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# SURVEY OF AGRO-INDUSTRIES IN THE REPUBLIC OF IRAQ

## A Statistical Report



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION





# **Technical Assessment for the Development of the Agro-Industries Sector in Iraq**

A statistical report prepared for  
the Government of the Republic of Iraq



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VIENNA, 2009

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This report is an outcome of the project “Technical Assessment for the Development of the Agro-Industries Sector in Iraq” (FB/IRQ/07/002) carried out by UNIDO in collaboration with the Central Organization for Statistical and Information Technology (COSIT) of the Ministry of Planning and Development Cooperation, and the Ministry of Industry of the Republic of Iraq. The report was prepared by the Agri-Business Development Branch of UNIDO.

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## 1. Introduction

Over the past two decades, the industrial sector in Iraq has changed significantly, driven by rapid growth in the manufacturing sector. Yet a substantial body of up-to-date industrial statistics and other industry related information is lacking. Data collection is still carried out according to outdated methods. The current government encourages the private sector to invest in business. It has promulgated new investment legislation, such as Law No.13 of 2006, which contains many attractive incentives, privileges and tax exemptions. Measures are also being taken to encourage the development of the Central Organization for Statistics and Information Technology (COSIT) and the Kurdistan Region Statistics Office (KRSO), and to provide credit facilities and grants in order to enable the private sector to play a leading role in the Iraqi economy.

The need to ensure the availability of reliable and up-to-date industrial statistics requires training of COSIT and KRSO technical staff, upgrading of data collection techniques, training in Java programming, supplying COSIT and KRSO with up-to-date PDAs (personal digital assistants) for data collection, and training in technical report writing.

As an initial step toward meeting that need, this pilot project was designed by the United Nations Industrial Development Organization (UNIDO) in collaboration with the Ministry of Planning and Development Cooperation in order to carry out, with the assistance of COSIT, a survey of the Iraqi agro-industrial sector. Local capabilities have been upgraded through training as well as by providing the necessary tools. The project has also provided technical assistance to enhance local capacity to formulate policies and strategies for the development of the industrial sector.

The present report contains the major findings of the "Survey of Agro-Industries in the Republic of Iraq" which was conducted in 2007-2008 and covered the calendar year 2007. The results are presented in accordance with the UN International Recommendations for Industrial Statistics.

## 2. Methodology

### 2.1. Objectives of the survey

The survey was aimed at generating basic statistics on the operating characteristics and structure of agro-industrial establishments in the Republic of Iraq. It was a benchmark exercise and as such was also intended to:

- i. assess the contribution of the agro-industrial sector to the overall economy;
- ii. obtain benchmark data for computing national accounts estimates;
- iii. obtain benchmark data for the construction of input-output.



## 2.2 Unit of enquiry

The statistical unit used for the census was, in principle, an establishment defined as an economic unit which engages, under single ownership or control, in one or predominantly one kind of economic activity at a single physical location. However, for certain firms which could not provide separate data on an establishment basis, the enterprise was used as the unit of enquiry.

## 2.3 Scope and coverage of the survey

The survey covered all medium and large agro-industrial establishments defined as establishments with 10 or more workers. These establishments were identified during a listing exercise carried out in October 2007 (Phase 1). A total of 1,621 manufacturing establishments were surveyed as shown in the table below:

ISIC R3	Number of manufacturing establishments (Phase 1)	Operating establishments			
		Manufacturing sectors		Agro-industrial sector	
		Number	No. of workers (Phase 1)	Number	No. of workers (Phase 2)
15	476	332	27,297	278	27,308
16	4	2	2,347	1	2,756
17	85	28	32,338	18	27,731
18	24	7	4,584		
19	15	5	5,879	9	5047
20	7	6	102	1	21
21	15	7	3,276	1	165
22	30	26	2,217		
23	19	19	20,235		
24	66	31	20,091	6	9,974
25	74	32	1,915		
26	659	498	38,128		
27	17	11	2,153		
28	54	40	7,348		
29	19	13	8,486	1	10
31	12	6	9,432		
32	1	1	473		
34	15	11	4,114		
35	1	1	255		
36	28	16	620	14	655
Total	1,621	1,092	191,290	329	73,667

Of the establishments surveyed, 1,092 were operating and 529 were closed. Among the operating establishments there were 329 medium and large agro-industrial entities which constituted the updated framework of agro-industrial establishments for Phase 2 of the survey.

In addition, the survey covered small agro-industrial establishments (with less than 10 workers) on a sample basis, given the absence of an adequate list of small establishments and the limited resources available. This decision was made in order to provide an insight into the structure and mode of operation of these establishments. 1,020 small establishments were selected from an existing list of 8,987 such establishments located in the 18 Governorates of the Republic of Iraq. This list was provided by COSIT.

Agro-industrial establishments are those establishments engaged in a variety of manufacturing and processing activities based on agricultural raw materials as well as activities and services that constitute agriculture inputs. Manufacturing, according to international recommendations, is defined as the physical or chemical transformation of materials or components into new products, whether the work is performed by power-driven machines or by hand, whether it is done in a factory or in the worker's home, and whether the products are wholesaled or retailed.

#### **2.4 The questionnaire**

The questionnaire was designed according to the International Recommendations for Industrial Statistics of the United Nations and taking into consideration the requirements of COSIT. The information collected satisfied the needs of national accounts and should prove very useful to the government, business users and researchers. The questionnaire, in English, was drafted by a UNIDO expert and finalized after consultations with COSIT. It was later translated into Arabic by COSIT and this version was used in the field. A copy of the questionnaire in English as well as the instructions for filling in the questionnaire are included as appendices to this report.

#### **2.5 The response**

The response rate for both the medium and large agro-industrial establishments, which were covered exhaustively, and the small establishments, which were covered on a sample basis, was 100%. This is based on data provided by COSIT.

#### **2.6 Data collection and processing**

A trained team of 40 enumerators and 18 supervisors recruited by COSIT undertook data collection. Fieldwork started around mid-April and was completed by August 2008. The field staff visited all establishments and helped with filling in the questionnaire through the use of PDAs which were newly introduced for data collection and capture. The respondents were asked to provide data from their accounting records for the calendar year 2007.

The filled-in questionnaires were edited and coded by COSIT staff and transferred to the four regional centres in Baghdad, Basrah, Najaf and Erbil. The data were then sent to a UNIDO database consultant who imported them into an SQL Server database. At the next stage, the data were submitted in MS-Excel format to a UNIDO statistical expert for final editing and checking for accuracy and consistency. This clean data set was used by the database consultant to generate the tables according to the tabulation plan.

## 2.7 Limitations of the statistics presented

This survey was the first of its kind to be conducted in the Republic of Iraq. Thanks to the efforts of the Central Organization for Statistics and Information Technology, an institution that now has the necessary technical capabilities to perform such a task, the survey was a successful exercise. The survey results are a comprehensive data set which COSIT and others can use as benchmark information.

At the same time, it should be noted that the census had its limitations which are listed below:

- i. Although the field staff was trained extensively, it was found that the data still had certain inconsistencies which stemmed from an insufficient understanding of the terms and concepts applied. Moreover, there is a tendency among establishments to hide information relating mainly to output and to over-report on inputs. There is a belief that the supplied information would be transmitted to the fiscal authorities. Carrying out such an exercise on a regular basis would help dissipate this fear and at the same time improve the quality and reliability of the supplied information.
- ii. Due to the security situation in Iraq, the training of national staff was conducted in Amman, Jordan. Fieldwork and data editing, coding and checks were entirely the responsibility of COSIT. The international experts had no direct or total control over the quality of data collected and submitted.
- iii. A number of establishments were engaged in several equally important but dissimilar activities. Since separate records were not available, these establishments were classified according to the activity with the highest output. Figures relating to a particular ISIC group might therefore include data for other activities.
- iv. Given the absence of a proper and updated list of small establishments and the limited resources available, the sampling of establishments was done on a non-scientific basis by using the existing COSIT list. Data for these establishments should therefore be used with caution.
- v. Many establishments could not provide detailed information for certain items such as:
  - a. consumption of electricity, water and fuels separately;
  - b. purchase of raw materials and sales from own production by main product;
  - c. value of stocks as well as value of fixed assets by type.

Others did not provide information on the level of stocks and assets. These and other missing data had to be estimated. Consequently, caution is recommended when using more detailed data such as components of gross output, detailed intermediate consumption, consumption of electricity, water and fuels, etc.

It should also be noted that, due to the absence of adequate detailed data on products, it was not possible to generate reliable tables by product group.

The above limitations, however, have no serious effect on the overall quality and reliability of the survey results. The statistics presented in this report reflect the current status and structure of the agro-industrial sector of the Republic of Iraq. The government, the business community and other users can make good use of these results, which constitute the only available set of information of this kind. When making use of the census results in statistical/economic analysis, users have to be aware of the above limitations.

### 3. Concepts and definitions

**i. Gross output:** The gross output of industries covers the market value of goods and services produced including work in progress and products for own use. The value of goods sold is adjusted by the change in stocks of finished goods and work in progress.

**ii. Intermediate consumption:** The intermediate consumption of industries covers non-durable goods and services used up in production, including repairs and maintenance of the capital stock, research and direct outlays on financing of capital formation such as transfer costs involved in purchases of land and intangible assets. The consumption of materials and supplies is the total cost of purchases adjusted for change in stocks of raw materials.

**iii. Value of stocks:** This comprises the value of all materials and supplies, fuels, finished and semi-finished products and goods for resale held by, or under the control of, the establishment (at the establishment itself or in ancillary or other warehouses).

**iv. Value added:** The value added is equal to gross output less the value of intermediate consumption. The sum of the value added generated by all domestic producers is the gross domestic product (GDP). Value added may be at factor cost, basic prices or producer prices depending on the treatment of taxes on production and subsidies.

