	20.98	24.73	25.23	28.95	30.42	33.82	NA	NA
38 Machinery/equipment	NA	NA	NA	33.59	36.42	39.20	41.35	41.49	44.09	NA	NA
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	19.31	23.73	23.72	24.09	28.79	27.03	NA	NA
04 Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05 Construction	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Services (All other sectors)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total employment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: Excludes agriculture

Share of Agribusiness With Manufacture of Apparel and Printing

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%
03 Manufacturing	53%	52%	52%	52%	52%	52%	46%	46%	45%	47%	NA
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	NA
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	11%	11%	11%	11%	11%	11%	7%	8%	7%	8%	NA
38 Machinery/equipment	29%	26%	29%	28%	27%	26%	28%	25%	26%	26%	NA
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	34%	32%	34%	33%	33%	31%	32%	28%	30%	29%	NA
05 Construction	34%	32%	34%	33%	33%	31%	32%	28%	30%	29%	NA
Services	38%	35%	37%	36%	36%	34%	34%	30%	32%	32%	NA
Total Economy	55%	52%	54%	53%	53%	51%	51%	46%	48%	48%	NA

Note: Alpha AgBus is based on Value Added Generated by Economic Activities

MGROCCO Employees by economic activity (manufacturing sector)
Perform analysis only for the manufacturing sector

EMPLOYEES
(000 persons)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02 Mining	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
03 Manufacturing	NA	NA	NA	206.40	255.55	271.25	296.95	321.67	355.10	NA	NA
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	44.32	68.47	75.90	82.49	85.90	96.02	NA	NA
32 Textiles	NA	NA	NA	69.29	81.19	85.50	97.35	112.95	130.95	NA	NA
33 Wood products	NA	NA	NA	9.36	10.86	10.40	11.26	10.18	11.11	NA	NA
34 Paper products	NA	NA	NA	9.55	10.16	11.31	11.43	11.96	12.09	NA	NA
Chemicals and machinery											
35 Chemicals	NA	NA	NA	20.98	24.73	25.23	28.95	30.42	33.82	NA	NA
38 Machinery/equipment	NA	NA	NA	33.59	36.42	39.20	41.35	41.49	44.09	NA	NA
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	19.31	23.73	23.72	24.09	28.79	27.03	NA	NA
04 Energy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05 Construction	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Services (All other sectors)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total employment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: Excludes agriculture

Share of Agribusiness Without Manufacture of Apparel and Printing

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%
03 Manufacturing	48%	47%	47%	47%	47%	47%	41%	42%	41%	42%	NA
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	NA
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	NA
Chemicals and machinery											
35 Chemicals	11%	11%	11%	11%	11%	11%	7%	8%	7%	8%	NA
38 Machinery/equipment	28%	25%	28%	27%	26%	25%	27%	24%	25%	25%	NA
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	33%	31%	33%	32%	32%	30%	31%	27%	29%	28%	NA
05 Construction	33%	31%	33%	32%	32%	30%	31%	27%	29%	28%	NA
Services	36%	34%	36%	35%	35%	33%	33%	29%	31%	31%	NA
Total Economy	53%	50%	53%	51%	51%	49%	49%	44%	47%	46%	NA

Note: Alpha AgBus is based on Value Added Generated by Economic Activities

JORDAN: Traditional Sectors of GDP 1986-1990
(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agriculture	Industry	Services	Total GDP
1986	100,100	437,800	1,206,300	1,744,200
1987	125,000	453,306	1,011,700	1,590,000
1988	114,500	448,400	1,388,000	1,950,900
1989	131,700	568,700	1,423,000	2,123,400
1990	179,600	668,900	1,465,600	2,314,100

JORDAN: Contribution of Agribusiness to GDP, excluding wearing apparel and printing 1986-1990
(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1986	333,621	340,679	1,069,900	1,744,200
1987	343,135	368,597	878,268	1,590,000
1988	337,853	365,494	1,247,553	1,950,900
1989	445,569	433,616	1,244,215	2,123,400
1990	586,853	489,203	1,238,044	2,314,100

JORDAN: Contribution of Agribusiness to GDP, including wearing apparel and printing 1986-1990
(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1986	350,895	330,467	1,062,838	1,744,200
1987	359,549	358,565	871,885	1,590,000
1988	351,174	357,711	1,242,015	1,950,900
1989	463,177	423,074	1,237,149	2,123,400
1990	610,532	474,705	1,228,863	2,314,100

JORDAN: Traditional Sectors of GDP 1986-1990
(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agriculture	Industry	Services	Total GDP
1986	100,100	437,800	1,206,300	1,744,200
1987	125,000	453,300	1,011,700	1,590,000
1988	114,500	448,400	1,388,000	1,950,900
1989	131,700	568,700	1,423,000	2,123,400
1990	179,600	668,900	1,465,600	2,314,100

JORDAN: Contribution of Agribusiness to GDP, excluding wearing apparel and printing 1986-1990

(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1986	333,621	340,679	1,069,900	1,744,200
1987	343,135	368,597	878,268	1,590,000
1988	337,853	365,494	1,247,553	1,950,900
1989	445,569	433,616	1,244,215	2,123,400
1990	586,853	489,203	1,238,044	2,314,100

JORDAN: Contribution of Agribusiness to GDP, including wearing apparel and printing 1986-1990

(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total GDP
1986	350,895	330,467	1,062,838	1,744,200
1987	359,549	358,565	871,885	1,590,000
1988	351,174	357,711	1,242,015	1,950,900
1989	463,177	423,074	1,237,149	2,123,400
1990	610,532	474,705	1,228,863	2,314,100

**JORDAN: Components of Agribusiness, excluding wearing apparel
and printing 1986-1990**

(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1986	100,100	70,244	26,877	136,400	333,621
1987	125,000	56,706	27,998	133,432	343,135
1988	114,500	56,714	26,192	140,447	337,853
1989	131,700	87,843	47,240	178,786	445,569
1990	179,600	133,023	46,675	227,556	586,853

**JORDAN: Components of Agribusiness, including wearing apparel
and printing 1986-1990**

(Value Added at Factor Cost in Current Prices, 1,000 Jordanian Dinars)

Year	Agriculture	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1986	100,100	79,451	27,882	143,462	350,895
1987	125,000	65,691	29,044	139,815	359,549
1988	114,500	63,840	26,849	145,985	351,174
1989	131,700	97,559	48,067	185,851	463,177
1990	179,600	146,395	47,800	236,737	610,532

**JORDAN: Employment Generated by Traditional,
Non-Agricultural Sectors of Economy 1986-1989**
(1,000 persons)

Year	Industry	Services	Total EMP
1986	52	136	189
1987	57	159	216
1988	56	166	222
1989	69	174	243

**JORDAN: Contribution of Agribusiness to Non-Agricultural Employment,
excluding wearing apparel and printing 1986-1989**
(1,000 persons)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total EMP'
1986	32	36	121	189
1987	36	41	138	216
1988	34	39	149	222
1989	48	42	152	243

**JORDAN: Contribution of Agribusiness to Non-Agricultural Employment,
including wearing apparel and printing 1986-1989**
(1,000 persons)

Year	Agribusiness	Non-AgBus Industry	Non-AgBus Services	Total EMP
1986	36	33	120	189
1987	42	37	137	216
1988	38	36	149	222
1989	55	19	151	225

**JORDAN: Employment Generated within Agribusiness, excluding
wearing apparel and printing 1986-1989**
(1,000 persons)

Year	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1986	13	3	15	32
1987	13	3	21	36
1988	15	2	17	34
1989	21	5	22	48

**JORDAN: Employment Generated within Agribusiness, including
wearing apparel and printing 1986-1989**
(1,000 persons)

Year	Agroindustry	Inputs/Energy/ Equipment	Agribusiness Services	Total Agribusiness
1986	16	3	16	36
1987	17	3	22	42
1988	18	2	17	38
1989	26	6	23	55

JORDAN: Contribution of Manufacturing to Employment 1986-1990
(1,000 persons)

Manufacturing	1986	1987	1988	1989	1990
Agroindustry	17	17	18	25	28
Inputs	8	9	9	9	12
Equipment	5	6	5	8	8
Others	7	7	7	10	9
Total Manufacturing	37	39	39	52	57

**JORDAN: Contribution of Agribusiness to Employment in Manufacturing,
with Agribusiness excluding wearing apparel and printing 1986-1990**
(1,000 persons)

Agribusiness	1986	1987	1988	1989	1990
Agroindustry	13	13	15	21	24
Inputs	1	1	1	3	2
Equipment	1	1	1	1	1
Total Agribusiness	15	15	17	25	27

**JORDAN: Contribution of Agribusiness to Employment in Manufacturing,
with Agribusiness including wearing apparel and printing 1986-1990**
(1,000 persons)

Agribusiness	1986	1987	1988	1989	1990
Agroindustry	16	17	18	25	27
Inputs	1	1	1	3	2
Equipment	1	1	1	1	1
Total Agribusiness	18	19	20	29	30

JORDAN

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand dinars)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING														
	11	Agriculture, hunting, forestry and fishing		Sub-total											
		111	Agricultural and livestock production												
		112	Agricultural service activities												
		113	Hunting, trapping and game propagation												
	12	Forestry and logging		Sub-total											
		121	Forestry												
		122	Logging												
	13	Fishing		Sub-total											
		1301	Ocean and coastal fishing												
		1302	Fishing n.e.c.												
			TOTAL	69400.0	75100.0	81800.0	40600.0	60800.0	87400.0	100100.0	125000.0	114500.0	131700.0	179600.0	
02	MINING AND QUARRYING														
	210	Coal Mining		Sub-total											
		2101	Mining and agglomeration of hard coal												
		2102	Mining and agglomeration of lignite												
	220	Crude petroleum and natural gas production		Sub-total											
		2201	On-site gasification of coal												
		2202	Extraction of crude petroleum and natural gas												
	230	Metal ore mining		Sub-total											
		2301	Mining of iron ores												
		2302	Non-ferrous ore mining												
	290	Other mining			NA	NA	NA	NA	NA	65600.0	68300.0	66900.0	82400.0	154500.0	
		2901	Stone quarrying, clay and sand pits												
		2902	Mining of chemical and fertilizer materials		NA	NA	NA	NA	NA	NA	23.7	29.3	67.2	54.6	
		2903	Extraction of salt												
		2909	Mining and quarrying n.e.c.		NA	NA	NA	NA	NA	NA	66876.3	82370.7	154432.8	158745.4	
			TOTAL	40000.0	43300.0	45500.0	37415.0	40000.0	65600.0	68300.0	66900.0	82400.0	154500.0	158800.0	
03	MANUFACTURING														
	31	Manufacture of food, beverages and tobacco		Sub-total	NA	NA	NA	54516.5	58709.6	58946.3	54759.0	46248.9	42833.2	64139.6	96356.4
		311-2	Food manufacturing		NA	NA	NA	12010.5	17049.6	17092.3	17372.0	11865.1	12530.2	25690.5	34593.5
			3111 Slaughtering, preparing and preserving meat												
			3112 Manufacture of dairy products												
			3113 Canning and preserving of fruits and vegetables												
			3114 Canning, preserving and processing of fish, crustacea and similar foods												
			3115 Manufacture of vegetable and animal oils and fats												
			3116 Grain mill products												
			3117 Manufacture of bakery products												
			3118 Sugar factories and refineries												
			3119 Manufacture of cocoa, chocolate and sugar												
			3121 Manufacture of food products n.e.c.												
			3122 Manufacture of prepared animal feeds												
		313	Beverage industries		NA	NA	NA	9106.7	8817.4	9419.4	7973.7	9057.3	7199.3	9810.4	16892.7
			3131 Distilling, rectifying & blending of spirits; ethyl alcohol production from fermentable materials												
			3132 Manufacture of wines												
			3133 Manufacture of malt liquors and malt												
			3134 Manufacture of soft drinks; production of mineral waters												
	314	Manufacture of tobacco products			NA	NA	NA	33499.2	32902.6	32434.6	29413.3	25326.5	23103.8	28632.7	44870.3