**v. Compensation of employees:** The compensation of employees comprises all payments of wages and salaries made by producers to their employees, in kind as well as in cash, and of contributions to social security, private pension funds, casualty insurance and other similar schemes.

Wages and salaries in cash include all payments which employees receive for their work before deductions of employees' contributions to social security schemes. They include commissions, overtime payments, bonuses, cost of living allowance, housing allowance, etc. Wages and salaries in kind are goods and services provided to employees free of charge or at a markedly reduced cost and which are clearly of direct benefit to the employees as consumers.

**vi. Gross operating surplus:** The gross operating surplus is defined as the excess of value added over the cost of employees' compensation.

**vii. Formulae for derived statistical variables**

(a) Gross output = Total 5.1 + 5.2 + Total 5.31 + Total 5.32 - 4.21  
+ 6.2 (closing - opening) + 6.3 (closing - opening)  
+ 6.4 (closing - opening)

(b) Intermediate consumption = Total 4.1 + Total 4.22 + Total 4.31  
+ Total 4.32 + 3.06 - 6.1 (closing - opening)

(c) Expenditure on non-industrial services = Total 4.32 + 3.06

(d) Receipt from non-industrial services = Total 5.32 - 4.21 + 6.4 (closing - opening)

(e) Compensation of employees = Total 3 - 3.06

(f) Taxes on production = 4.45

(g) Subsidies = 5.333

(h) Value added = (a) - (b)

(i) Gross operating surplus = (h) - (e) - (f) + (g)

Note: Numbers refer to numbering in the questionnaire.

## 4. Presentation of tables

Tables in this report are presented in two parts. The tables in the first part refer to medium and large agro-industrial establishments defined as establishments with 10 or more workers. In total, there were 329 such establishments operating at the time of the survey.

The tables in the second part refer to small agro-industrial establishments defined as those operating with less than 10 workers. These establishments, as mentioned previously, were covered on a sample basis. Estimates for the total number of small establishments were done by projecting the data for the sample using "number of establishments" as parameter.

## 5. Major findings of the survey

The manufacturing sector in the Republic of Iraq is still very small but is growing quite rapidly. According to national accounts estimates compiled by COSIT\*, the sector represented about 1.7% of GDP in 2007 but was growing at nearly 6.2% compared to a less than 0.5% growth rate for the entire economy. The present survey reveals that, within manufacturing, activities related to agro-industry represented 44% for all establishments whether small, medium or large. The results of the survey are presented separately for (i) medium and large agro-industrial establishments and (ii) small agro-industrial establishments.

### 5.1 Medium and large establishments

#### 5.1.1 Introduction

Given the degree of data reliability and precision and the need to ensure the confidentiality of information provided by individual establishments, data have been classified in 15 ISIC R3 groups of industrial activities.

#### 5.1.2 Number of establishments

Approximately two-thirds of the 329 medium and large agro-industrial establishments operated in seven cities: Baghdad (62), Erbil (33), Duhok (32), Babil (30), Sulaymaniyah (26), Nainawa (22) and Kirkuk (20).

285 were private, 37 were public and 7 establishments reported as being mixed. Most of these firms were locally owned; only 3 establishments reported as being either totally foreign-owned or in joint venture with foreign investors.

A very large majority (278, or 84%) were operating in the food and beverage sector. Within this group, 147 establishments were in "Manufacture of grain mill products," 31 in "Production of meat, fish, fruit, vegetables, oils and fats," 27 in "Manufacture of bakery products," 24 in "Manufacture of dairy products," and 19 in "Manufacture of cocoa, chocolate and sugar." Table 1.1.2 gives more details on the number of agro-industrial establishments by groups of industrial activities.

\* Annual Abstract of Statistics, 2006-2007

Establishments with 30 or more workers numbered 101, and 18 of these were operating with more than 500 workers. Nine of the latter were in Baghdad. The number of establishments operating with at least 10 but fewer than 30 workers stood at 228.

An analysis by legal type of organization reveals that 108 agro-industrial establishments were operating as "Limited company," 104 as "Individual proprietorship," 37 as "Individual project company," 26 as "Partnership," 21 as "Shareholding company," and 33 were in the "Other" category.

169 establishments started operation before 1991 and 61 reported as having started operation after the war, i.e. since 2003. Of the latter, 15 were in Erbil, 14 in Duhok and 12 in Sulaymaniyah; none of these establishments had a base in Baghdad, which indicates that KRG provinces attracted more investment than the capital in the aftermath of the recent war.

### 5.1.3 Employment and compensation of employees

The total number of workers in the medium and large agro-industrial establishments stood at 73,667. Establishments in Baghdad employed the highest number of workers, 37,636 (51%), of whom 21,387 were in the "Food, beverage and tobacco" sector. Governorates which had relatively significant numbers of workers, ranging from 3,987 to 5,919, were Basrah, Qadissih, Babil, Nainawa, Salahudin and Wasit. Medium and large agro-industrial establishments in the other Governorates had less than 1,000 workers.

The 37 public establishments employed 61,725 workers compared to 10,035 in 285 private establishments. Most of the workers (61,201, or 83%) were employed by the 18 very large establishments operating with 500 or more workers. The 9 establishments in this category which were operating in Baghdad had in total 34,783 workers.

The "Food and beverage" sector employed 27,308 workers. Within this industry group, establishments with activities related to the production of meat, fish, fruit, vegetables, oils, fats, dairy and grain mill products employed 23,565 workers. The other important agro-industry groups in terms of employment were "Spinning, weaving and finishing of textiles" (20,566 workers), "Manufacture of chemicals" (9,984), "Manufacture of other textiles" (7,165) and "Tanning and dressing of leather" (5,047). Details of employment by industry group are shown in Table 1.2.2.

Only 123 workers were non-Iraqis. Establishments which started operation before 1991 employed 66,790 workers while the 61 establishments which started after the war employed only 1,723 workers.

Table 1.2.9 shows the distribution of workers by employment status and sex. Out of the 73,667 workers, 57,424 (78%) were males. 73,247 were salaried employees comprising 24,172 managerial and professional staff and 31,631 operatives, of whom 15,499 were skilled workers and 17,144 were unskilled workers.

In 2007, the medium and large agro-industrial establishments paid a total of ID213,765 million. The average compensation per employee works out at ID2,918,400, or an average of ID243,200 per month. The highest compensations were paid by establishments in "Manufacture of wood products including paper" (ID7,209,000 per employee) followed by establishments operating in "Manufacture of soft drinks" (ID5,617,000 per employee). The lowest compensations were paid by establishments operating in "Production of meat, fish, fruit, vegetables, oils and fats" with an average of only ID1,247,000 per employee.

#### 5.1.4 Output

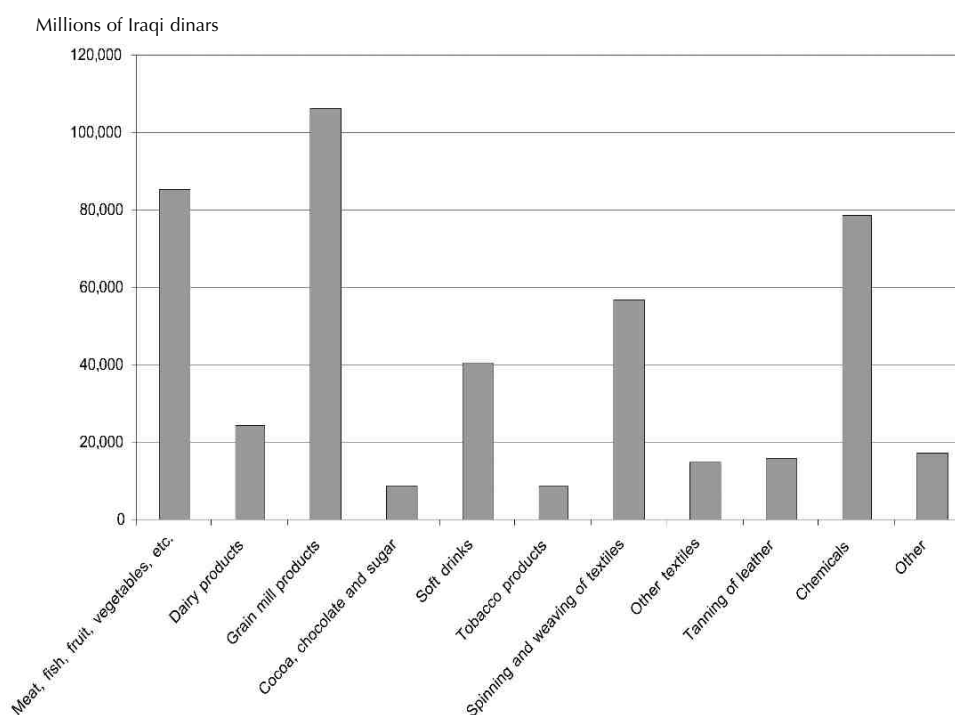
The gross output or total value of goods and services produced by the medium and large agro-industrial establishments amounted to ID964,310 million in 2007 (see Table 1.5.1). Sales of goods amounted to ID857,890 million, of which 24%, or ID202,386 million, came from exports of mainly meat, fish, fruit, vegetables, oils and fats. Services generated ID100,131 million.

The total cost of production, i.e. intermediate consumption, amounted to ID504,630 million, of which ID422,059 million represented the cost of raw materials purchased. Approximately 47% or ID196,576 million worth of raw materials was imported by the medium and large agro-industrial establishments. Services consumed amounted to ID25,099 million while the consumption of electricity, water and fuels stood at ID50,361 million. A breakdown of intermediate consumption by industrial activity is given in Table 1.4.1.

After the deduction of intermediate consumption from gross output, value added, or the contribution of the sector to GDP, works out at ID459,680 million in 2007. Out of the value added generated, ID213,765 million was paid to employees as salaries and wages (compensation of employees). The remainder, plus ID2,806 million received as government subsidies, represented gross operating surplus (gross profits) and amounted to ID248,721 million. This value was the gross amount that went to employers as remuneration for their capital.

An analysis of value added by industry group shows that nearly 23% of the total value added generated by medium and large establishments in 2007 came from the "Manufacture of grain mill products" (ID106,579 million), which reflects a natural dominance of staple food processing at the current development stage of Iraq's economy. Other important industry groups were "Production of meat, fish, fruit, vegetables, oils and fats" (ID85,397 million), "Manufacture of chemicals and chemical products" (ID78,713 million), "Spinning, weaving and finishing of textiles" (ID56,945 million) and "Manufacture of soft drinks" (ID40,645 million).

The value added by main agro-industry group is presented in Table 1.8.1 as well as in the chart below.





### **5.1.5 Value of fixed assets**

The total value of fixed assets held by medium and large agro-industrial establishments at the end of 2007 was ID386,110 million. This value takes into account depreciation during the year. Machinery and equipment had the highest share, approximately 55%. Net investment during the year amounted to ID53,866 million, representing mainly purchase of machinery and equipment and construction of buildings. The value of fixed assets and net investment by type and industrial activity is given in Tables 1.7.1 and 1.7.2

### **5.1.6 Operation ratios**

Value added to gross output ratio works out at 47.7% for the medium and large agro-industrial establishments in 2007. This ratio ranges from 22.5% for the "Manufacture of farinaceous products" to 90.5% for "Manufacture of other textiles." The high ratio for the entire agro-industrial sector may be explained by the specificity of the sector (use of agricultural products as raw materials) and more probably by the environment of risk existing in the country.

Average gross output per establishment was approximately ID2,931 million, ranging from ID435 million for establishments involved in the manufacture of bakery products to ID15,981 million for those which manufacture chemicals; the huge difference reflects the dominance of the public sector in the latter.

Compensation of employees represented 46.5% of value added. The ratio is higher for most establishments outside the food sector. Table 1.0.2 presents the most relevant operation ratios by groups of agro-industrial activities.

## **5.2 Small establishments**

### **5.2.1 Introduction**

As mentioned before, the estimates for this category of establishments are based on the data furnished by a sample of 1,020 firms from an existing list of 8,987 small agro-industrial establishments provided by COSIT. Caution should be exercised when using these estimates as they were subject to errors given that, due to insufficient resources, the selection of the sample was not statistically flawless. However, the results do provide an insight into the structure and mode of operation of small establishments.

Given the degree of data reliability and precision and the need to ensure the confidentiality of information provided by individual establishments, data have been classified in 7 ISIC R3 groups of industrial activities.

### **5.2.2 Number of establishments**

The number of small agro-industrial establishments operating in the Republic of Iraq stood at 8,987 in 2007. Most of these establishments were private.

Approximately 67% of these firms were operating in the food and beverage sector while 22% were involved in the manufacture of furniture. Table 2.1.2 gives more details on the number of small agro-industrial establishments by industrial activity and employment size.

Establishments with less than 5 workers were estimated at 6,018 while those with 6 to 9 workers were estimated at 2,969. An analysis by legal type of organization existing in the country revealed that nearly 95% of the small agro-industrial establishments were individual proprietorships.

### 5.2.3 Employment and compensation of employees

The total number of workers in the small agro-industrial establishments was estimated at 35,296.

The "Food and beverage" sector employed 27,323 workers. Establishments involved in the manufacture of furniture employed 5,604 workers. Details of employment by industry group are shown in Table 2.2.1.

Table 2.2.4 shows the distribution of workers by employment status and sex. Out of the 35,296 workers, 34,459 were males, representing 97.6% and indicating a big gender imbalance. 23,649 were salaried employees, of whom 1,004 were managerial and professional staff and 22,433 were operatives; the latter included 13,877 skilled workers and 212 unskilled workers. Working proprietors, partners and unpaid family members were estimated at 11,647.

In 2007, small agro-industrial establishments paid a total of approximately ID100,600 million. The average compensation per employee works out at ID4,253,000, or an average of ID354,400 per month, compared to an average of ID243,200 per month paid to workers employed by medium and large establishments.

### 5.2.4 Output

The gross output or total value of goods and services produced by the small agro-industrial establishments was estimated at around ID825,475 million (see Table 2.5.1). Sales of goods amounted to ID766,344 million, of which ID27,334 million, or 3.6%, came from exports.

The total cost of production, i.e. intermediate consumption, amounted to ID478,970 million, of which ID373,162 million represented the cost of raw materials purchased. Services consumed were estimated at ID36,045 million while the consumption of electricity, water and fuels stood at ID68,581 million. A breakdown of intermediate consumption by industrial activity is given in Table 2.4.1

After the deduction of intermediate consumption from gross output, value added was estimated at ID346,504 million. Out of the value added generated by the small establishments, ID100,569 million was paid to employees as salaries and wages. Gross operating surplus (gross profits) amounted to ID246,240 million and represented 71% of value added.

An analysis of value added by industry group shows that around 76% of total value added generated by small establishments came from the "Manufacture of other food and beverages" (ID264,055 million). Other important industry groups were "Manufacture of furniture" (ID37,599 million) and "Manufacture of grain mill products" (ID 17,304 million).

The value added of small establishments by main agro-industry group is shown in Table 2.6.1

### 5.2.5 Operation ratios

The value added to gross output ratio works out at 42% for the small agro-industrial establishments. This ratio ranges from 28% for "Tanning and dressing of leather" and "Manufacture of wood products" to 49% for "Manufacture of furniture."

Average gross output per establishment was approximately ID92 million, ranging from ID31 million for establishments involved in the manufacture of textiles to ID223 million for those in the tanning and dressing of leather and the manufacture of wood products.

Compensation of employees represented 29% of value added.

Table 2.0.2 gives the most relevant operation ratios by groups of industrial activities.

### 5.3 Estimates for the entire agro-industrial sector

The table below gives the main indicators for the entire agro-industrial sector in 2007. The total number of agro-industrial establishments in the Republic of Iraq stood at 9,316. These establishments employed 108,963 workers, of whom 96,895 were employees. The total value added generated works out at about ID806,184 million and represents 45% of gross output. Out of the value added, ID314,334 million was paid to the 96,895 employees as compensation. This is equivalent to an average of about ID3,244,068 per employee per year, or ID270,339 per employee per month.

Value in millions of Iraqi dinars

Size of establishments	Number	Number of workers		Gross output	Value added	Employee compensation
		Total	Employees			
Small	8,987	35,296	23,648	825,475	346,504	100,569
Medium and large	329	73,667	73,247	964,310	459,680	213,765
Agro-industries	9,316	108,963	96,895	1,789,785	806,184	314,334

Employee compensation as a percentage of value added works out at 39%.

### 5.4 Qualitative data

This section contains the results based on the responses of both the medium and large establishments and the small establishments to questions pertaining to their characteristics and mode of operation (sections 8 and 9 of the questionnaire).

#### 5.4.1 Affiliation with professional associations

67% of medium and large establishments were affiliated with professional associations compared to only 18% of the small establishments. The table below also gives the percentage of members affiliated with the various associations in the Republic of Iraq. The Iraqi Federation of Industries is more widely associated with medium and large establishments while small enterprises show a preference for the Chamber of Commerce.

Type of establishment	Number of estabs. surveyed	Members of professional associations (%)	Percentage of members associated with			
			Iraqi Federation of Industries	Chamber of Commerce	Governorate associations	Others
Medium and large	329	67	61	58	2	11
Small	1,020	18	25	68	6	10

### 5.4.2 Quality assurance

As shown in the table below, 40% of medium and large establishments had a laboratory and their total number of quality control staff was 1,551. Among small establishments only 1% reported as having a laboratory.

Type of establishment	Percentage of estabs. certified with			Percentage having		Employment	
	Food safety regulations	ISO	Central Bureau of Standards	Raw materials control	Laboratory	Total	Quality control staff
Medium and large	35	5	54	82	40	73,667	1,551
Small	12	1	5	5	1	4,006	7

### 5.4.3 Licensing status

The table below shows that 95% of medium and large establishments held a license compared to 54% of the small enterprises. The main reason for not holding a license in the case of the medium and large establishments was that procedures were too complicated while most of the small establishments thought that they were too small to need a license.

Type of estab.	% of estabs. holding a license	Percentage of licenses with					Reason for not licensing (%)			
		Min. of Industry	Min. of Commerce	MA*	RC**	Others	Finance	Too complicated procedures	Too small	Feel no need
Medium and large	95	57	17	0	6	20	12.5	50	25	12.5
Small	54	16	37	4	1	42	2	10	54	34

\* Municipal authorities

\*\* Registrar of companies

### 5.4.4 Source of water

79% of medium and large establishments used the public network as their source of water compared to 91% of the small establishments. 8% of the medium and large companies had their own source, namely underground water.

Type of establishment	Number surveyed	Source of water			
		Public network	River	Underground	Other
Medium and large	329	79	2	8	11
Small	1,020	91	1	1	7

#### 5.4.5 Tenure and utilization of production capacity

Only 16% of the small establishments owned the premises on which they operated compared to 61% of the medium and large enterprises. Only 46% of establishments irrespective of size used 75% or more of their production capacity.