JORDAN

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand dinars)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		Sub-total	NA	NA	NA	11425.0	12186.6	11677.6	10004.6	7404.4	8223.6	13758.4	21929.8
		321	Manufacture of textiles	NA	NA	NA	3147.6	4985.5	5123.4	3582.2	2711.2	3263.5	6639.4	11610.9
			3211 Spinning, weaving and finishing textiles									2610.6	5599.7	9328.9
			3212 Manufacture of made-up textile goods except wearing apparel											
			3213 Manufacture of knitted and crocheted fabrics and articles											
			3214 Manufacture of carpets and rugs											
			3215 Manufacture of cordage, rope, twine and netting											
			3219 Manufacture of textiles n.e.c.											
		322	Man. of wearing apparel, except footwear	NA	NA	NA	4176.3	4300.9	3376.9	4360.8	2846.5	2865.2	4327.9	7679.4
		323	Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel	NA	NA	NA	628.8	579.0	387.6	693.3	529.8	786.3	746.0	668.4
			3231 Tanning and dressing of leather											
			3232 Fur dressing and dyeing industries											
			3233 Manufacture of luggage, handbags and the like, saddlery and harness											
		324	Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear	NA	NA	NA	3472.3	2321.2	2789.7	1368.3	1316.9	1308.5	2045.1	1971.1
33	Manufacture of wood and wood products, including furniture		Sub-total	NA	NA	NA	3345.8	5904.9	6395.0	6807.5	5266.2	5055.4	8891.4	10527.7
			3311 Sawmills, planing and other wood mills	NA	NA	NA	NA	NA	NA	NA	NA	NA	1949.4	2697.2
			3312 Manufacture of wooden and cane containers and small cane ware											
			3319 Manufacture of wood and cork products n.e.c.											
			3320 Manufacture of furniture and fixtures, except primarily of metal	NA	NA	NA	NA	NA	NA	NA	NA	3106.0	5194.2	0.0
34	Manufacture of paper and paper products, printing and publishing		Sub-total	NA	NA	NA	8472.2	8928.6	6757.7	8538.6	7232.2	8258.5	11667.8	19149.6
			3411 Manufacture of pulp, paper and paperboard	NA	NA	NA	4695.8	3609.4	3153.9	3478.7	4040.1	4534.7	7305.7	12009.6
			3412 Manufacture of containers and boxes of paper and paperboard	NA	NA	NA	NA	NA	NA	770.6	515.2	182.4	3228.8	2519.5
			3419 Manufacture of pulp, paper, and paperboard articles n.e.c.											
		342	Printing, publishing and allied industries	NA	NA	NA	3776.4	5319.2	3841.9	5059.9	3192.1	3703.8	4362.2	7140.0
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		Sub-total	NA	NA	NA	NA	NA	NA	41586.3	85855.7	75321.6	83254.0	94499.9
			351 Manufacture of industrial chemicals	NA	NA	NA	20351.7	22103.1	14683.1	8047.06	8720.21	11451.9	30636.5	26269.0
			3511 Manufacture of basic industrial chemicals except fertilizers	NA	NA	NA	NA	NA	NA	426.9	2690.2	1961.5	3913.3	5162.6
			3512 Manufacture of fertilizers and pesticides	NA	NA	NA	NA	NA	NA	7249.0	5736.2	9127.2	25421.3	17735.8
			3513 Manufacture of synthetic resins, plastics materials and man-made fibres except glass	NA	NA	NA	NA	NA	NA	371.2	293.8	363.1	1301.9	3370.6
			352 Man. of other chemical products	NA	NA	NA	NA	NA	NA	5925.8	6421.5	10281.6	22560.3	25062.1
			3521 Man. of paints, varnishes and lacquers											
			3522 Man. of drugs and medicines	NA	NA	NA	NA	NA	NA	4137.3	5997.5	6147.5	12948.7	15735.1
			3523 Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
			3529 Man. of chemical products n.e.c.											
		353	Petroleum refineries	NA	NA	NA	29591.6	22547.3	30707.0	22696.9	66422.3	49170.8	23825.8	32445.8
		354	Man. of miscellaneous products of petroleum and coal											
		355	Man. of rubber products	NA	NA	NA	59.2	18.3	12.6	49.7	203.9	174.7	516.0	646.7
			3551 Tyre and tube industries											
			3559 Manufacture of rubber products n.e.c.											
		356	Man. of plastics products n.e.c.	NA	NA	NA	6059.4	5984.4	4522.6	4866.9	4087.8	4242.7	5665.4	10074.3
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		Sub-total	NA	NA	NA	45401.5	46814.8	45325.3	41849.7	34326.0	31604.0	38737.8	54309.3
			361 Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)	NA	NA	NA	NA	NA	NA	NA	NA	NA	55.2	1957.7
			362 Manufacture of glass and glass products	NA	NA	NA	NA	NA	NA	NA	NA	NA	2645.7	1927.2
			369 Man. of other non-metallic mineral products	NA	NA	NA	NA	NA	NA	NA	NA	NA	36036.9	50424.4
			3691 Manufacture of structural clay products											
			3692 Manufacture of cement, lime and plaster											
			3699 Manufacture of non-metallic mineral products											

JORDAN

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand dinars)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37			Basic metal industries											
			Sub-total	NA	NA	NA	6795.3	5685.7	4303.2	8553.7	9341.3	8010.4	14089.1	19710.5
		371	Iron and steel basic industries	NA	11590.2	14448.4								
		372	Non-ferrous metal basic industries	NA										
38			Man. of fabricated metal products, machinery and equipment											
			Sub-total	NA	10057.9	19800.7								
		381	Man. of fabricated metal products, except machinery and equipment	NA	5683.5	10203.1								
			3811 Manufacture of cutlery, hand tools and general hardware											
			3812 Manufacture of furniture and fixtures primarily of metal											
			3813 Manufacture of structural metal products											
			3819 Manufacture of fabricated metal products except machinery and equipment n.e.c.											
		382	Man. of machinery except electrical	NA	NA	NA	11447.8	11209.4	12326.7	12327.9	9937.1	2182.5	2751.3	5607.9
			3821 Manufacture of engines and turbines											
			3822 Manufacture of agricultural and forestry machinery											
			3823 Manufacture of metal and woodworking machinery											
			3824 Man. of special industrial machinery & equipment except metal and woodworking machinery											
			3825 Manufacture of office, computing and accounting machinery											
			3829 Machinery and equipment except electrical n.e.c.											
		383	Man. of electrical machinery apparatus, appliances and supplies	NA	NA	NA	640.2	839.6	881.3	853.9	919.2	1373.6	5095.6	1330.9
			3831 Manufacture of electrical industrial machinery and apparatus											
			3832 Manufacture of radio, television and communications equipment and apparatus											
			3833 Manufacture of electrical appliances and housewares											
			3839 Manufacture of electrical apparatus and supplies											
		384	Man. of transport equipment	NA	NA	NA	407.8	203.9	313.0	222.0	256.6	513.5	461.5	414.8
			3841 Ship building and repairing											
			3842 Manufacture of locomotives and rolling stock											
			3843 Manufacture of motor vehicles											
			3844 Manufacture of motorcycles and bicycles											
			3845 Manufacture of aircraft											
			3849 Manufacture of transport equipment											
		385	Man. of prof. & scientific and measuring & controlling equip. n.e.c., and of photographic & optical goods	NA	304.7	1289.3	1147.7							
			3851 Manufacture of professional and scientific, and measuring and controlling equipment											
			3852 Manufacture of photographic and optical goods											
			3853 Manufacture of watches and clocks											
39			Other manufacturing industries											
			Sub-total	NA	NA	NA	1185.9	10004.2	8308.7	8296.7	6812.4	7655.5	411.1	903.1
		390	Other manufacturing industries											
			3901 Manufacture of jewellery and related articles											
			3902 Manufacture of musical instruments											
			3903 Manufacture of sporting and athletic goods											
			3909 Manufacturing industries n.e.c.											
			TOTAL	108300.0	165300.0	182800.0	NA	NA	NA	NA	NA	197000.0	254700.0	345200.0
04			ELECTRICITY, GAS AND WATER SUPPLY											
41			Electricity, gas, steam											
			Sub-total											
		410	Electricity, gas and steam											
			4101 Production, collection and distribution of electricity	NA	NA	NA	16177.0	20365.9	28500.0	35674.0	39743.0	42099.0	NA	43563.0
			4102 Manufacture of gas; distribution of gaseous fuels through mains											
			4103 Steam and hot water supply	NA	NA	NA	NA	11634.1	11600.0	9126.0	8757.0	6401.0	NA	NA
42			Water works and supply	NA	2100.0	NA	9737.0							
			420 Collection, purification and distribution of water											
			TOTAL	18200.0	17600.0	21300.0	22100.0	32000.0	40100.0	44200.0	48500.0	50600.0	52800.0	53300.0
05			CONSTRUCTION											
50			Construction	97500.0	110600.0	121900.0	188000.0	177600.0	144400.0	131400.0	124300.0	NA	NA	111600.0
			TOTAL	97500.0	110600.0	121900.0	188000.0	177600.0	144400.0	131400.0	124300.0	118400.0	106700.0	111600.0

JORDAN

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand dinars)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade			NA	15741.3	15684.9								
62	Retail trade			NA	139322.9	161890.2								
			Sub-total											
63	Restaurants and hotels			NA	25535.8	NA								
	631	Restaurants, cafes and other eating and drinking places		NA	17401.3									
	632	Hotels, rooming houses, camps and other lodging places		NA	12923.6									
			TOTAL	164900.0	194100.0	217400.0	241300.0	252300.0	290400.0	275700.0	271800.0	257200.0	180600.0	207900.0
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
	711	Land transport												
		7111	Railway transport											
		7112	Urban, suburban and inter-urban highway passenger transport											
		7113	Other passenger land transport											
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport											
	712	Water transport												
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport												
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL	93800.0	121000.0	142100.0	190500.0	191100.0	220600.0	225800.0	230700.0	294500.0	359100.0	362000.0
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
	810	Financial institutions		NA	83438.0	107125.8								
		8101	Monetary institutions	NA	83438.0	107125.8								
		8102	Other financial institutions											
		8103	Financial service activities											
82	Insurance			NA	15193.3	15416.9								
83	Real estate and business services													
	831	Real estate		NA	4893.8									
	832	Business services except machinery and equipment rental and leasing												
		8321	Legal activities	NA	48980.4									
		8322	Accounting, bookkeeping and auditing activities; tax consultancy	NA	43146.2									
		8323	Data processing and tabulating service activities	NA	1840.4									
		8324	Engineering, architectural and technical service activities	NA	120781.4									
		8325	Advertising service activities	NA	52373.6									
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.	NA	249368.7	256157.3								
	833	Machinery and equipment rental and leasing												5346.4
			TOTAL	105900.0	111200.0	129200.0	245300.0	268400.0	273000.0	285700.0	291400.0	348000.0	378700.0	374500.0

JORDAN

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand dinars)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense			170200.0	191200.0	218500.0	266700.0	289500.0	316900.0	356700.0	372600.0	415000.0	427800.0	444260.4
92	Sanitary and similar service activities			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3166.9
93	Social and related community services			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	931	Education service activities		NA	NA	NA	NA	NA	NA	NA	NA	46100.0	45600.0	NA
	932	Research and scientific institutes		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23791.1
	933	Medical, dental, other health and veterinary services		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		9331	Medical, dental and other health service activities											14953.0
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2194.7
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	668.0
	953	Private households with employed persons		NA	NA	NA	NA	NA	NA	NA	NA	27200.0	31200.0	26200.0
	959	Miscellaneous personal services		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1
		9591	Barber and beauty shops	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4959.9
		9599	Personal service activities n.e.c.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1005.8
96	Extraterritorial organizations and bodies													
	b)													
00	ACTIVITIES NOT ADEQUATELY DEFINED													
	TOTAL			185100.0	210300.0	243200.0	297000.0	325300.0	352100.0	396400.0	412100.0	488300.0	504600.0	521200.1
GDP at Factor Cost				15400.0	18200.0	20700.0	17800.0	18900.0	19000.0	18700.0	19300.0	NA	NA	NA
Imputed Bank Service Charges				898500.0	1066700.0	1205900.0	NA	NA	NA	NA	1590000.0	1950900.0	2123400.0	2314100.1
Import duties and taxes				-10500.0	-13000.0	-17200.0	-31900.0	-34900.0	-36300.0	-38800.0	-39300.0	-39500.0	-55300.0	-39900.0
GDP at Market Cost				96300.0	110500.0	132500.0	132300.0	2485.8	1760.2	3377.2	70300.0	317000.0	267800.0	337200.0
				984300.0	1164200.0	1321200.0	NA	NA	NA	NA	1881000.0	2218400.0	2329900.0	2611400.1