Type of establishment	Tenure in percentage			Percentage of production capacity in use			
	Wholly owned	Wholly rented	Partly rented	<25%	25% to less than 50 %	50% to less than 75%	>=75%
Medium and large	61	22	17	5	11	38	46
Small	16	73	11	1	10	43	46

#### 5.4.6 Environmental management

74% of medium and large establishments reported that environmental regulations existed in their units compared to 34% of the small firms. Regarding the existence of treatment facilities, the percentages were 62% and 31% respectively.

Type of establishment	Number surveyed	Percentage having environmental regulations	Existence of treatment facilities in percentage		
			Yes	No	No need
Medium and large	329	74	62	18	20
Small	1,020	34	31	37	32

#### 5.4.7 Methods of waste treatment

The table below shows the methods of treatment used by establishments with treatment facilities. The most used method is composting of solid waste.

Type of establishment	Type of waste	Method of treatment in percentage				
		Recycling	Incineration	Landfill	Composting	Others
Medium and large	Water	2				4
	Gas	2				3
	Solid	1	11	10	33	26
Small	Water	0				0
	Gas	0				0
	Solid	1	11	1	57	19

#### 5.4.8 Technology status

Only 3% of small establishments had computerized machinery compared to 19% of medium and large ones. Quite surprisingly, the average age of existing equipment was lower in small establishments than in medium and large companies. The same was true for the expected average lifespan of equipment.

Type of machinery	Percentage		Average age of existing equipment (years)		Expected average lifespan of equipment (years)	
	Medium and large	Small	Medium and large	Small	Medium and large	Small
Manual	26	48	12	9	13	11
Semi-automatic	55	49	16	11	17	12
Computerized	19	3	9	1	11	0

#### 5.4.9 Investment plan

60% of medium and large establishments had investment plans compared to 27% of small firms. The table below also shows the reasons for investing as well as the percentage of establishments investing in other businesses.

Type of establishment	Percentage with investment plans	Reason for investment (%)			% investing in other business
		Replace old equipment	Increase production capacity	Upgrade technology	
Medium and large	60	38	33	29	7
Small	27	51	29	20	1

#### 5.4.10 IT facilities

Few establishments had IT facilities and the percentage of small firms that had such facilities was extremely low. 16% of medium and large establishments had websites and only 14% had e-mail facilities. Normally, the use of e-mail is higher than the availability of a website.

Type of establishment	E-mail	Website	LAN	WAN
Medium and Large	14	16	12	3
Small	1	1	3	3

**Table 5.4.11a: Main problems encountered**

By far the most widespread problem was the inadequate supply of electricity: 89% of the medium and large establishments and 84 % of the small ones faced this problem. Other significant problems were the insufficient availability of inputs like fuels, lubricants, etc., and security. The table below provides more information on the main problems encountered.

Problem	Percentage of response	
	Medium and large establishments	Small establishments
Insufficient demand	26	30
Shortage of raw materials	54	35
Security	54	48
Insufficient production capacity	25	12
Lack of equipment	21	17
Transport problems	40	16
Quality of raw materials	31	24
Spare parts and after-sale services	22	5
Long and complicated bureaucratic procedures	24	7
High cost of production	47	39
Inadequate supply of electricity	89	84
Inadequate supply of water	45	31
Insufficient availability of fuels, lubricants, etc.	69	55

Note: Multiple responses were allowed

**Table 5.4.11b: Other problems encountered**

Two main problems mentioned by the few medium and large establishments which exported their products were "uncertain economic environment" (24%) and "lack of information on foreign markets" (17%).

Problem	Percentage of response	
	Medium and large establishments	Small establishments
Domestic supply is insufficient	15	3
Foreign demand is insufficient	10	0
Low selling prices	13	4
Lack of information on foreign markets	17	1
Competition among Iraqi exporters	12	1
Competition among Middle East exporters	12	1
Competition with Chinese exporters	18	3
Competition among other exporters	13	1
Uncertain economic environment	24	1
Unclear or restrictive economic laws	10	0

Note: Multiple responses were allowed

# **Statistical tables**

## **Part I: Medium and large agro-industrial establishments**



Value in millions of Iraqi dinars

Table 1.0.1: Main indicators by industrial activity (ISIC R3)

ISIC R3	Description	No. of estab.	Number of workers			Gross output		Value added (basic prices)		Employee compensation	
			Total		Employees	Value	%	Value	%	Value	%
			Number	%							
151	Prod. of meat, fish, fruit, vegetables, oils and fats	31	6,735	9.1	6,697	260,414.0	27.0	85,397.0	18.6	8,353.3	3.9
152	Manufacture of dairy products	24	8,990	12.2	8,940	47,670.0	4.9	24,600.0	5.3	16,305.1	7.6
153	Manufacture of grain mill products, etc.	147	7,840	10.6	7,629	225,541.9	23.4	106,579.0	23.2	25,836.8	12.1
1541	Manufacture of bakery products	27	381	0.5	350	11,745.2	1.2	5,387.1	1.2	1,844.0	0.9
1543	Manufacture of cocoa, chocolate and sugar	19	770	1.0	743	17,253.8	1.8	8,851.1	1.9	2,975.3	1.4
1544	Manufacture of farinaceous products	6	127	0.2	120	5,573.6	0.6	1,252.8	0.3	251.7	0.1
1549	Manufacture of other products n.e.c.	12	266	0.4	254	7,518.5	0.8	3,692.9	0.8	1,032.4	0.5
1554	Manufacture of soft drinks, mineral waters	12	2,199	3.0	2,193	140,553.1	14.6	40,645.0	8.8	12,318.7	5.8
1600	Manufacture of tobacco products	1	2,756	3.7	2,756	11,467.9	1.2	9,083.8	2.0	8,885.0	4.2
171	Spinning, weaving and finishing of textiles	9	20,566	27.9	20,565	68,794.8	7.1	56,945.3	12.4	49,989.2	23.3
172	Manufacture of other textiles	9	7,165	9.7	7,165	16,568.5	1.7	14,996.1	3.3	14,482.4	6.8
19	Tanning and dressing of leather	9	5,047	6.9	5,035	28,195.9	2.9	16,274.3	3.5	15,018.8	7.0
20,21	Manufacture of wood products including paper	2	186	0.3	183	2,855.0	0.3	1,506.7	0.3	1,319.2	0.6
24,29	Man. of chemicals, agricultural machinery	7	9,984	13.6	9,979	111,864.9	11.6	78,713.2	17.1	53,009.9	24.8
3610	Manufacture of furniture	14	655	0.9	638	8,292.8	0.9	5,755.8	1.3	2,142.9	1.0
	Agro-industrial sector	329	73,667	100	73,247	964,309.9	100	459,680.1	100	213,764.9	100

**Table 1.0.2: Operation ratios by industrial activity (ISIC R3)**

Value in thousands of Iraqi dinars

ISIC R3	Description	No. of estabs.	Gross output (GO) per		Value added (bp*) as % of GO	Value added (bp) per		Employee compensation	
			Establishment	Worker		Establishment	Worker	Per employee	% of value added
151	Prod. of meat, fish, fruit, vegetables, oils and fats	31	8,400,453	38,666	32.8	2,754,741	12,680	1,247	9.8
152	Manufacture of dairy products	24	1,986,249	5,303	51.6	1,024,999	2,736	1,824	66.3
153	Manufacture of grain mill products, etc.	147	1,534,299	28,768	47.3	725,027	13,594	3,387	24.2
1541	Manufacture of bakery products	27	435,009	30,827	45.9	199,522	14,139	5,269	34.2
1543	Manufacture of cocoa, chocolate and sugar	19	908,095	22,408	51.3	465,848	11,495	4,004	33.6
1544	Manufacture of farinaceous products	6	928,930	43,886	22.5	208,796	9,864	2,097	20.1
1549	Manufacture of other products n.e.c.	12	626,546	28,265	49.1	307,744	13,883	4,065	28.0
1554	Manufacture of soft drinks, mineral waters	12	11,712,757	63,917	28.9	3,387,081	18,483	5,617	30.3
1600	Manufacture of tobacco products	1	11,467,866	4,161	79.2	9,083,788	3,296	3,224	97.8
171	Spinning, weaving and finishing of textiles	9	7,643,862	3,345	82.8	6,327,255	2,769	2,431	87.8
172	Manufacture of other textiles	9	1,860,942	2,312	90.5	1,666,239	2,093	2,021	96.6
19	Tanning and dressing of leather	9	3,132,882	5,587	57.7	1,808,255	3,225	2,983	92.3
20,21	Manufacture of wood products including paper	2	1,427,521	15,350	52.8	753,354	8,101	7,209	87.6
24,29	Man. of chemicals, agricultural machinery	7	15,980,696	11,204	70.4	11,244,748	7,884	5,312	67.3
3610	Manufacture of furniture	14	592,342	12,661	69.4	411,129	8,787	3,359	37.2
	Agro-industrial sector	329	2,931,033	13,090	47.7	1,397,204	6,240.0	2,918.4	46.5

\* Basic prices

**Table 1.1.1: Number of establishments by region and main industry group**

Geographical region	Main industry group					Total
	Food, beverages and tobacco	Textiles	Paper wood products, leather, etc	Chemicals, etc.	Furniture	
Anbar	6	0	5	0	1	12
Basrah	15	0	0	1	0	16
Mothana	3	0	0	0	0	3
Najaf	6	0	0	0	0	6
Qadissih	7	1	0	0	0	8
Kirkuk	16	1	0	1	2	20
Babil	25	4	0	0	1	30
Baghdad	53	3	4	1	1	62
Diala	19	0	0	0	0	19
Duhok	28	1	2	0	1	32
Erbil	25	3	0	0	5	33
Kerbala	10	0	0	0	0	10
Missaan	7	0	0	0	0	7
Nainawa	18	1	0	1	2	22
Salahudin	6	0	0	3	0	9
Sulaymaniyah	23	2	0	0	1	26
Thi Qar	7	0	0	0	0	7
Wasit	5	2	0	0	0	7
Republic of Iraq	279	18	11	7	14	329