Source: Data for the Manufacturing and Electricity sectors from 1955-88 is from the United Nations' Industrial Statistics Yearbook 1989. Data for 1980-84 is from the United Nations National Accounts Statistics: Main Aggregates and Detailed Tables 1989, except for 1983 and 1984 data for Mining, Manufacturing, and Electricity, Gas and Water, which are from the 1984 and 1987 Statistical Yearbook. 1983 data for the Mining and Quarrying, Manufacturing, and Electricity, Gas and Water sectors are from the 1984 Statistical Yearbook, Department of Statistics, Hashemite Kingdom of Jordan. 1984 data for the Mining and Quarrying, Manufacturing, and Electricity, Gas and Water sectors are from the 1987 Statistical Yearbook, Department of Statistics, Hashemite Kingdom of Jordan. Data for 1988-90 is from the 1991 Statistical Yearbook, Department of Statistics, Hashemite Kingdom of Jordan, with the exception of manufacturing disaggregations. Data for manufacturing disaggregations 1988-1990 are from the UN Industrial Statistics Yearbook 1990. Data for Mining sector from 1985-90 is from the 1991 Statistical Yearbook, Department of Statistics, Hashemite Kingdom of Jordan.

a/ Includes Category 352 as well for 1983-1985

b/ Includes activities not adequately defined for 1988-1990

JORDAN

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
	111	Agricultural and livestock production												
	112	Agricultural service activities												
	113	Hunting, trapping and game propagation												
12	Forestry and logging													
	121	Forestry												
	122	Logging												
13	Fishing													
	1301	Ocean and coastal fishing												
	1302	Fishing n.e.c.												
	TOTAL			NA	NA									
02	MINING AND QUARRYING													
210	Coal Mining		Sub-total											
	2101	Mining and agglomeration of hard coal												
	2102	Mining and agglomeration of lignite												
220	Crude petroleum and natural gas production		Sub-total											
	2201	On-site gasification of coal												
	2202	Extraction of crude petroleum and natural gas												
230	Metal ore mining		Sub-total											
	2301	Mining of iron ores												
	2302	Non-ferrous ore mining												
290	Other mining													
	2901	Stone quarrying, clay and sand pits												
	2902	Mining of chemical and fertilizer materials												
	2903	Extraction of salt												
	2909	Mining and quarrying n.e.c.												
	TOTAL			5.92	6.05	6.42	6.69	6.70	6.18	6.58	7.25	8.05	6.77	6.44
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco		Sub-total	5.37	5.28	4.71	5.20	6.27	7.36	7.62	7.81	8.06	10.72	11.58
	311-2	Food manufacturing		3.64	3.64	3.35	3.63	4.69	5.64	6.00	6.17	6.42	9.24	9.91
	3111	Slaughtering, preparing and preserving meat												
	3112	Manufacture of dairy products												
	3113	Canning and preserving of fruits and vegetables												
	3114	Canning, preserving and processing of fish, crustacea and similar foods												
	3115	Manufacture of vegetable and animal oils and fats												
	3116	Grain mill products												
	3117	Manufacture of bakery products												
	3118	Sugar factories and refineries												
	3119	Manufacture of cocoa, chocolate and sugar												
	3121	Manufacture of food products n.e.c.												
	3122	Manufacture of prepared animal feeds												
313	Beverage industries		0.97	0.95	0.76	0.93	0.83	0.97	0.84	0.76	0.67	0.72	0.85	
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials												
	3132	Manufacture of wines												
	3133	Manufacture of malt liquors and malt												
	3134	Manufacture of soft drinks; production of mineral waters												
314	Manufacture of tobacco products		0.76	0.69	0.60	0.64	0.73	0.75	0.78	0.88	0.97	0.75	0.82	

JORDAN

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	1990*
37	Basic metal industries		Sub-total	0.60	0.65	0.69	0.85	1.00	0.88	1.11	1.13	1.00	1.23	1.03
	371	Iron and steel basic industries											0.93	
	372	Non-ferrous metal basic industries											0.29	
38	Man. of fabricated metal products, machinery and equipment		Sub-total	4.07	4.28	3.69	4.04	4.44	5.41	5.14	5.61	5.30	8.10	7.68
	381	Man. of fabricated metal products, except machinery and equipment		3.72	3.75	3.26	0.87	4.09	4.93	4.69	5.00	4.33	5.82	5.75
		3811	Manufacture of cutlery, hand tools and general hardware											
		3812	Manufacture of furniture and fixtures primarily of metal											
		3813	Manufacture of structural metal products											
		3819	Manufacture of fabricated metal products except machinery and equipment n.e.c.											
	382	Man. of machinery except electrical					2.75						1.20	0.89
		3821	Manufacture of engines and turbines											
		3822	Manufacture of agricultural and forestry machinery											
		3823	Manufacture of metal and woodworking machinery											
		3824	Manufacture of special industrial machinery and equipment except metal and wood working machinery											
		3825	Manufacture of office, computing and accounting machinery											
		3829	Machinery and equipment except electrical n.e.c.											
	383	Man. of electrical machinery apparatus, appliances and supplies		0.31	0.25	0.27	0.26	0.28	0.40	0.36	0.48	0.53	0.62	0.68
		3831	Manufacture of electrical industrial machinery and apparatus											
		3832	Manufacture of radio, television and communications equipment and apparatus											
		3833	Manufacture of electrical appliances and housewares											
		3839	Manufacture of electrical apparatus and supplies											
	384	Man. of transport equipment		0.04	0.28	0.16	0.16	0.07	0.08	0.09	0.13	0.28	0.27	0.12
		3841	Ship building and repairing											
		3842	Manufacture of locomotive and rolling stock											
		3843	Manufacture of motor vehicles										0.27	0.12
		3844	Manufacture of motorcycles and bicycles											
		3845	Manufacture of aircraft											
		3849	Manufacture of transport equipment											
	385	Man. of prof. & scientific and measuring & controlling equip. not elsewhere classified, and of photographic & optical goods										0.16	0.18	0.25
		3851	Manufacture of professional and scientific, and measuring and controlling equipment											
		3852	Manufacture of photographic and optical goods											
		3853	Manufacture of watches and clocks											
39	Other manufacturing industries			7.32	4.61	4.60	4.14	4.21				0.09	0.29	0.22
	390	Other manufacturing industries												
		3901	Manufacture of jewellery and related articles											
		3902	Manufacture of musical instruments											
		3903	Manufacture of sporting and athletic goods											
		3909	Manufacturing industries n.e.c.											
			TOTAL	33.94	31.96	33.46	34.94	38.30	36.08	37.27	39.27	39.44	52.48	56.56
04	ELECTRICITY, GAS AND WATER SUPPLY													
41	Electricity, gas, steam		Sub-total											
	410	Electricity, gas and steam												
		4101	Production, collection and distribution of electricity											
		4102	Manufacture of gas; distribution of gaseous fuels through mains											
		4103	Steam and hot water supply											
42	Water works and supply													
	420	Collection, purification and distribution of water												
			TOTAL	3.07	3.01	4.66	3.69	4.09	4.43	4.54	4.55	4.54	4.64	4.97
05	CONSTRUCTION													
50	Construction			3.43	3.20	2.83	3.08	5.58	5.72	3.92	5.70	3.94	4.87	NA
			TOTAL	3.43	3.20	2.83	3.08	5.58	5.72	3.92	5.70	3.94	4.87	NA

JORDAN Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989*	1990*
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			Sub-total											
63	Restaurants and hotels													
			Sub-total											
	631	Restaurants, cafes and other eating and drinking places												
	632	Hotels, rooming houses, camps and other lodging places												
			TOTAL	7.40	6.84	7.91	7.78	9.40	9.80	9.33	10.37	9.61	10.84	NA
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
			Sub-total											
	711	Land transport												
		7111	Railway transport											
		7112	Urban, suburban and inter-urban highway passenger transport											
		7113	Other passenger land transport											
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport											
	712	Water transport												
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport												
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL	6.68	6.95	7.68	7.98	8.35	10.42	9.63	11.26	12.34	11.86	NA
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
			Sub-total											
	810	Financial institutions												
		8101	Monetary institutions									9.76	10.38	
		8102	Other financial institutions											
		8103	Financial service activities											
82	Insurance													
			Sub-total											
83	Real estate and business services													
			Sub-total									0.93	0.75	
	831	Real estate												
	832	Business services except machinery and equipment rental and leasing												
		8321	Legal activities											
		8322	Accounting, bookkeeping and auditing activities; tax consultancy											
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities											
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
	833	Machinery and equipment rental and leasing												
			TOTAL	5.20	4.83	3.00	8.10	8.95	9.58	9.41	9.73	10.72	11.14	NA

JORDAN Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 ^{a)}	1990 ^{a)}
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91			Public administration and defense											
92			Sanitary and similar service activities											
93			Social and related community services											
	931		Education service activities											
	932		Research and scientific institutes											
	933		Medical, dental, other health and veterinary services											
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934		Welfare institutions											
	935		Business, professional and labour associations											
	939		Other social and related community services											
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94			Recreational and cultural services											
	941		Motion picture and other entertainment services											
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942		Libraries, museums, botanical and zoological gardens and other cultural service activities											
	949		Amusement and recreational service activities											
95			Personal and household services											
	951		Repair services not elsewhere classified											
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952		Laundries, laundry service activities, and cleaning and dyeing plants											
	953		Private households with employed persons											
	959		Miscellaneous personal services											
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
			Sub-total											
96			Extraterritorial organizations and bodies											
			TOTAL	72.90	78.42	88.31	87.74	90.37	91.62	107.88	127.65	133.47	140.31	NA
00	ACTIVITIES NOT ADEQUATELY DEFINED													
			TOTAL								0.00	0.00		
Total Employment			TOTAL	138.54	141.26	154.27	160.00	171.74	173.83	188.56	215.78	222.11	242.91	NA

Sources: *Denotes estimates prepared by the Department of Statistics, Hashemite Kingdom of Jordan for 1989 and 1990.

Data for 1980 are from the United Nations' Statistical Yearbook 1992.

Data for 1981 are from the International Labor Office's Yearbook of Labor Statistics 1989, with the exception of category (02), which comes from the 1983 United Nations Industrial Statistics Yearbook.

Data for 1982-89 are from the International Labor Office's Yearbook of Labor Statistics 1990, with the exception of category (03), which comes from the United Nations Industrial Statistics Yearbooks for 1988-90.

Disaggregated data for category (07) for 1988 and 1989 are from the Hashemite Kingdom of Jordan 1991 Statistical Yearbook

a) For 1980-88, data for category 351 includes 352.

JORDAN Estimation of share of agribusiness in Non-service Activities

GDP

(thousand dinars, current prices)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	69,400	75,100	81,800	40,600	60,800	87,400	100,100	125,000	114,500	131,700	179,600
02 Mining	40,000	43,300	45,500	37,415	40,000	65,600	68,300	66,900	82,400	154,500	158,800
03 Manufacturing	108,300	165,300	182,800	NA	NA	NA	193,900	213,600	197,000	254,700	345,200
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	54,616	58,770	58,946	54,759	46,249	42,833	64,140	96,356
32 Textiles	NA	NA	NA	11,425	12,187	11,678	10,005	7,404	8,224	13,758	21,930
33 Wood products	NA	NA	NA	3,346	5,905	6,395	6,808	5,266	5,055	8,891	10,528
34 Paper products	NA	NA	NA	8,472	8,929	6,996	8,539	7,232	8,238	11,668	19,150
Chemicals and machinery											
35 Chemicals	NA	NA	NA	NA	NA	NA	41,586	85,856	75,322	83,204	94,500
38 Machinery/equipment	NA	NA	NA	12,496	12,253	13,523	13,404	11,113	10,058	19,801	27,814
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	53,383	62,504	57,937	58,800	50,480	47,270	53,238	74,923
04 Energy	18,200	17,600	21,300	22,100	32,000	40,100	44,200	48,500	50,600	52,800	53,300
05 Construction	97,500	110,600	121,900	188,000	177,600	144,400	131,400	124,300	118,400	106,700	111,600
Services	565,100	654,800	752,600	NA	NA	NA	1,206,300	1,011,700	1,388,000	1,423,000	1,465,600
Total GDP	898,500	1,066,700	1,205,900	NA	NA	NA	1,744,200	1,590,000	1,950,900	2,123,400	2,314,100

Share of Agribusiness Including Wearing Apparel and Printing

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	0%	0%	0%	0%	0%	0%	0.0000%	0.0354%	0.0355%	0.0435%	0.0344%
03 Manufacturing	NA	NA	NA	NA	NA	NA	46%	34%	38%	50%	49%
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	95%	94%	94%	93%	94%	94%	93%	93%
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	NA	NA	NA	NA	NA	NA	18%	7%	13%	32%	20%
38 Machinery/equipment	NA	NA	NA	NA	NA	NA	11%	12%	10%	12%	15%
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	NA	NA	NA	NA	NA	NA	11%	12%	10%	12%	15%
05 Construction	NA	NA	NA	NA	NA	NA	11%	12%	10%	12%	15%
Services	NA	NA	NA	NA	NA	NA	12%	14%	11%	13%	16%
Total Agribusiness in GDP	NA	NA	NA	NA	NA	NA	20%	23%	18%	22%	26%

JORDAN Estimation of share of agribusiness in Non-service Activities

GDP
(thousand dinars, current prices)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	69,400	75,100	81,800	40,600	60,800	87,400	100,100	125,000	114,500	131,700	179,600
02 Mining	40,000	43,300	45,500	37,415	40,000	65,600	68,300	66,900	82,400	154,500	158,800
03 Manufacturing	108,300	165,300	182,800	NA	NA	NA	193,900	213,600	197,000	254,700	345,200
Agroindustry											
31 Food, beverages, tobacco	NA	NA	NA	54,616	58,770	58,946	54,759	46,249	42,833	64,140	96,356
32 Textiles	NA	NA	NA	11,425	12,187	11,678	10,005	7,404	8,224	13,758	21,930
33 Wood products	NA	NA	NA	3,346	5,905	6,395	6,808	5,266	5,055	8,891	10,528
34 Paper products	NA	NA	NA	8,472	8,929	6,996	8,539	7,232	8,238	11,668	19,150
Chemicals and machinery											
35 Chemicals	NA	NA	NA	NA	NA	NA	41,586	85,856	75,322	83,204	94,500
38 Machinery/equipment	NA	NA	NA	12,496	12,253	13,523	13,404	11,113	10,058	19,801	27,814
Other manufacturing											
36, 37, 39 Other	NA	NA	NA	53,383	62,504	57,937	58,800	50,480	47,270	53,238	74,923
04 Energy	18,200	17,600	21,300	22,100	32,000	40,100	44,200	48,500	50,600	52,800	53,300
05 Construction	97,500	110,600	121,900	188,000	177,600	144,400	131,400	124,300	118,400	106,700	111,600
Services	565,100	654,800	752,600	NA	NA	NA	1,206,300	1,011,700	1,388,000	1,423,000	1,465,600
Total GDP	898,500	1,066,700	1,205,900	NA	NA	NA	1,744,200	1,590,000	1,950,900	2,123,400	2,314,100

Share of Agribusiness Excluding Wearing Apparel and Printing

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0354%	0.0355%	0.0435%	0.0344%
03 Manufacturing	NA	NA	NA	NA	NA	NA	43%	32%	36%	47%	46%
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	31%	42%	44%	40%	41%	46%	50%	52%
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	NA	NA	NA	100%	100%	100%	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	NA	NA	NA	NA	NA	NA	18%	7%	13%	32%	20%
38 Machinery/equipment	NA	NA	NA	NA	NA	NA	10%	12%	9%	12%	14%
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	NA	NA	NA	NA	NA	NA	10%	12%	9%	12%	15%
05 Construction	NA	NA	NA	NA	NA	NA	10%	12%	9%	12%	15%
Services	NA	NA	NA	NA	NA	NA	12%	14%	10%	13%	16%
Total Agribusiness in GDP	NA	NA	NA	NA	NA	NA	20%	22%	18%	21%	26%

Note that Alpha in Machinery is also affected by downsizing Agroindustries

JORDAN Employment Generated by Economic Activities
(excluding agriculture)

LABOR

(excluding agriculture)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	NA									
02 Mining	5.92	6.05	6.42	6.69	6.70	6.18	6.58	7.25	8.05	6.77	6.84
03 Manufacturing	33.94	31.96	33.46	34.94	38.30	36.08	37.27	39.27	39.44	52.48	56.56
Agroindustry											
31 Food, beverages, tobacco	5.37	5.28	4.71	5.20	6.27	7.36	7.62	7.81	8.06	10.72	11.58
32 Textiles	2.84	3.06	3.88	4.19	3.72	3.95	3.52	4.11	4.16	5.96	6.82
33 Wood products	1.95	1.67	1.75	1.78	3.28	2.21	2.79	2.59	2.68	5.70	5.64
34 Paper products	1.76	1.98	2.08	2.40	2.45	2.44	2.66	2.77	3.04	3.09	3.88
Chemicals and machinery											
35 Chemicals	5.08	5.36	6.59	6.76	7.40	8.11	8.25	9.19	9.24	9.37	11.51
38 Machinery/equipment	4.07	4.28	3.69	4.04	4.44	5.41	5.14	5.61	5.30	8.10	7.68
Other manufacturing											
36, 37, 39 Other	12.87	10.33	10.76	10.57	10.74	6.60	7.29	7.19	6.96	9.55	9.43
04 Energy	3.07	3.01	4.66	3.69	4.09	4.43	4.54	4.55	4.54	4.64	4.97
05 Construction	3.43	3.20	2.83	3.08	5.58	5.72	3.92	5.70	3.94	4.87	NA
Services	92.18	97.04	106.90	111.60	117.07	121.42	136.25	159.01	166.14	174.15	NA
Total Non-Agricultural Employment	138.54	141.26	154.27	160.00	171.74	173.83	188.56	215.78	222.11	242.91	NA

Share of Agribusiness Without Manufacture of Apparel and Printing
(excluding agriculture)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	0%	0%	0%	0%	0%	0%	0.0000%	0.0354%	0.0355%	0.0435%	0.0344%
03 Manufacturing	NA	NA	NA	NA	NA	NA	41%	30%	34%	46%	45%
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	31%	42%	44%	40%	41%	46%	50%	52%
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	NA	NA	NA	NA	NA	NA	55%	30%	61%	68%	77%
Chemicals and machinery											
35 Chemicals	NA	NA	NA	NA	NA	NA	18%	7%	13%	32%	20%
38 Machinery/equipment	NA	NA	NA	NA	NA	NA	10%	12%	9%	12%	14%
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	NA	NA	NA	NA	NA	NA	10%	12%	9%	12%	14%
05 Construction	NA	NA	NA	NA	NA	NA	10%	12%	9%	12%	14%
Services	NA	NA	NA	NA	NA	NA	11%	13%	10%	13%	16%
Total Economy w/o agriculture	NA	NA	NA	NA	NA	NA	19%	22%	17%	21%	25%

Note: Alpha AgBus is based on Value Added Generated by Economic Activities

JORDAN Employment Generated by Economic Activities
(excluding agriculture)

LABOR
(excluding agriculture)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	NA	NA									
02 Mining	5.92	6.05	6.42	6.69	6.70	6.18	6.58	7.25	8.05	6.77	6.84
03 Manufacturing	33.94	31.96	33.46	34.94	38.30	36.08	37.27	39.27	39.44	52.48	56.56
Agroindustry	33.94	31.96	33.46	34.94	38.30	36.08	37.27	39.27	39.44	52.48	56.56
31 Food, beverages, tobacco	5.37	5.28	4.71	5.20	6.27	7.36	7.62	7.81	8.06	10.72	11.58
32 Textiles	2.84	3.06	3.88	4.19	3.72	3.95	3.52	4.11	4.16	5.96	6.82
33 Wood products	1.95	1.67	1.75	1.78	3.28	2.21	2.79	2.59	2.68	5.70	5.64
34 Paper products	1.76	1.98	2.08	2.40	2.45	2.44	2.66	2.77	3.04	3.09	3.88
Chemicals and machinery											
35 Chemicals	5.08	5.36	6.59	6.76	7.40	8.11	8.25	9.19	9.24	9.37	11.51
38 Machinery/equipment	4.07	4.28	3.69	4.04	4.44	5.41	5.14	5.61	5.30	8.10	7.68
Other manufacturing											
36, 37, 39 Other	12.87	10.33	10.76	10.57	10.74	6.60	7.29	7.19	6.96	9.55	9.43
04 Energy	3.07	3.01	4.66	3.69	4.09	4.13	4.54	4.55	4.54	4.64	4.97
05 Construction	3.43	3.20	2.83	3.08	5.58	5.72	3.92	5.70	3.94	4.87	NA
Services	92.18	97.04	106.90	111.60	117.07	121.42	136.25	159.01	166.14	174.15	NA
Total Non-Agricultural Employment	138.54	141.26	154.27	160.00	171.74	173.83	188.56	215.78	222.11	242.91	NA

Share of Agribusiness With Manufacture of Apparel and Printing
(excluding agriculture)

Non-Service Activities	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01 Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
02 Mining	0%	0%	0%	0%	0%	0.00%	0.00%	0.04%	0.04%	0.04%	0.03%
03 Manufacturing	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agroindustry											
31 Food, beverages, tobacco	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
32 Textiles	NA	NA	NA	95%	94%	94%	93%	94%	94%	93%	93%
33 Wood products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
34 Paper products	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Chemicals and machinery											
35 Chemicals	NA	NA	NA	NA	NA	NA	18%	7%	13%	32%	20%
38 Machinery/equipment	NA	NA	NA	NA	NA	NA	11%	12%	10%	12%	15%
Other manufacturing											
36, 37, 39 Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
04 Energy	NA	NA	NA	NA	NA	NA	11%	12%	10%	12%	15%
05 Construction	NA	NA	NA	NA	NA	NA	11%	12%	10%	12%	15%
Services	NA	NA	NA	NA	NA	NA	12%	14%	11%	13%	16%
Total Economy	NA	NA	NA	NA	NA	NA	20%	23%	18%	22%	26%