**Table 1.1.2: Number of establishments by industrial activity (ISIC R3) and form of ownership**

ISIC R3	Description	Form of ownership				Total
		Public	Mixed	Cooperative	Private	
151	Production of meat, fish, fruit, vegetables, oils and fats	2	3	0	26	31
152	Manufacture of dairy products	4	0	0	20	24
153	Manufacture of grain mill products, etc.	7	0	0	140	147
1541	Manufacture of bakery products	0	0	0	27	27
1543	Manufacture of cocoa, chocolate and sugar	0	0	0	19	19
1544	Manufacture of farinaceous products	0	0	0	6	6
1549	Manufacture of other products n.e.c.	0	0	0	12	12
1554	Manufacture of soft drinks, mineral waters	0	1	0	11	12
1600	Manufacture of tobacco products	1	0	0	0	1
171	Spinning, weaving and finishing of textiles	8	0	0	1	9
172	Manufacture of other textiles	8	0	0	1	9
19	Tanning and dressing of leather	1	0	0	8	9
20,21	Manufacture of wood products including paper	0	1	0	1	2
24,29	Manufacture of chemicals, agricultural machinery	3	1	0	3	7
3610	Manufacture of furniture	3	1	0	10	14
	Agro-industrial sector	37	7	0	285	329

**Table 1.1.3: Number of establishments by industrial activity (ISIC R3) and employment size**

ISIC R3	Description	Employment size						Total
		10 - 19	20 - 29	30 - 49	50 - 99	100 - 499	>=500	
151	Production of meat, fish, fruit, vegetables, oils and fats	9	13	0	5	3	1	31
152	Manufacture of dairy products	7	8	1	3	4	1	24
153	Manufacture of grain mill products, etc.	24	78	17	25	2	1	147
1541	Manufacture of bakery products	25	1	1	0	0	0	27
1543	Manufacture of cocoa, chocolate and sugar	14	2	0	0	3	0	19
1544	Manufacture of farinaceous products	3	3	0	0	0	0	6
1549	Manufacture of other products n.e.c.	7	4	0	1	0	0	12
1554	Manufacture of soft drinks, mineral waters	1	3	0	6	0	2	12
1600	Manufacture of tobacco products	0	0	0	0	0	1	1
171	Spinning, weaving and finishing of textiles	1	0	0	1	1	6	9
172	Manufacture of other textiles	2	0	1	2	2	2	9
19	Tanning and dressing of leather	6	2	0	0	0	1	9
20,21	Manufacture of wood products including paper	0	1	0	0	1	0	2
24,29	Manufacture of chemicals, agricultural machinery	2	0	1	0	1	3	7
3610	Manufacture of furniture	6	6	0	0	2	0	14
	Agro-industrial sector	107	121	21	43	19	18	329

**Table 1.1.4: Number of establishments by region and employment size**

Geographical region	Employment size						Total
	10 - 19	20 - 29	30 - 49	50 - 99	100 - 499	>=500	
Anbar	6	2	1	3	0	0	12
Basrah	0	8	2	5	0	1	16
Mothana	1	1	0	1	0	0	3
Najaf	2	0	1	2	0	1	6
Qadissih	0	1	4	1	1	1	8
Kirkuk	3	12	1	4	0	0	20
Babil	5	16	1	4	3	1	30
Baghdad	25	11	2	7	8	9	62
Diala	5	13	0	1	0	0	19
Duhok	19	10	2	1	0	0	32
Erbil	18	12	2	1	0	0	33
Kerbala	1	6	0	2	1	0	10
Missaan	2	5	0	0	0	0	7
Nainawa	6	7	1	4	2	2	22
Salahudin	2	3	1	2	0	1	9
Sulaymaniyah	12	7	1	4	2	0	26
Thi Qar	0	5	1	0	1	0	7
Wasit	0	2	1	1	1	2	7
Republic of Iraq	107	121	21	43	19	18	329

**Table 1.1.5: Number of establishments by industrial activity (ISIC R3) and legal type of organization**

ISIC R3	Description	Legal type of organization						Total
		Individual proprietorship	Individual project company	Shareholding company	Limited company	Partnership	Other	
151	Prod. of meat, fish, fruit, vegetables, oils and fats	10	7	2	5	3	4	31
152	Manufacture of dairy products	8	3	1	6	2	4	24
153	Manufacture of grain mill products, etc.	41	16	10	69	6	5	147
1541	Manufacture of bakery products	13	3	0	3	8	0	27
1543	Manufacture of cocoa, chocolate and sugar	7	0	2	8	2	0	19
1544	Manufacture of farinaceous products	5	0	1	0	0	0	6
1549	Manufacture of other products n.e.c.	4	3	1	2	2	0	12
1554	Manufacture of soft drinks, mineral waters	1	0	4	5	1	1	12
1600	Manufacture of tobacco products	0	0	0	0	0	1	1
171	Spinning, weaving and finishing of textiles	2	0	0	2	0	5	9
172	Manufacture of other textiles	1	1	0	3	0	4	9
19	Tanning and dressing of leather	3	2	0	2	0	2	9
20,21	Manufacture of wood products including paper	0	0	0	0	1	1	2
24,29	Manufacture of chemicals, agricultural machinery	3	0	0	0	0	4	7
3610	Manufacture of furniture	6	2	0	3	1	2	14
	Agro-industrial sector	104	37	21	108	26	33	329

**Table 1.1.6: Number of establishments  
by industrial activity (ISIC R3) and year of operation start**

ISIC R3	Description	Start of operation			Total
		Before 1991	After 1991 but before 2003	Since 2003	
151	Prod. of meat, fish, fruit, vegetables, oils and fats	15	8	8	31
152	Manufacture of dairy products	18	3	3	24
153	Manufacture of grain mill products, etc.	84	40	23	147
1541	Manufacture of bakery products	5	11	11	27
1543	Manufacture of cocoa, chocolate and sugar	9	8	2	19
1544	Manufacture of farinaceous products	1	3	2	6
1549	Manufacture of other products n.e.c.	4	7	1	12
1554	Manufacture of soft drinks, mineral waters	4	4	4	12
1600	Manufacture of tobacco products	1	0	0	1
171	Spinning, weaving and finishing of textiles	9	0	0	9
172	Manufacture of other textiles	3	6	0	9
19	Tanning and dressing of leather	3	4	2	9
20,21	Manufacture of wood products including paper	1	1	0	2
24,29	Manufacture of chemicals, agricultural machinery	4	2	1	7
3610	Manufacture of furniture	8	2	4	14
	Agro-industrial sector	169	99	61	329



**Table 1.1.7: Number of establishments by region and year of operation start**

Geographical region	Start of operation			Total
	Before 1991	After 1991 but before 2003	Since 2003	
Anbar	4	6	2	12
Basrah	8	3	5	16
Mothana	3	0	0	3
Najaf	2	4	0	6
Qadissih	5	2	1	8
Kirkuk	10	8	2	20
Babil	19	8	3	30
Baghdad	51	11	0	62
Diala	10	9	0	19
Duhok	1	17	14	32
Erbil	10	8	15	33
Kerbala	8	2	0	10
Missaan	3	3	1	7
Nainawa	18	3	1	22
Salahudin	3	3	3	9
Sulaymaniyah	7	7	12	26
Thi Qar	2	4	1	7
Wasit	5	1	1	7
Republic of Iraq	169	99	61	329

**Table 1.2.1: Employment by region  
and main industry group**

Geographical region	Main industry group					Total
	Food, beverages and tobacco	Textiles	Paper, wood products, leather, etc.	Chemicals, etc.	Furniture	
Anbar	324	0	60	0	11	395
Basrah	649	0	0	3,338	0	3,987
Mothana	114	0	0	0	0	114
Najaf	709	0	0	0	0	709
Qadissih	547	3,993	0	0	0	4,540
Kirkuk	599	83	0	10	61	753
Babil	1,024	4,180	0	0	11	5,215
Baghdad	21,387	10,726	5,127	146	250	37,636
Diala	518	0	0	0	0	518
Duhok	581	11	46	0	30	668
Erbil	507	128	0	0	110	745
Kerbala	560	0	0	0	0	560
Missaan	166	0	0	0	0	166
Nainawa	773	2,928	0	2,051	167	5,919
Salahudin	209	0	0	4,439	0	4,648
Sulaymaniyah	708	189	0	0	15	912
Thi Qar	326	0	0	0	0	326
Wasit	363	5,493	0	0	0	5,856
Republic of Iraq	30,064	27,731	5,223	9,984	655	73,667

**Table 1.2.2: Employment by industrial activity (ISIC R3) and form of ownership**

ISIC R3	Description	Form of ownership				Total
		Public	Mixed	Cooperative	Private	
151	Prod. of meat, fish, fruit, vegetables, oils and fats	5,371	306	0	1,058	6,735
152	Manufacture of dairy products	7,896	0	0	1,094	8,990
153	Manufacture of grain mill products, etc.	2,986	0	0	4,854	7,840
1541	Manufacture of bakery products	0	0	0	381	381
1543	Manufacture of cocoa, chocolate and sugar	0	0	0	770	770
1544	Manufacture of farinaceous products	0	0	0	127	127
1549	Manufacture of other products n.e.c.	0	0	0	266	266
1554	Manufacture of soft drinks, mineral waters	0	1,140	0	1,059	2,199
1600	Manufacture of tobacco products	2,756	0	0	0	2,756
171	Spinning, weaving and finishing of textiles	20,554	0	0	12	20,566
172	Manufacture of other textiles	7,152	0	0	13	7,165
19	Tanning and dressing of leather	4,925	0	0	122	5,047
20,21	Manufacture of wood products including paper	0	165	0	21	186
24,29	Manufacture of chemicals, agricultural machinery	9,767	146	0	71	9,984
3610	Manufacture of furniture	318	150	0	187	655
	Agro-industrial sector	61,725	1,907	0	10,035	73,667