EGYPT Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of Egyptian Pounds)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING														
11	Agriculture, hunting, forestry and fishing			Sub-total											
	111	Agricultural and livestock production													
	112	Agricultural service activities													
	113	Hunting, trapping and game propagation													
12	Forestry and logging			Sub-total											
	121	Forestry													
	122	Logging													
13	Fishing			Sub-total											
	1301	Ocean and coastal fishing													
	1302	Fishing n.e.c.													
			TOTAL		3391.60	3931.80	4954.10	5584.60	6201.00	7416.30	8663.30	8903.00	9141.00	9440.00	9760.00
02	MINING AND QUARRYING														
210	Coal Mining			Sub-total											
	2101	Mining and agglomeration of hard coal													
	2102	Mining and agglomeration of lignite													
220	Crude petroleum and natural gas production			Sub-total	2768.10	2668.00	2771.70	3156.10	3533.90	1975.00	795.00	990.00	1275.00	1728.20	1775.20
	2201	On-site gasification of coal													
	2202	Extraction of crude petroleum and natural gas													
230	Metal ore mining			Sub-total						5.00	6.00	-1.00	6.00		
	2301	Mining of iron ores													
	2302	Non-ferrous ore mining													
290	Other mining									57.00	87.00	83.00	91.00		
	2901	Stone quarrying, clay and sand pits													
	2902	Mining of chemical and fertilizer materials													
	2903	Extraction of salt													
	2909	Mining and quarrying n.e.c.													
			TOTAL a)		2768.10	2668.00	2771.70	3156.10	3533.90	2037.00	848.00	1072.00	1372.00	1728.20	1775.20
03	MANUFACTURING														
31	Manufacture of food, beverages and tobacco			Sub-total	NA	NA	0	0	0	817	1088	749	2493	0	0
	311-2	Food manufacturing								552.00	715.00	426.00	2007.00		
	3111	Slaughtering, preparing and preserving meat													
	3112	Manufacture of dairy products													
	3113	Canning and preserving of fruits and vegetables													
	3114	Canning, preserving and processing of fish, crustacea and similar foods													
	3115	Manufacture of vegetable and animal oils and fats													
	3116	Grain mill products													
	3117	Manufacture of bakery products													
	3118	Sugar factories and refineries													
	3119	Manufacture of cocoa, chocolate and sugar													
	3121	Manufacture of food products n.e.c.													
	3122	Manufacture of prepared animal feeds													
	313	Beverage industries								93	158	146	165		
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials													
	3132	Manufacture of wines													
	3133	Manufacture of malt liquors and malt													
	3134	Manufacture of soft drinks; production of mineral waters													
	314	Manufacture of tobacco products								172.00	215.00	177.00	321.00		

EGYPT Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of Egyptian Pounds)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		Sub-total	NA	NA	0.00	0.00	0.00	709.00	833.00	994.00	1526.00	0.00	0.00
	321		Manufacture of textiles						106	64	186	292		
		3211	Spinning, weaving and finishing textiles						562.00	704.00	702.00	1113.00		
		3212	Manufacture of made-up textile goods except wearing apparel											
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs											
		3215	Manufacture of cordage, rope, twine and netting											
		3219	Manufacture of textiles n.e.c.											
	322		Man. of wearing apparel, except footwear						20.00	26.00	28.00	55.00		
	323		Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel						9	20	34	21		
		3231	Tanning and dressing of leather											
		3232	Fur dressing and dyeing industries											
		3233	Manufacture of luggage, handbags and the like, saddlery and harness											
	324		Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear						12.00	19.00	44.00	45.00		
33	Manufacture of wood and wood products, including furniture		Sub-total	NA	NA	0.00	0.00	0.00	56.00	35.00	100.00	177.00	0.00	0.00
		3311	Saw mills, planing and other wood mills						31.00	17.00	74.00	51.00		
		3312	Manufacture of wooden and cane containers and small cane ware											
		3319	Manufacture of wood and cork products n.e.c.											
		3320	Manufacture of furniture and fixtures, except primarily of metal						25.00	18.00	26.00	126.00		
34	Manufacture of paper and paper products, printing and publishing		Sub-total	NA	NA	0	0	0	231	182	148	240	0	0
	341		Manufacture of paper and paper products						28	42	53	55		
		3411	Manufacture of pulp, paper and paperboard						71.00	35.00	58.00	53.00		
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.											
	342		Printing, publishing and allied industries						132.00	105.00	37.00	132.00		
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		Sub-total	NA	NA	0.00	0.00	0.00	647.00	830.00	972.00	1342.00	0.00	0.00
	351		Manufacture of industrial chemicals						95	82	55	115		
		3511	Manufacture of basic industrial chemicals except fertilizers						56.00	74.00	69.00	95.00		
		3512	Manufacture of fertilizers and pesticides											
		3513	Manufacture of synthetic resins, plastics materials and man-made fibres except glass						39.00	49.00	73.00	75.00		
	352		Man. of other chemical products						91	108	186	363		
		3521	Man. of paints, varnishes and lacquers											
		3522	Man. of drugs and medicines						178.00	160.00	154.00	197.00		
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
		3529	Man. of chemical products n.e.c.											
	353		Petroleum refineries						77.00	96.00	103.00	182.00		
	354		Man. of miscellaneous products of petroleum and coal						102.00	101.00	104.00	102.00		
	355		Man. of rubber products						36	29	34	38		
		3551	Tyre and tube industries											
		3559	Manufacture of rubber products n.e.c.											
	356		Man. of plastics products n.e.c.						-27.00	131.00	194.00	168.00		
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		Sub-total	NA	NA	0.00	0.00	0.00	262.00	364.00	517.00	805.00	0.00	0.00
	361		Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)						15.00	52.00	26.00	69.00		
	362		Manufacture of glass and glass products						29.00	45.00	78.00	66.00		
	369		Man. of other non-metallic mineral products						218	267	413	670		
		3691	Manufacture of structural clay products											
		3692	Manufacture of cement, lime and plaster											
		3699	Manufacture of non-metallic mineral products											

EGYPT

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of Egyptian Pounds)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37	Basic metal industries		Sub-total	NA	NA	0.00	0.00	0.00	495.00	277.03	561.00	1210.00	0.00	0.00
	371	Iron and steel basic industries							129.00	71.00	70.00	483.00		
	372	Non-ferrous metal basic industries							366.00	206.00	491.00	727.00		
38	Man. of fabricated metal products, machinery and equipment		Sub-total	NA	NA	0.00	0.00	0.00	626.00	581.00	1501.00	1284.00	0.00	0.00
	381	Man. of fabricated metal products, except machinery and equipment							124	151	305	360		
		3811	Manufacture of cutlery, hand tools and general hardware											
		3812	Manufacture of furniture and fixtures primarily of metal											
		3813	Manufacture of structural metal products											
		3819	Manufacture of fabricated metal products except machinery and equipment n.e.c.											
	382	Man. of machinery except electrical							106	67	261	331		
		3821	Manufacture of engines and turbines											
		3822	Manufacture of agricultural and forestry machinery											
		3823	Manufacture of metal and woodworking machinery											
		3824	Manufacture of special industrial machinery and equipment except metal and woodworking machinery											
		3825	Manufacture of office, computing and accounting machinery											
		3829	Machinery and equipment except electrical n.e.c.						3.00	-2.00	0.00	3.00		
	385	Man. of electrical machinery apparatus, appliances and supplies							190	156	167	126		
		3831	Manufacture of electrical industrial machinery and apparatus											
		3832	Manufacture of radio, television and communications equipment and apparatus											
		3833	Manufacture of electrical appliances and housewares						47.00	27.00	190.00	75.00		
		3839	Manufacture of electrical apparatus and supplies											
	384	Man. of transport equipment							49	37	41	72		
		3841	Ship building and repairing											
		3843	Manufacture of motor vehicles						37.00	49.00	43.00	45.00		
		3844	Manufacture of motorcycles and bicycles						53.00	83.00	439.00	197.00		
		3845	Manufacture of aircraft											
		3849	Manufacture of transport equipment											
	385	Man. of prof. & scientific and measuring & controlling equip. not elsewhere classified, and of photographic & optical goods							17	13	55	68		
		3851	Manufacture of professional and scientific, and measuring and controlling equipment											
		3852	Manufacture of photographic and optical goods											
		3853	Manufacture of watches and clocks											
39	Other manufacturing industries		Sub-total						8	9	5	9		
	390	Other manufacturing industries												
		3901	Manufacture of jewelry and related articles											
		3902	Manufacture of musical instruments											
		3903	Manufacture of sporting and athletic goods											
		3909	Manufacturing industries n.e.c.											
			TOTAL	2253.80	2670.20	3181.10	3895.90	5128.90	3851.00	4199.00	5547.00	9086.00	8564.00	9155.00
04	ELECTRICITY, GAS AND WATER SUPPLY													
41	Electricity, gas, steam		Sub-total											
	b)	410	Electricity, gas and steam											
		4101	Production, collection and distribution of electricity	107.80	127.70	161.00	228.80	315.50	465.10	527.50	557.3	600	648	684.4
		4102	Manufacture of gas; distribution of gaseous fuels through mains											
		4103	Steam and hot water supply											
42	Water works and supply													
		420	Collection, purification and distribution of water											
			TOTAL b)	107.80	127.70	161.00	228.80	315.50	465.10	527.50	557.30	600.00	648.00	684.40
05	CONSTRUCTION													
50	Construction													
			TOTAL	740.00	1055.00	1169.00	1334.50	1597.60	1971.00	2204.80	2117.40	2256.00	2381.00	2510.00

EGYPT

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of Egyptian Pounds)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
63	Restaurants and hotels													
			Sub-total		3072.00	3891.00	4744.00	5638.00	6669.00	8343.00				
			Sub-total		228.00	263.00	283.00	304.00	302.00	470.00	451.30	571.40	694.40	751.30
	631	Restaurants, cafes and other eating and drinking places												
	632	Hotels, rooming houses, camps and other lodging places												
			TOTAL	2255.20	3300.00	4154.00	5027.00	5942.00	6971.00	8813.00	451.30	571.40	694.40	751.30
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
	711	Land transport												
		7111	Railway transport											
		7112	Urban, suburban and inter-urban highway passenger transport											
		7113	Other passenger land transport											
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport											
	712	Water transport												
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport												
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL	1458.30	1999.30	2363.00	2780.90	3044.20	3441.90	3846.10	3977.10	4279.00	4678.00	5013.00
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
	810	Financial institutions												
		8101	Monetary institutions											
		8102	Other financial institutions		1335	1675	1982	2417	2879	3398	10046.30	10630.00	11110.00	11610.00
		8103	Financial service activities											
82	Insurance													
83	Real estate and business services													
	831	Real estate												
	832	Business services except machinery and equipment rental and leasing			373	452	528	617	714	798	898.00	983.00	1104.00	1210.00
		8321	Legal activities											
		8322	Accounting, bookkeeping and auditing activities; tax consultancy											
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities											
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
	833	Machinery and equipment rental and leasing												
			TOTAL	1284.40	1708.00	2127.00	2710.00	3034.00	3593.00	4196.00	10944.30	11613.00	12214.00	12820.00

EGYPT

Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of Egyptian Pounds)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense			1815	2389.5	2694.8	3220.3	3522	4111.1	4548.9	4893.7	5170	5450.5	5749
92	Sanitary and similar service activities													
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
96	Extraterritorial organizations and bodies													
TOTAL				2458.70	5638.50	6190.80	7424.30	8911.00	9902.10	11003.90	6815.30	7188.00	7562.50	7961.00
00	ACTIVITIES NOT ADEQUATELY DEFINED													
GDP at Factor Cost				16717.90	23096.50	27071.70	31942.10	37708.10	39648.40	44341.60	40384.70	46106.40	47910.10	50469.90
Imputed bank service charges														
Import duties and taxes				431.10	124.50	1404.70	2290.50	2485.80	1760.20	3377.20				
GDP at Market Cost				17149.00	23223.00	28476.40	34232.60	40193.90	41508.60	47718.80	40384.70	46106.40	47910.10	50469.90

Source: Data for the Mining and Manufacturing sectors for the period 1985-89 are from the United Nations Industrial Statistics Yearbook 1985

Data for 1980-84 are from the United Nations National Accounts Statistics: Main Aggregates and Detailed Tables 1989

Data for Divisions 06, 38 and 09 residual are from the Arab Republic of Egypt Country Economic Memorandum "Economic Readjustment with Growth," Vol. 3, Annexes, World Bank Country Operations Division (EMNA), February 1990.

All data for 1989 and 90, and in 1987 and 1988 for Divisions 01, 04, 05-09 are from the National Bank of Egypt Economic Bulletin, Vol. 43, No. 1-4, Cairo, 1990. These data are all in constant 1986/7 prices.

Data for 1987-90 for Transport, Storage, and Communication include Suez Canal income; Trade and insurance are included with the financial institutions data.

Years are based on Egypt's fiscal cycle, which begins July 1.