**Table 1.2.3: Employment by industrial activity (ISIC R3) and employment size**

ISIC R3	Description	Employment size						Total
		10-19	20-29	30-49	50-99	100-499	>=500	
151	Production of meat, fish, fruit, vegetables, oils and fats	117	373	0	363	550	5,332	6,735
152	Manufacture of dairy products	94	208	46	189	1,053	7,400	8,990
153	Manufacture of grain mill products, etc.	341	2,270	740	1,603	382	2,504	7,840
1541	Manufacture of bakery products	315	24	42	0	0	0	381
1543	Manufacture of cocoa, chocolate and sugar	193	62	0	0	515	0	770
1544	Manufacture of farinaceous products	51	76	0	0	0	0	127
1549	Manufacture of other products n.e.c.	91	102	0	73	0	0	266
1554	Manufacture of soft drinks, mineral waters	12	84	0	443	0	1,660	2,199
1600	Manufacture of tobacco products	0	0	0	0	0	2,756	2,756
171	Spinning, weaving and finishing of textiles	12	0	0	73	136	20,345	20,566
172	Manufacture of other textiles	24	0	42	136	451	6,512	7,165
19	Tanning and dressing of leather	76	46	0	0	0	4,925	5,047
20,21	Manufacture of wood products including paper	0	21	0	0	165	0	186
24,29	Manufacture of chemicals, agricultural machinery	25	0	46	0	146	9,767	9,984
3610	Manufacture of furniture	74	181	0	0	400	0	655
	Agro-industrial sector	1,425	3,447	916	2,880	3,798	61,201	73,667

**Table 1.2.4: Employment by region and employment size**

Geographical region	Employment size						Total
	10-19	20-29	30-49	50-99	100-499	>=500	
Anbar	71	69	46	209	0	0	395
Basrah	0	245	81	323	0	3,338	3,987
Mothana	17	36	0	61	0	0	114
Najaf	26	0	40	123	0	520	709
Qadissih	0	36	174	54	283	3,993	4,540
Kirkuk	42	376	45	290	0	0	753
Babil	66	440	41	246	705	3,717	5,215
Baghdad	349	251	94	454	1,705	34,783	37,636
Diala	84	375	0	59	0	0	518
Duhok	229	268	86	85	0	0	668
Erbil	217	371	84	73	0	0	745
Kerbala	17	176	0	135	232	0	560
Missaan	27	139	0	0	0	0	166
Nainawa	83	204	45	295	313	4,979	5,919
Salahudin	32	67	46	125	0	4,378	4,648
Sulaymaniyah	165	178	44	275	250	0	912
Thi Qar	0	156	42	0	128	0	326
Wasit	0	60	48	73	182	5,493	5,856
Republic of Iraq	1,425	3,447	916	2,880	3,798	61,201	73,667

**Table 1.2.5: Employment by industrial activity (ISIC R3) and legal type of organization**

ISIC R3	Description	Employment size						Total
		Individual proprietorship	Individual project company	Shareholding company	Limited company	Partnership	Other	
151	Prod. of meat, fish, fruit, vegetables, oils and fats	302	248	198	307	42	5,638	6,735
152	Manufacture of dairy products	211	75	11	777	20	7,896	8,990
153	Manufacture of grain mill products, etc.	1,372	525	336	2,460	218	2,929	7,840
1541	Manufacture of bakery products	166	50	0	43	122	0	381
1543	Manufacture of cocoa, chocolate and sugar	102	0	183	449	36	0	770
1544	Manufacture of farinaceous products	105	0	22	0	0	0	127
1549	Manufacture of other products n.e.c.	46	77	17	91	35	0	266
1554	Manufacture of soft drinks, mineral waters	96	0	711	228	24	1,140	2,199
1600	Manufacture of tobacco products	0	0	0	0	0	2,756	2,756
171	Spinning, weaving and finishing of textiles	4,005	0	0	209	0	16,352	20,566
172	Manufacture of other textiles	222	13	0	106	0	6,824	7,165
19	Tanning and dressing of leather	48	22	0	37	0	4,940	5,047
20,21	Manufacture of wood products including paper	0	0	0	0	21	165	186
24,29	Manufacture of chemicals, agricultural machinery	71	0	0	0	0	9,913	9,984
3610	Manufacture of furniture	74	52	0	99	30	400	655
	Agro-industrial sector	6,820	1,062	1,478	4,806	548	58,953	73,667

**Table 1.2.6: Employment by industrial activity (ISIC R3) and year of operation start**

ISIC R3	Description	Start of operation			Total
		Before 1991	After 1991 but before 2003	Since 2003	
151	Production of meat, fish, fruit, vegetables, oils and fats	6,180	223	332	6,735
152	Manufacture of dairy products	8,819	78	93	8,990
153	Manufacture of grain mill products, etc.	5,312	1,745	783	7,840
1541	Manufacture of bakery products	72	142	167	381
1543	Manufacture of cocoa, chocolate and sugar	621	108	41	770
1544	Man. of farinaceous products	18	54	55	127
1549	Manufacture of other products n.e.c.	112	144	10	266
1554	Manufacture of soft drinks, mineral waters	1,315	762	122	2,199
1600	Manufacture of tobacco products	2,756	0	0	2,756
171	Spinning, weaving and finishing of textiles	20,566	0	0	20,566
172	Manufacture of other textiles	5,668	1,497	0	7,165
19	Tanning and dressing of leather	4,962	63	22	5,047
20,21	Manufacture of wood products including paper	165	21	0	186
24,29	Manufacture of chemicals, agricultural machinery	9,913	56	15	9,984
3610	Manufacture of furniture	311	261	83	655
	Agro-industrial sector	66,790	5,154	1,723	73,667

**Table 1.2.7: Employment by region and year of operation start**

Geographical region	Start of operation			Total
	Before 1991	After 1991 but before 2003	Since 2003	
Anbar	244	129	22	395
Basrah	3,650	107	230	3,987
Mothana	114	0	0	114
Najaf	26	683	0	709
Qadissih	4,415	89	36	4,540
Kirkuk	296	390	67	753
Babil	4,243	852	120	5,215
Baghdad	36,250	1,386	0	37,636
Diala	316	202	0	518
Duhok	11	335	322	668
Erbil	301	115	329	745
Kerbala	425	135	0	560
Missaan	68	86	12	166
Nainawa	5,747	149	23	5,919
Salahudin	4,449	87	112	4,648
Sulaymaniyah	376	145	391	912
Thi Qar	63	234	29	326
Wasit	5,796	30	30	5,856
Republic of Iraq	66,790	5,154	1,723	77,667



**Table 1.2.8: Number of establishments and employment by industrial activity (ISIC R3) and location**

ISIC R3	Description	Urban		Rural		Total	
		No. of estabts.	Employment	No. of estabts.	Employment	No. of estabts.	Employment
151	Prod. of meat, fish, fruit, vegetables, oils and fats	28	6,570	3	165	31	6,735
152	Manufacture of dairy products	23	8,925	1	65	24	8,990
153	Manufacture of grain mill products, etc.	135	7,185	12	655	147	7,840
1541	Manufacture of bakery products	27	381	0	0	27	381
1543	Manufacture of cocoa, chocolate and sugar	19	770	0	0	19	770
1544	Manufacture of farinaceous products	4	90	2	37	6	127
1549	Manufacture of other products n.e.c	11	235	1	31	12	266
1554	Manufacture of soft drinks, mineral waters	10	1,629	2	570	12	2,199
1600	Manufacture of tobacco products	1	2,756	0	0	1	2,756
171	Spinning, weaving and finishing of textiles	9	20,566	0	0	9	20,566
172	Manufacture of other textiles	9	7,165	0	0	9	7,165
19	Tanning and dressing of leather	4	4,974	5	73	9	5,047
20,21	Manufacture of wood products including paper	1	165	1	21	2	186
24,29	Man. of chemicals, agricultural machinery	5	4,595	2	5,389	7	9,984
3610	Manufacture of furniture	11	367	3	288	14	655
Agro-industrial sector		297	66,373	32	7,294	329	73,667

**Table 1.2.9: Number of workers by industrial activity (ISIC R3), employment status and sex**

ISIC R3	Description	Unpaid workers*		Employees								Grand total		
		Male	Female	Managerial and professional staff		Operatives, skilled		Operatives, unskilled		Other		Male	Female	Total
				Male	Female	Male	Female	Male	Female	Male	Female			
151	Prod. of meat, fish, fruit, vegetables, oils and fats	38	0	1,120	251	1,392	209	1,408	274	1,661	382	5,619	1,116	6,735
152	Manufacture of dairy products	50	0	774	209	1,096	398	1,995	880	3,084	504	6,999	1,991	8,990
153	Manufacture of grain mill products, etc.	208	3	1,875	668	1,449	170	2,601	47	416	403	6,549	1,291	7,840
1541	Manufacture of bakery products	31	0	24	0	97	0	180	44	5	0	337	44	381
1543	Manufacture of cocoa, chocolate and sugar	27	0	147	5	118	23	345	50	50	5	687	83	770
1544	Manufacture of farinaceous products	7	0	17	0	21	0	59	9	14	0	118	9	127
1549	Manufacture of other products n.e.c.	12	0	30	5	63	10	85	48	13	0	203	63	266
1554	Manufacture of soft drinks, mineral waters	6	0	467	66	378	5	666	20	578	13	2,095	104	2,199
1600	Manufacture of tobacco products	0	0	203	52	245	55	240	190	1,330	441	2,018	738	2,756
171	Spinning, weaving and finishing of textiles	1	0	6,982	2,882	5,079	940	1,884	698	1,739	361	15,685	4,881	20,566
172	Manufacture of other textiles	0	0	1,060	528	1,039	1,423	959	334	1,330	492	4,388	2,777	7,165
19	Tanning and dressing of leather	12	0	332	124	418	305	1,775	518	1,155	407	3,693	1,354	5,047
20,21	Manufacture of wood products including paper	3	0	27	19	23	2	47	9	44	12	144	42	186
24,29	Man. of chemicals, agricultural machinery	5	0	5,064	1,182	280	133	355	143	2,564	258	8,268	1,716	9,984
3610	Manufacture of furniture	17	0	50	9	128	0	257	11	169	14	621	34	655
	Agro-industrial sector	417	3	18,172	6,000	11,826	3,673	12,857	3,275	14,152	3,292	57,424	16,243	73,667