- a) For 1980-84 and 1989-90 category (02), Mining and Quarrying refers to oil and its products only; other extraction activities are included in the manufacturing aggregate (UN National Accounts Statistics 1989)
- b) The supply of gas and water is included in "09 Community, Social and Personal Services"

EGYPT

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
	SUB-TOTAL													
	111	Agricultural and livestock production												
	112	Agricultural service activities												
	113	Hunting, trapping and game propagation												
12	Forestry and logging													
	SUB-TOTAL													
	121	Forestry												
	122	Logging												
13	Fishing													
	SUB-TOTAL													
	1301	Ocean and coastal fishing												
	1302	Fishing n.e.c.												
	TOTAL			4206.2	4247.5	4296.4	4384.9	4345.0	4480.0	4542.6	4451.0	4568.0	4664.0	4716.0
02	MINING AND QUARRYING													
210	Coal Mining													
	SUB-TOTAL													
	2101	Mining and agglomeration of hard coal												
	2102	Mining and agglomeration of lignite												
220	Crude petroleum and natural gas production													
	SUB-TOTAL			21.2	24.5	25.2	26.5	28.2	32.7	33.5	31.5	34.4	35.8	36.0
	2201	On-site gassification of coal												
	2202	Extraction of crude petroleum and natural gas												
230	Metal ore mining													
	SUB-TOTAL													
	2301	Mining of iron ores												
	2302	Non-ferrous ore mining												
290	Other mining													
	2901	Stone quarrying, clay and sand pits												
	2902	Mining of chemical and fertilizer materials												
	2903	Extraction of salt												
	2909	Mining and quarrying n.e.c.												
	TOTAL a/			21.2	24.5	25.2	26.5	28.2	32.7	33.5	31.5	34.4	35.8	36.0
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco													
	SUB-TOTAL													
	311-2	Food manufacturing												
	3111	Slaughtering, preparing and preserving meat												
	3112	Manufacture of dairy products												
	3113	Canning and preserving of fruits and vegetables												
	3114	Canning, preserving and processing of fish, crustacea and similar foods												
	3115	Manufacture of vegetable and animal oils and fats												
	3116	Grain mill products												
	3117	Manufacture of bakery products												
	3118	Sugar factories and refineries												
	3119	Manufacture of cocoa, chocolate and sugar												
	3121	Manufacture of food products n.e.c.												
	3122	Manufacture of prepared animal feeds												
313	Beverage industries													
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials												
	3132	Manufacture of wines												
	3133	Manufacture of malt liquors and malt												
	3134	Manufacture of soft drinks; production of mineral waters												
314	Manufacture of tobacco products													

EGYPT

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		SUB-TOTAL											
	321		Manufacture of textiles											
		3211	Spinning, weaving and finishing textiles											
		3212	Manufacture of made-up textile goods except wearing apparel											
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs											
		3215	Manufacture of cordage, rope, twine and netting											
		3219	Manufacture of textiles n.e.c.											
	322		Man. of wearing apparel, except footwear											
	323		Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel											
		3231	Tanning and dressing of leather											
		3232	Fur dressing and dyeing industries											
		3233	Manufacture of luggage, handbags and the like, saddlery and harness											
	324		Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear											
33	Manufacture of wood and wood products, including furniture		SUB-TOTAL											
		3311	Sawmills, planing and other wood mills											
		3312	Manufacture of wooden and cane containers and small cane ware											
		3319	Manufacture of wood and cork products n.e.c.											
		3320	Manufacture of furniture and fixtures, except primarily of metal											
34	Manufacture of paper and paper products, printing and publishing		SUB-TOTAL											
	341		Manufacture of paper and paper products											
		3411	Manufacture of pulp, paper and paperboard											
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.											
	342		Printing, publishing and allied industries											
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		SUB-TOTAL											
	351		Manufacture of industrial chemicals											
		3511	Manufacture of basic industrial chemicals except fertilizers											
		3512	Manufacture of fertilizers and pesticides											
		3513	Manufacture of synthetic resins, plastics materials and man-made fibres except glass											
	352		Man. of other chemical products											
		3521	Man. of paints, varnishes and lacquers											
		3522	Man. of drugs and medicines											
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
		3529	Man. of chemical products n.e.c.											
	353		Petroleum refineries											
	354		Man. of miscellaneous products of petroleum and coal											
	355		Man. of rubber products											
		3551	Tyre and tube industries											
		3559	Manufacture of rubber products n.e.c.											
	356		Man. of plastics products n.e.c.											
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		SUB-TOTAL											
		361	Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)											
		362	Manufacture of glass and glass products											
		369	Man. of other non-metallic mineral products											
		3691	Manufacture of structural clay products											
		3692	Manufacture of cement, lime and plaster											
		3699	Manufacture of non-metallic mineral products											

EGYPT

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			SUB-TOTAL											
63	Restaurants and hotels													
			SUB-TOTAL	134.4	140.5	144.2	149.7	130.3	139.2	144.8	140.2	149.1	153.7	160.0
		631	Restaurants, cafes and other eating and drinking places											
		632	Hotels, rooming houses, camps and other lodging places											
			TOTAL	134.4	140.5	144.2	149.7	130.3	139.2	144.8	140.2	149.1	153.7	160.0
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
			SUB-TOTAL											
	711	Land transport												
		7111	Railway transport											
		7112	Urban, suburban and inter-urban highway passenger transport											
		7113	Other passenger land transport											
		7114	Freight transport by road											
		7115	Transport via pipelines											
		7116	Supporting service activities to land transport											
	712	Water transport												
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport												
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL	467.4	452.1	465.2	483.0	552.0	574.1	601.7	569.0	584.1	601.4	615.0
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
			SUB-TOTAL											
	810	Financial institutions												
		8101	Monetary institutions											
		8102	Other financial institutions											
		8103	Financial service activities											
82	Insurance													
			SUB-TOTAL											
83	Real estate and business services													
			SUB-TOTAL											
	831	Real estate		230.2	237.5	249.5	266.7	269.5	280.3	299.3	298.2	316.6	326.7	336.4
		832	Business services except machinery and equipment rental and leasing											
		8321	Legal activities											
		8322	Accounting, bookkeeping and auditing activities; tax consultancy											
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities											
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
	833	Machinery and equipment rental and leasing (includes trade)												
			TOTAL	1418.6	1426.8	1499.1	1547.0	1456.1	1496.2	1590.2	1560.8	1603.4	1651.5	1686.4

EGYPT

Labor, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(thousand persons)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities			2113.2	2346.9	2468.1	2544.7	2068.7	2126.8	2197.8	2253.2	2309.7	2370.5	2470.6
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not else where classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
Social and private services (93 + 94 + 95)														
96	Extraterritorial organizations and bodies													
SUB-TOTAL				852.6	895.6	942.2	939.9	956.9	979.2	1050.2	1012.9	1029.9	1056.7	1100.0
TOTAL				2965.8	3242.5	3410.3	3484.6	3025.6	3106.0	3248.0	3266.1	3339.6	3427.2	3570.6
00	ACTIVITIES NOT ADEQUATELY DEFINED													
Total Employment														
TOTAL				11338.6	11685.4	12109.7	12469.0	11594.2	12006.0	12418.0	12515.3	12880.1	13253.7	13646.0

Source: *Economic Bulletin, National Bank of Egypt*, 43:1-4, Cairo: 1990.

Years are based on Egypt fiscal cycle which begins July 1.

a/ Mining and Quarrying refers to oil and its products only; other extraction activities are included in the manufacturing aggregates (UN Accounts Statistics 1989)

b/ The supply of gas and water is included in "09 Community, Social and Personal Services."

ALGERIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(Million DA)

Draft - prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
	111	Agricultural and livestock production												
	112	Agricultural service activities												
	113	Hunting, trapping and game propagation												
12	Forestry and logging													
	121	Forestry												
	122	Logging												
13	Fishing													
	1301	Ocean and coastal fishing												
	1302	Fishing n.e.c.												
	TOTAL			12923.30	16253.20	16107.10	16607.60	18287.50	27070.00	33270.00	38180.00			
02	MINING AND QUARRYING													
210	Coal Mining													
	2101	Mining and agglomeration of hard coal												
	2102	Mining and agglomeration of lignite												
220	Crude petroleum and natural gas production													
	2201	On-site gasification of coal		3670.70	2715.50	3227.90	3630.00	4874.00						
	2202	Extraction of crude petroleum and natural gas												
230	Metal ore mining													
	2301	Mining of iron ores												
	2302	Non-ferrous ore mining												
290	Other mining													
	2901	Stone quarrying, clay and sand pits												
	2902	Mining of chemical and fertilizer materials												
	2903	Extraction of salt												
	2909	Mining and quarrying n.e.c.												
	TOTAL			3670.70	2715.50	3227.90	3630.00	4874.00	895	1020	1100			
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco													
311-2	Food manufacturing			NA	NA	NA	NA	NA	6470	6920	7500			
	3111	Slaughtering, preparing and preserving meat												
	3112	Manufacture of dairy products												
	3113	Canning and preserving of fruits and vegetables												
	3114	Canning, preserving and processing of fish, crustacea and similar foods												
	3115	Manufacture of vegetable and animal oils and fats												
	3116	Grain mill products												
	3117	Manufacture of bakery products												
	3118	Sugar factories and refineries												
	3119	Manufacture of cocoa, chocolate and sugar												
	3121	Manufacture of food products n.e.c.												
	3122	Manufacture of prepared animal feeds												
313	Beverage industries													
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials												
	3132	Manufacture of wines												
	3133	Manufacture of malt liquors and malt												
	3134	Manufacture of soft drinks; production of mineral waters												
314	Manufacture of tobacco products													

ALGERIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(Million DA)

Draft-prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		Sub-total	NA	NA	NA	NA	NA	5225.00	5620.00	5500.00			
	321		Manufacture of textiles	a)	NA	NA	NA	NA	4200.00	4440.00	4350.00			
		3211	Spinning, weaving and finishing textiles											
		3212	Manufacture of made-up textile goods except wearing apparel											
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs											
		3215	Manufacture of cordage, rope, twine and netting											
		3219	Manufacture of textiles n.e.c.											
	322		Man. of wearing apparel, except footwear											
	323		Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel	b)	NA	NA	NA	NA	1025	1180	1150			
		3231	Tanning and dressing of leather											
		3232	Fur dressing and dyeing industries											
		3233	Manufacture of luggage, handbags and the like, saddlery and harness											
	324		Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear											
33			Manufacture of wood and wood products, including furniture	c)	NA	NA	NA	NA	2480.00	2600.00	2560.00			
		3311	Sawmills, planing and other wood mills											
		3312	Manufacture of wooden and cane containers and small cane ware											
		3319	Manufacture of wood and cork products n.e.c.											
		3320	Manufacture of furniture and fixtures, except primarily of metal											
34			Manufacture of paper and paper products, printing and publishing											
	341		Manufacture of paper and paper products											
		3411	Manufacture of pulp, paper and paperboard											
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.											
	342		Printing, publishing and allied industries											
35			Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		51191.30	59162.80	58714.70	62138.70	63376.70	71085.00	43320.00	47860.00		
	351		Manufacture of industrial chemicals											
		3511	Manufacture of basic industrial chemicals except fertilizers											
		3512	Manufacture of fertilizers and pesticides											
		3513	Manufacture of synthetic resins, plastic materials and man-made fibres except glass											
	352		Man. of other chemical products											
		3521	Man. of paints, varnishes and lacquers											
		3522	Man. of drugs and medicines											
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
		3529	Man. of chemical products n.e.c.											
	353		Petroleum refineries		51191.30	59162.80	58714.70	62138.70	63376.70	68925.00	40900.00	45310.00		
	354		Man. of miscellaneous products of petroleum and coal											
	355		Man. of rubber products											
		3551	Tyre and tube industries											
		3559	Manufacture of rubber products n.e.c.											
	356		Man. of plastics products n.e.c.											
36			Manufacture of non-metallic mineral products, except products of petroleum and coal		NA	NA	NA	NA	NA	2830.00	3210.00	3600.00		
	361		Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)											
	362		Manufacture of glass and glass products											
	369		Man. of other non-metallic mineral products											
		3691	Manufacture of structural clay products											
		3692	Manufacture of cement, lime and plaster											
		3699	Manufacture of non-metallic mineral products											

ALGERIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(Million DA)

Draft—prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37			Basic metal industries											
		371	Iron and steel basic industries											
		372	Non-ferrous metal basic industries											
38			Man. of fabricated metal products, machinery and equipment	NA	NA	NA	NA	NA	11180.00	13200.00	12380.00			
		381	Man. of fabricated metal products, except machinery and equipment											
		3811	Manufacture of cutlery, hand tools and general hardware											
		3812	Manufacture of furniture and fixtures primarily of metal											
		3813	Manufacture of structural metal products											
		3819	Manufacture of fabricated metal products except machinery and equipment n.e.c.											
		382	Man. of machinery except electrical											
		3821	Manufacture of engines and turbines											
		3822	Manufacture of agricultural and forestry machinery											
		3823	Manufacture of metal and woodworking machinery											
		3824	Man. of special industrial machinery and equipment except metal and woodworking machinery											
		3825	Manufacture of office, computing and accounting machinery											
		3829	Machinery and equipment except electrical n.e.c.											
		383	Man. of electrical machinery apparatus, appliances and supplies											
		3831	Manufacture of electrical industrial machinery and apparatus											
		3832	Manufacture of radio, television and communications equipment and apparatus											
		3833	Manufacture of electrical appliances and housewares											
		3839	Manufacture of electrical apparatus and supplies											
		384	Man. of transport equipment											
		3841	Ship building and repairing											
		3843	Manufacture of motor vehicles											
		3844	Manufacture of motorcycles and bicycles											
		3845	Manufacture of aircraft											
		3849	Manufacture of transport equipment											
		385	Man. of prof. & scientific and measuring & controlling equip. n.e.c., and of photographic & optical goods											
		3851	Manufacture of professional and scientific, and measuring and controlling equipment											
		3852	Manufacture of photographic and optical goods											
		3853	Manufacture of watches and clocks											
39			Other manufacturing industries	NA	NA	NA	NA	NA	715.00	800.00	860.00			
		390	Other manufacturing industries											
		3901	Manufacture of jewellery and related articles											
		3902	Manufacture of musical instruments											
		3903	Manufacture of sporting and athletic goods											
		3909	Manufacturing industries n.e.c.											
			TOTAL	15974.10	18738.10	21388.60	25335.90	33082.80	NA	NA	NA			
04			ELECTRICITY, GAS AND WATER SUPPLY	67165.40	77900.90	80103.30	87474.60	96459.50	99985.00	75670.00	80260.00			
41			Electricity, gas, steam											
		410	Electricity, gas and steam											
		4101	Production, collection and distribution of electricity											
		4102	Manufacture of gas; distribution of gaseous fuels through mains											
		4103	Steam and hot water supply											
42			Water works and supply											
		420	Collection, purification and distribution of water											
			TOTAL	NA	NA	NA	NA	NA	3050.00	3260.00	3525.00			
05			CONSTRUCTION											
50			Construction											
			TOTAL	16526.80	20089.50	24376.70	28526.10	33688.20	36000.00	41225.00	44290.00			

ALGERIA Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			Sub-total	18975.60	22674.90	25966.10	28870.80	32288.60	35625.00	37615.00	26515.00			
63	Restaurants and hotels													
			Sub-total											
631	Restaurants, cafes and other eating and drinking places													
632	Hotels, rooming houses, camps and other lodging places													
			TOTAL	18975.60	22674.90	25966.10	28870.80	32288.60	35625.00	37615.00	26515.00			
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
			Sub-total	NA	NA	NA	NA	NA	21955.00	24035.00	25780.00			
711	Land transport													
			7111	Railway transport										
			7112	Urban, suburban and inter-urban highway passenger transport										
			7113	Other passenger land transport										
			7114	Freight transport by road										
			7115	Transport via pipelines										
			7116	Supporting service activities to land transport										
712	Water transport													
			7121	Sea and coastal water transport										
			7122	Inland water transport										
			7123	Supporting service activities to water transport										
713	Air transport													
			7131	Air transport carriers										
			7132	Supporting service activities to air transport										
719	Services allied to transport													
			7191	Service activities incidental transport			NA	NA	NA	10200	11570	12890		
			7192	Storage and warehousing										
72	Communications													
			TOTAL	7689.70	8284.00	8881.20	11162.20	13389.90	32155.00	35605.00	38670.00			
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
			810	Financial institutions										
				8101 Monetary institutions										
				8102 Other financial institutions										
				8103 Financial service activities										
82	Insurance													
			Sub-total											
83	Real estate and business services													
			831	Real estate										
			832	Business services except machinery and equipment rental and leasing										
				8321 Legal activities										
				8322 Accounting, bookkeeping and auditing activities; tax consultancy										
				8323 Data processing and tabulating service activities										
				8324 Engineering, architectural and technical service activities										
				8325 Advertising service activities										
				8329 Business service activities, except machinery and equipment rental and leasing n.e.c.										
833	Machinery and equipment rental and leasing													
			TOTAL	5575.30	6164.60	6760.00	7965.40	8935.20	NA	NA	NA	NA	NA	NA

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities													
93	Social and related community services													
	931	Education service activities												
	932	Research and scientific institutes												
	933	Medical, dental, other health and veterinary services												
		9331	Medical, dental and other health service activities											
		9332	Veterinary activities											
	934	Welfare institutions												
	935	Business, professional and labour associations												
	939	Other social and related community services												
		9391	Activities of religious organizations											
		9399	Social and related community service activities											
94	Recreational and cultural services													
	941	Motion picture and other entertainment services												
		9411	Motion picture production											
		9412	Motion distribution and projection											
		9413	Radio and television broadcasting											
		9414	Theatrical producers and entertainment service activities											
		9415	Activities by authors, music composers, and other independent artists											
	942	Libraries, museums, botanical and zoological gardens and other cultural service activities												
	949	Amusement and recreational service activities												
95	Personal and household services													
	951	Repair services not elsewhere classified												
		9511	Repair of personal and household goods											
		9512	Electrical repair shops											
		9513	Repair of motor vehicles and motorcycles											
		9514	Watch, clock, and jewellery repair											
		9519	Other repair shops n.e.c.											
	952	Laundries, laundry service activities, and cleaning and dyeing plants												
	953	Private households with employed persons												
	959	Miscellaneous personal services												
		9591	Barber and beauty shops											
		9599	Personal service activities n.e.c.											
96	Extraterritorial organizations and bodies													
00	ACTIVITIES NOT ADEQUATELY DEFINED													
TOTAL														
GDP at Factor Cost														
Import duties and taxes				132526.80	154082.60	165422.30	184236.70	207922.90	234780.00	227665.00	232540.00			
GDP at Market Cost				2917.00	4263.30	3891.00	4361.70	4200.00	23000.00	23750.00	25515.00			
				135443.80	158345.90	169313.30	188598.40	212122.90	257780.00	251415.00	259055.00			

Data Source:

L'Algerie en quelques chiffres Algiers: Office Nationale des Statistiques, 1985, 1989
Data for 1980-84: 1985 edition, p. 285
Data for 1985-87: 1989 edition, p. 22

a) includes category 322 as well

b) includes category 324 as well

c) includes category 34—Paper and Paper Products

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(millions of rials Omani)

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
01	AGRICULTURE, HUNTING, FORESTRY AND FISHING													
11	Agriculture, hunting, forestry and fishing													
	111	Agricultural and livestock production		37.2	40.5	45.7	53.5	57.1	67.5	77.0	78.6	86.4	92.3	90.4
	112	Agricultural service activities		37.2	40.5	45.7	53.5	57.1	67.5	68.2	70.6	77.8	83.2	90.4
	113	Hunting, trapping and game propagation												
12	Forestry and logging													
	121	Forestry												
	122	Logging												
13	Fishing													
	1301	Ocean and coastal fishing		15.4	21.7	20.4	27.1	31.9	26.2	27.7	34.8	45.8	33.9	36.5
	1302	Fishing n.e.c.												
			SUB-TOTAL											
			TOTAL	52.6	62.2	66.1	80.6	89.0	93.7	104.7	113.4	132.2	126.2	126.9
02	MINING AND QUARRYING													
210	Coal Mining													
	2101	Mining and agglomeration of hard coal												
	2102	Mining and agglomeration of lignite												
220	Crude petroleum and natural gas production													
	2201	On-site gasification of coal		1279.5	1473.8	1429.9	1396.5	1461.4	1675.1	1063.1	1404.7	1188.1	1462.0	2054.2
	2202	Extraction of crude petroleum and natural gas												
230	Metal ore mining													
	2301	Mining of iron ores								4.1	4.9	10.7	10.5	
	2302	Non-ferrous ore mining												
290	Other mining													
	2901	Stone quarrying, clay and sand pits		1.0	2.6	3.8	5.5	7.2	8.8	4.1	4.9	10.7	10.5	
	2902	Mining of chemical and fertilizer materials								5.2	3.4	3.3	6.1	13.8
	2903	Extraction of salt												
	2909	Mining and quarrying n.e.c.												
			SUB-TOTAL											
			TOTAL	1280.5	1476.4	1424.7	1402.0	1468.6	1683.9	1072.4	1413.0	1202.1	1478.6	2068.0
03	MANUFACTURING													
31	Manufacture of food, beverages and tobacco													
	311-2	Food manufacturing								5.9	19.4	22.0	16.3	
	3111	Slaughtering, preparing and preserving meat												
	3112	Manufacture of dairy products												
	3113	Canning and preserving of fruits and vegetables												
	3114	Canning, preserving and processing of fish, crustacea and similar foods												
	3115	Manufacture of vegetable and animal oils and fats												
	3116	Grain mill products												
	3117	Manufacture of bakery products												
	3118	Sugar factories and refineries												
	3119	Manufacture of cocoa, chocolate and sugar												
	3121	Manufacture of food products n.e.c.												
	3122	Manufacture of prepared animal feeds												
313	Beverage industries													
	3131	Distilling, rectifying & blending of spirits; ethyl alcohol production from fermented materials												
	3132	Manufacture of wines												
	3133	Manufacture of malt liquors and malt												
	3134	Manufacture of soft drinks; production of mineral waters												
314	Manufacture of tobacco products													

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
32	Textiles		SUB-TOTAL							0.4	0.0	3.2	64.2	
	321	Manufacture of textiles												
		3211	Spinning, weaving and finishing textiles											
		3212	Manufacture of made-up textile goods except wearing apparel											
		3213	Manufacture of knitted and crocheted fabrics and articles											
		3214	Manufacture of carpets and rugs											
		3215	Manufacture of cordage, rope, twine and netting											
		3219	Manufacture of textiles n.e.c.											
	322	Man. of wearing apparel, except footwear												
	323	Man. of leather and products of leather, leather substitutes and fur, except footwear and wearing apparel												
		3231	Tanning and dressing of leather											
		3232	Fur dressing and dyeing industries											
		3233	Manufacture of luggage, handbags and the like, saddlery and harness											
	324	Manufacture of footwear, except vulcanized, moulded rubber or plastic footwear												
33	Manufacture of wood and wood products, including furniture		SUB-TOTAL							10.9	5.9	10.3	2.9	
		3311	Sawmills, planing and other wood mills											
		3312	Manufacture of wooden and cane containers and small cane ware											
		3319	Manufacture of wood and cork products n.e.c.											
		3320	Manufacture of furniture and fixtures, except primarily of metal											
34	Manufacture of paper and paper products, printing and publishing		SUB-TOTAL							0.3	0.5	15.7	10.4	
	341	Manufacture of paper and paper products												
		3411	Manufacture of pulp, paper and paperboard											
		3412	Manufacture of containers and boxes of paper and paperboard											
		3419	Manufacture of pulp, paper, and paperboard articles n.e.c.											
	342	Printing, publishing, and allied industries												
35	Manufacture of chemicals and chemical, petroleum, coal, rubber and plastic products		SUB-TOTAL							22.3	12.6	19.5	1.4	
	351	Manufacture of industrial chemicals												
		3511	Manufacture of basic industrial chemicals except fertilizers											
		3512	Manufacture of fertilizers and pesticides											
		3513	Manufacture of synthetic resins, plastics materials and man-made fibres except glass											
	352	Man. of other chemical products												
		3521	Man. of paints, varnishes and lacquers											
		3522	Man. of drugs and medicines											
		3523	Man. of soap and cleaning preparations, perfumes, cosmetics and other toilet preparations											
		3529	Man. of chemical products n.e.c.											
	353	Petroleum refineries												
	354	Man. of miscellaneous products of petroleum and coal		NA	NA	NA	21.5	32.1	NA	8.6	10.1	10.3	13.2	14.4
	355	Man. of rubber products												
		3551	Tyre and tube industries											
		3559	Manufacture of rubber products n.e.c.											
	356	Man. of plastics products n.e.c.												
36	Manufacture of non-metallic mineral products, except products of petroleum and coal		SUB-TOTAL							30.5	44.6	31.7	31.9	
	361	Manufacture of non-structural non-refractory ceramic ware (pottery, china and earthenware)												
	362	Manufacture of glass and glass products												
	369	Man. of other non-metallic mineral products												
		3691	Manufacture of structural clay products											
		3692	Manufacture of cement, lime and plaster											
		3699	Manufacture of non-metallic mineral products											

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
37	Basic metal industries													
	371	Iron and steel basic industries								22.8	7.6	0.0	0.0	
	372	Non-ferrous metal basic industries												
38	Man. of fabricated metal products, machinery and equipment													
	381	Man. of fabricated metal products, except machinery and equipment								9.7	20.2	20.3	6.6	
		3811	Manufacture of cutlery, hand tools and general hardware											
		3812	Manufacture of furniture and fixtures primarily of metal											
		3813	Manufacture of structural metal products											
		3819	Manufacture of fabricated metal products except machinery and equipment n.e.c.											
	382	Man. of machinery except electrical												
		3821	Manufacture of engines and turbines											
		3822	Manufacture of agricultural and forestry machinery											
		3823	Manufacture of metal and woodworking machinery											
		3824	Manufacture of special industrial machinery and equipment except metal and woodworking machinery											
		3825	Manufacture of office, computing and accounting machinery											
		3829	Machinery and equipment except electrical n.e.c.											
	383	Man. of electrical machinery apparatus, appliances and supplies												
		3831	Manufacture of electrical industrial machinery and apparatus											
		3832	Manufacture of radio, television and communications equipment and apparatus											
		3833	Manufacture of electrical appliances and housewares											
		3839	Manufacture of electrical apparatus and supplies											
	384	Man. of transport equipment												
		3841	Ship building and repairing											
		3843	Manufacture of motor vehicles											
		3844	Manufacture of motorcycles and bicycles											
		3845	Manufacture of aircraft											
		3849	Manufacture of transport equipment											
	385	Man. of prof. & scientific and measuring & controlling equip. not elsewhere classified, and of photographic & optical goods												
		3851	Manufacture of professional and scientific, and measuring and controlling equipment											
		3852	Manufacture of photographic and optical goods											
		3853	Manufacture of watches and clocks											
39	Other manufacturing industries													
	390	Other manufacturing industries								0.3	0.2	0.04	3.4	
		3901	Manufacture of jewellery and related articles											
		3902	Manufacture of musical instruments											
		3903	Manufacture of sporting and athletic goods											
		3909	Manufacturing industries n.e.c.											
			TOTAL b/	15.6	27.0	39.6	67.1	91.2	82.3	103.1	111.5	122.7	137.1	151.1
04	ELECTRICITY, GAS AND WATER SUPPLY													
41	Electricity, gas, steam													
	410	Electricity, gas and steam												
		4101	Production, collection and distribution of electricity	12.7	13.9	15.9	16.5	25.2	27.1	29.8	28.0	28.4	27.4	28.9
		4102	Manufacture of gas; distribution of gaseous fuels through mains											
		4103	Steam and hot water supply											
42	Water works and supply													
	420	Collection, purification and distribution of water		3.3	4.8	5.4	7.5	7.5	9.7	10.6	15.5	17.8	20.8	22.3
			TOTAL	16.0	18.7	21.3	24.0	32.7	36.8	40.4	43.5	46.2	48.2	51.2
05	CONSTRUCTION													
50	Construction													
			TOTAL	117.8	145.0	169.8	187.4	226.9	242.2	220.8	137.0	126.0	106.0	124.7

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
06	WHOLESALE AND RETAIL TRADE AND RESTAURANTS AND HOTELS													
61	Wholesale trade													
62	Retail trade													
			SUB-TOTAL	183.1	242.4	288.8	303	354.3	412.2	366.4	311.0	370.0	373.1	440.2
63	Restaurants and hotels													
			SUB-TOTAL	5.2	8.9	10.7	12.7	14.7	15.7	16.8	16.3	18.8	20.5	26.9
	631	Restaurants, cafés and other eating and drinking places								8.7	9.1	10.7	11.2	
	632	Hotels, rooming houses, camps and other lodging places								8.1	7.2	8.1	9.3	
			TOTAL	188.3	251.3	299.5	315.7	369.0	427.9	383.2	327.3	388.8	393.6	467.1
07	TRANSPORT, STORAGE AND COMMUNICATION													
71	Transport and storage													
			SUB-TOTAL	32.1	42.0	49.6	53.3	60.2	68.2	68.7	64.1	71.6	71.2	
	711	Land transport												
		7111	Railway transport							68.7	64.1	71.6	71.2	
		7112	Urban, suburban and inter-urban highway passenger transport											
		7113	Other passenger land transport							22.8	24.3	24.9	27.2	
		7114	Freight transport by road											
		7115	Transport via pipelines							45.9	39.8	46.7	44.0	
		7116	Supporting service activities to land transport											
	712	Water transport												
		7121	Sea and coastal water transport											
		7122	Inland water transport											
		7123	Supporting service activities to water transport											
	713	Air transport												
		7131	Air transport carriers											
		7132	Supporting service activities to air transport											
	719	Services allied to transport												
		7191	Service activities incidental transport											
		7192	Storage and warehousing											
72	Communications													
			TOTAL d/	6.2	11.8	15.3	19.6	24.3	31.4	34.7	33.5	36.7	41.1	
			TOTAL d/	38.3	53.8	64.9	72.9	84.5	99.6	115.1	108.1	119.7	123.4	132.2
08	FINANCING, INSURANCE, REAL ESTATE AND BUSINESS SERVICES													
81	Financial institutions													
			SUB-TOTAL	31.1	44.7	51.8	56.4	66.3	73.8	78.5	74.3	77.0	87.7	
	810	Financial institutions												
		8101	Monetary institutions											
		8102	Other financial institutions											
		8103	Financial service activities											
82	Insurance													
			SUB-TOTAL	3.3	4.4	10.0	7.2	12.2	17.0	15.0	10.2	11.5	12.9	NA
83	Real estate and business services													
			SUB-TOTAL	128.5	157.6	169.4	186.5	197.4	205.0	187.7	175.8	180.9	190.9	NA
	831	Real estate												
			SUB-TOTAL	106.9	130.8	137.3	152.4	154.1	NA	143.8	146.5	155.7	165.2	185.2
	832	Business services except machinery and equipment rental and leasing												
		8321	Legal activities											
			SUB-TOTAL	21.6	26.8	32.1	34.1	43.3	NA	43.9	29.3	25.2	25.7	NA
		8322	Accounting, bookkeeping and auditing activities; tax consultancy							3.6	3.9	3.8	4.1	
		8323	Data processing and tabulating service activities											
		8324	Engineering, architectural and technical service activities											
		8325	Advertising service activities							40.3	25.4	21.4	21.5	
		8329	Business service activities, except machinery and equipment rental and leasing n.e.c.											
	833	Machinery and equipment rental and leasing												
			TOTAL	162.9	206.7	231.2	250.1	275.9	295.8	281.2	260.3	269.4	291.5	320.4

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Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
09	COMMUNITY, SOCIAL AND PERSONAL SERVICES													
91	Public administration and defense													
92	Sanitary and similar service activities			f/	153.0	206.1	234.5	280.9	332.9	477.9	382.8	390.5	399.2	404.6
93	Social and related community services													
	SUB-TOTAL				1.6	2.2	2.8	3.5	4.3	6.4	99.6	108.3	124.0	133.4
931	Education service activities			g/	1.2	1.5	1.9	2.4	3.3	4.7	69.3	74.6	82.4	88.9
932	Research and scientific institutes													
933	Medical, dental, other health and veterinary services													
	9331 Medical, dental and other health service activities				0.4	0.7	0.9	1.1	1.5	1.7	30.3	33.7	41.6	44.5
	9332 Veterinary activities			h/							30.3	33.7	41.6	44.5
934	Welfare institutions													
935	Business, professional and labour associations													
939	Other social and related community services													
	9391 Activities of religious organizations													
	9399 Social and related community service activities													
94	Recreational and cultural services													
	SUB-TOTAL				5.2	6.5	7.9	9.3	10.6	12.1	13.0	13.5	13.7	14.6
941	Motion picture and other entertainment services													
	9411 Motion picture production										13.0	13.5	13.7	14.6
	9412 Motion distribution and projection													
	9413 Radio and television broadcasting										0.9	0.9	0.9	1.0
	9414 Theatrical producers and entertainment service activities										12.1	12.6	12.8	13.6
	9415 Activities by authors, music composers, and other independent artists													
942	Libraries, museums, botanical and zoological gardens and other cultural service activities													
949	Amusement and recreational service activities													
95	Personal and household services													
	SUB-TOTAL				6.2	8.1	10.0	12.6	16.3	17.4	18.4	19.6	24.0	25.0
951	Repair services not elsewhere classified													
	9511 Repair of personal and household goods													
	9512 Electrical repair shops													
	9513 Repair of motor vehicles and motorcycles													
	9514 Watch, clock, and jewellery repair													
	9519 Other repair shops n.e.c.													
952	Laundries, laundry service activities, and cleaning and dyeing plants													
953	Private households with employed persons										1.2	1.2	1.4	1.9
959	Miscellaneous personal services										14.3	15.4	19.3	19.3
	9591 Barber and beauty shops										2.9	3.0	3.3	3.8
	9599 Personal service activities n.e.c.										2.9	3.0	3.3	3.8
96	Extraterritorial organizations and bodies													
	TOTAL i/				166.0	222.9	255.2	306.3	364.6	513.8	513.8	531.9	560.9	577.6
														713.3

OMAN Value Added at Factor Cost, by Economic Activity, according to the International Standard Industrial Classification of all Economic Activities
(millions of Omani)

Draft - prepared: 01-Apr-93

Division	Major Group	Category	Description	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
00	ACTIVITIES NOT ADEQUATELY DEFINED													
<i>(incl. government services in all other sectors, excl. public administration & defense)</i>														
GDP at Factor Cost														
TOTAL j/				41.6	54.4	70.5	79.1	91.0						
Import duties and taxes				2079.6	2518.4	2642.8	2785.2	3093.4	3476.0	2834.7	3046.0	2968.0	3232.2	4154.9
GDP at Market Cost														
TOTAL				2088.2	2529.7	2657.5	2806.9	3125.1	3517.1	2871.7	3072.9	2997.6	3311.6	4187.5

a/ 1986-89 figures include government activities/services in this sector.

b/ Total manufacturing includes petroleum refineries and all other manufacturing industries

c/ 1986-89 figures represent categories 7112 and 7113

d/ 1986-1989 figures include government activities/services in this sector

e/ 1986-89 figures represent categories 8321 and 8322

f/ 1985 and 1990 figures = Public administration and defense + Government services in all other sectors

g/ 1986-1989 figures include government activities/services in this sector

h/ 1986-1989 figures include government activities/services in this sector

i/ 1990 Total = Public administration and defense + All other community, social, and personal services

j/ Totals for "Activities not adequately defined" include government activities/services in sectors not mentioned in footnotes, and excludes public administration and defense (91)

Data Source: *Statistical Year Book 1989*
Quarterly Bulletin Vol. 18, No.1, March 1992, Central Bank of Oman
National Accounts Statistics: Main Aggregates and Detailed Tables 1989, V.I-II, United Nations