\* Working owners, partners, unpaid family members

**Table 1.2.10: Evolution in employment by industrial activity (ISIC R3)**

ISIC R3	Description	Employment, 30th June 2007			Employment, 31st December 2007		
		Male	Female	Total	Male	Female	Total
151	Prod. of meat, fish, fruit, vegetables, oils and fats	5,590	1,099	6,689	5,619	1,116	6,735
152	Manufacture of dairy products	6,976	2,005	8,981	6,999	1,991	8,990
153	Manufacture of grain mill products, etc.	6,397	1,291	7,688	6,549	1,291	7,840
1541	Manufacture of bakery products	307	44	351	337	44	381
1543	Manufacture of cocoa, chocolate and sugar	700	82	782	687	83	770
1544	Manufacture of farinaceous products	76	9	85	118	9	127
1549	Manufacture of other products n.e.c.	211	65	276	203	63	266
1554	Manufacture of soft drinks, mineral waters	1,982	104	2,086	2,095	104	2,199
1600	Manufacture of tobacco products	2,018	738	2,756	2,018	738	2,756
171	Spinning, weaving and finishing of textiles	15,686	4,889	20,575	15,685	4,881	20,566
172	Manufacture of other textiles	4,463	2,808	7,271	4,388	2,777	7,165
19	Tanning and dressing of leather	3,695	1,354	5,049	3,693	1,354	5,047
20,21	Manufacture of wood products including paper	145	42	187	144	42	186
24,29	Man. of chemicals, agricultural machinery	8,281	1,718	9,999	8,268	1,716	9,984
3610	Manufacture of furniture	583	35	618	621	34	655
	Agro-industrial sector	57,110	16,283	73,393	57,424	16,243	73,667

**Table 1.3.1: Detailed compensation of employment by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Gross wages and salaries	Overtime payments	Travel expenses	Payments in kind	Social security scheme	Other	Total compensation
151	Prod. of meat, fish, fruit, vegetables, oils and fats	6,089.6	70.2	41.6	2,034.8	114.5	2.7	8,353.3
152	Manufacture of dairy products	15,535.0	119.4	72.0	508.5	68.2	2.1	16,305.1
153	Manufacture of grain mill products, etc.	24,063.4	141.5	109.0	1,184.1	290.5	48.2	25,836.7
1541	Manufacture of bakery products	1,575.6	8.7	18.8	211.1	28.8	1.2	1,844.0
1543	Manufacture of cocoa, chocolate and sugar	2,714.8	7.8	6.8	206.7	38.1	1.2	2,975.3
1544	Manufacture of farinaceous products	210.1	8.5	2.9	29.0	1.2	0.0	251.7
1549	Manufacture of other products n.e.c.	887.0	1.0	11.1	108.2	24.9	0.2	1,032.4
1554	Manufacture of soft drinks, mineral waters	10,509.0	484.9	115.3	479.7	534.8	195.2	12,318.8
1600	Manufacture of tobacco products	8,874.2	0.0	10.4	0.4	0.0	0.0	8,885.0
171	Spinning, weaving and finishing of textiles	49,431.0	316.1	219.1	21.1	1.7	0.0	49,989.2
172	Manufacture of other textiles	14,443.9	6.0	25.0	7.5	0.0	0.0	14,482.4
19	Tanning and dressing of leather	13,701.8	0.0	97.7	12,144.4	4.8	0.0	15,018.7
20,21	Manufacture of wood products including paper	1,153.7	12.0	0.0	20.2	43.7	89.6	1,319.2
24,29	Man. of chemicals, agricultural machinery	50,876.4	1,456.4	286.6	327.1	63.3	0.1	53,009.9
3610	Manufacture of furniture	1,902.9	17.5	105.2	100.0	14.5	2.8	2,142.9
	Agro-industrial sector	201,968.4	2,650.0	1,121.5	6,452.7	1,229.1	343.2	213,764.9

**Table 1.4.1: Detailed intermediate consumption by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Raw materials & supplies		Electricity, water & fuels	Industrial services	Non-industrial services	Other expenses	Change in stock*	Intermediate consumption
		Imported	Local						
151	Prod. of meat, fish, fruit, vegetables, oils and fats	9,115.8	159,167.7	4,311.6	742.0	1,067.3	15.5	-597.1	175,017.1
152	Manufacture of dairy products	11,599.7	9,009.6	1,998.5	509.0	606.5	1.2	654.5	23,070.0
153	Manufacture of grain mill products, etc.	69,864.0	23,157.7	13,299.2	5,170.0	7,421.1	36.8	-14.2	118,962.9
1541	Manufacture of bakery products	5,116.1	175.8	716.6	71.2	275.8	5.0	2.5	6,358.1
1543	Manufacture of cocoa, chocolate and sugar	4,123.3	2,550.8	1,638.9	130.7	598.2	9.2	648.4	8,402.7
1544	Manufacture of farinaceous products	3,,986.4	0.0	392.8	25.3	50.4	0.0	134.0	4,320.8
1549	Manufacture of other products n.e.c.	2,022.0	1,280.7	403.5	43.5	96.1	3.1	23.2	3,825.6
1554	Manufacture of soft drinks, mineral waters	76,621.9	12,608.8	8,438.5	1,245.3	1,365.2	0.0	371.6	99,908.1
1600	Manufacture of tobacco products	343.1	9.2	67.7	22.6	11.0	0.0	-1,930.5	2,384.1
171	Spinning, weaving and finishing of textiles	281.1	5,391.0	646.0	311.0	571.4	1.7	-4,647.2	11,849.5
172	Manufacture of other textiles	300.0	1,050.8	193.5	45.5	411.8	0.0	429.1	1,572.3
19	Tanning and dressing of leather	1,327.6	7,284.8	906.4	975.3	1,775.6	4.5	352.5	11,921.6
20,21	Manufacture of wood products including paper	937.0	36.9	199.7	33.1	60.3	0.0	-81.3	1,348.3
24,29	Man. of chemicals, agricultural machinery	9,279.1	3,452.9	17,012.1	634.9	457.4	5,304.6	2,989.3	33,151.6
3610	Manufacture of furniture	1,659.2	306.2	136.1	109.9	261.4	0.0	-64.2	2,537.0
	Agro-industrial sector	196,576.2	225,482.9	50,361.1	10,069.3	15,029.5	5,381.5	-1,729.4	504,629.9

\* Closing stock minus opening stock

**Table 1.4.2: Consumption of electricity, water and fuels by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Electricity	Water	Gas	Fuels for machines and vehicles	Lubricants	Other fuels	Total
151	Prod. of meat, fish, fruit, vegetables, oils and fats	113.6	150.6	83.2	1,144.8	1,504.7	1,314.7	4,311.6
152	Manufacture of dairy products	48.5	55.0	33.4	1,508.9	89.1	263.6	1,998.5
153	Manufacture of grain mill products, etc.	964.2	242.6	56.9	10,425.3	1,231.0	379.2	13,299.2
1541	Manufacture of bakery products	35.6	5.9	103.0	540.4	29.1	2.6	716.7
1543	Manufacture of cocoa, chocolate and sugar	119.7	8.7	849.2	446.3	69.6	145.5	1,638.9
1544	Manufacture of farinaceous products	5.2	23.6	13.0	328.4	22.2	0.4	392.8
1549	Manufacture of other products n.e.c.	13.6	2.1	21.4	345.1	21.4	0.0	403.5
1554	Manufacture of soft drinks, mineral waters	68.7	67.1	24.3	7,950.4	326.2	1.8	8,438.5
1600	Manufacture of tobacco products	38.1	29.6	0.0	0.0	0.0	0.0	67.7
171	Spinning, weaving and finishing of textiles	66.6	75.7	24.3	450.6	25.8	3.1	646.0
172	Manufacture of other textiles	20.2	3.0	1.6	96.4	68.4	3.8	193.5
19	Tanning and dressing of leather	16.6	2.9	0.9	185.7	558.3	141.9	906.4
20,21	Manufacture of wood products including paper	6.7	2.9	1.3	185.5	3.3	0.0	199.7
24,29	Man. of chemicals, agricultural machinery	46.8	8.5	14,491.5	727.8	1,736.8	0.7	17,012.1
3610	Manufacture of furniture	17.3	2.6	2.1	91.1	12.8	10.3	136.1
	Agro-industrial sector	1,581.3	680.7	15,706.0	24,426.7	5,698.6	2,267.6	50,361.1

**Table 1.4.3: Consumption of services by industrial activity (ISIC R3)**

ISIC R3	Description	Industrial services			Non-industrial services						Total services
		Contract and commission	Repairs and maintenance	Postage, etc.	Rentals, etc.	Storage, etc.	Publicity, etc.	Consultancy fees	Others		
151	Prod. of meat, fish, fruit, vegetables, oils and fats	57.0	685.0	65.5	431.3	240.4	127.9	49.6	152.7	1,809.4	
152	Manufacture of dairy products	43.7	465.3	23.9	115.0	163.3	21.0	38.0	245.3	1,115.5	
153	Manufacture of grain mill products, etc.	562.7	4,607.3	190.6	350.4	5,860.4	42.2	256.0	721.6	12,591.1	
1541	Manufacture of bakery products	12.6	58.6	19.6	158.5	60.9	18.5	3.0	15.3	347.0	
1543	Manufacture of cocoa, chocolate and sugar	15.9	114.8	48.4	275.8	244.1	20.0	8.9	0.9	728.9	
1544	Manufacture of farinaceous products	0.0	25.3	3.3	30.9	13.0	1.8	0.8	0.7	75.7	
1549	Manufacture of other products n.e.c.	5.3	38.2	15.8	14.7	32.1	17.9	5.3	10.4	139.6	
1554	Manufacture of soft drinks, mineral waters	17.9	1,227.5	229.0	263.8	219.7	284.1	324.6	44.0	2,610.5	
1600	Manufacture of tobacco products	0.0	22.6	3.4	0.2	1.1	1.5	0.8	4.0	33.6	
171	Spinning, weaving and finishing of textiles	3.0	308.0	24.6	5.2	344.1	16.6	3.5	177.4	882.5	
172	Manufacture of other textiles	10.8	34.7	15.7	0.5	0.8	2.7	3.8	388.3	457.3	
19	Tanning and dressing of leather	624.5	350.8	30.1	65.7	1,609.7	51.6	6.9	11.5	2,751.0	
20,21	Manufacture of wood products including paper	4.0	29.1	9.6	24.9	8.0	9.0	8.8	0.0	93.4	
24,29	Man. of chemicals, agricultural machinery	29.1	605.8	22.1	14.8	112.9	109.1	151.9	46.6	1,092.2	
3610	Manufacture of furniture	50.5	59.4	11.8	109.9	84.8	8.1	5.9	40.8	371.3	
	Agro-industrial sector	1,436.9	8,632.4	713.5	1,861.6	8,995.2	732.1	867.7	1,859.4	25,098.8	

**Table 1.5.1: Components of gross output by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Sale of goods produced			Change in stocks*	Industrial services	Non-industrial services	Other	Total gross output
		Exports	Local market	Total					
151	Prod. of meat, fish, fruit, vegetables, oils and fats	19,4462.6	58,981.4	253,444.0	92.9	4,861.9	2,012.7	2.5	260,414.0
152	Manufacture of dairy products	0.0	47,594.5	47,594.5	-8.6	3.4	80.7	0.0	47,670.0
153	Manufacture of grain mill products, etc.	0.0	181,835.2	181,835.2	75.8	30,793.6	12,828.4	9.0	225,541.9
1541	Manufacture of bakery products	0.0	11,799.9	11,799.9	0.0	0.0	-54.6	0.0	11,745.2
1543	Manufacture of cocoa, chocolate and sugar	0.0	18,640.6	18,640.6	-1,444.2	47.5	9.9	0.0	17,253.8
1544	Manufacture of farinaceous products	0.0	5,455.0	5,455.0	13.0	0.0	105.6	0.0	5,573.6
1549	Manufacture of other products n.e.c.	1,998.9	5,525.0	7,523.9	4.7	0.0	-10.0	0.0	7,518.5
1554	Manufacture of soft drinks, mineral waters	0.0	139,685.0	139,685.0	692.2	165.1	10.8	0.0	140,553.1
1600	Manufacture of tobacco products	0.0	1,730.1	1,730.1	9,465.0	238.7	34.0	0.0	11,467.9
171	Spinning, weaving and finishing of textiles	0.0	33,969.1	33,969.1	-1,160.7	8,437.3	27,541.5	7.6	68,794.8
172	Manufacture of other textiles	0.6	14,971.6	14,972.2	18.9	17.5	1,559.8	0.0	16,568.5
19	Tanning and dressing of leather	5,924.1	12,830.4	18,754.4	-235.9	214.9	9,462.5	0.0	28,195.9
20,21	Manufacture of wood products including paper	0.0	2,831.2	2,831.2	23.9	0.0	0.0	0.0	2,855.0
24,29	Man. of chemicals, agricultural machinery	0.0	112,092.5	112,092.5	-1,497.0	1,154.6	76.6	38.1	111,864.9
3610	Manufacture of furniture	0.0	7,562.9	7,562.9	187.4	4.4	534.2	3.9	8,292.8
	Agro-industrial sector	202,386.2	655,504.3	857,890.4	6,227.4	45,938.8	54,192.1	61.1	964,309.9

\* Closing stock minus opening stock



Value in millions of Iraqi dinars

**Table 1.6.1: Change in stock\* by industrial activity (ISIC R3)**

ISIC R3	Description	Materials, supplies and fuels	Work in progress	Finished products	Goods purchased for resale	Total
151	Prod. of meat, fish, fruit, vegetables, oils and fats	-597.1	74.5	18.4	0.0	-504.2
152	Manufacture of dairy products	654.5	-19.8	11.2	0.0	645.9
153	Manufacture of grain mill products, etc.	-14.2	0.0	75.7	0.1	61.5
1541	Manufacture of bakery products	2.5	0.0	0.0	0.0	2.5
1543	Manufacture of cocoa, chocolate and sugar	648.4	0.0	-1,443.9	-0.4	-795.9
1544	Manufacture of farinaceous products	134.0	0.0	5.5	7.5	147.0
1549	Manufacture of other products n.e.c.	23.2	0.0	4.7	0.0	27.9
1554	Manufacture of soft drinks, mineral waters	371.6	-140.9	833.2	0.0	1,063.8
1600	Manufacture of tobacco products	-1,930.5	0.0	9,465.0	0.0	7,534.5
171	Spinning, weaving and finishing of textiles	-4,647.2	-122.7	-946.5	-91.5	-5,807.9
172	Manufacture of other textiles	429.1	-84.8	103.7	0.0	448.1
19	Tanning and dressing of leather	352.5	-132.1	-103.8	0.0	116.7
20,21	Manufacture of wood products including paper	-81.3	0.0	23.9	0.0	-57.4
24,29	Man. of chemicals, agricultural machinery	2,989.3	-2,691.1	1,193.2	1.0	1,492.3
3610	Manufacture of furniture	-64.2	2.0	180.9	4.5	123.2
	Agro-industrial sector	-1,729.4	-3,115.0	9,421.1	-78.7	4,498.0

\* Closing stock minus opening stock

**Table 1.7.1: Value of assets at end of 2007 by type and industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Land	Building	Transport equipment	Machinery & equipment	Other	Total
151	Prod. of meat, fish, fruit, vegetables, oils and fats	2,300.5	18,883.0	2,079.4	8,913.2	2,520.5	34,696.5
152	Manufacture of dairy products	5,674.3	1,773.1	1,114.9	4,434.0	641.6	13,637.9
153	Manufacture of grain mill products, etc.	9,660.9	39,959.5	4,810.0	66,207.1	673.1	121,310.5
1541	Manufacture of bakery products	485.4	558.4	100.0	1,150.9	26.3	2,321.0
1543	Manufacture of cocoa, chocolate and sugar	28,299.8	4,990.9	113.1	3,525.2	80.0	37,009.0
1544	Manufacture of farinaceous products	0.0	0.0	39.2	1,106.3	0.0	1,145.6
1549	Manufacture of other products n.e.c.	498.5	774.1	113.9	836.6	50.9	2,274.0
1554	Manufacture of soft drinks, mineral waters	320.4	15,581.0	3,618.9	108,426.6	1,594.7	129,541.6
1600	Manufacture of tobacco products	35.3	57.7	26.0	1,842.0	75.2	2,036.3
171	Spinning, weaving and finishing of textiles	338.6	1,300.8	348.9	5,751.6	137.8	7,877.8
172	Manufacture of other textiles	9,305.1	928.4	171.7	1,973.2	123.4	12,501.8
19	Tanning and dressing of leather	0.4	945.2	46.5	1,201.1	659.1	2,852.3
20,21	Manufacture of wood products including paper	0.0	13.2	26.4	609.0	2.5	651.2
24,29	Man. of chemicals, agricultural machinery	68.0	4,939.5	1,809.8	6,494.0	1,832.5	15,143.7
3610	Manufacture of furniture	527.5	1,116.1	308.9	1,091.8	66.2	3,110.5
	Agro-industrial sector	57,514.8	91,820.9	14,727.6	213,562.6	8,483.8	386,109.7

Table 1.7.2: Net investment by type and industrial activity (ISIC R3)

ISIC R3	Description	Land		Building		Transport equipment		Machinery & equipment		Other		Total		Net investment
		A*	S**	A	S	A	S	A	S	A	S	A	S	
151	Prod. of meat, fish, fruit, vegetables, oils and fats	0.0	0.0	147.1	6.6	22.6	0.0	2,400.2	83.0	126.4	19.9	2,696.3	109.5	2,586.8
152	Manufacture of dairy products	0.0	0.0	62.4	2.1	0.0	1,393.9	4.7	400.1	262.9	11.0	330.0	1,807.0	-1,477.1
153	Manufacture of grain mill products, etc.	0.0	0.0	7,646.7	0.0	114.9	0.0	16,531.4	18.9	11.9	0.0	24,304.8	18.9	24,285.9
1541	Manufacture of bakery products	0.0	0.0	0.0	0.0	0.0	0.0	70.5	18.1	1.8	0.0	72.3	18.1	54.2
1543	Manufacture of cocoa, chocolate and sugar	0.0	0.0	0.0	0.0	0.0	0.0	259.4	11.3	0.5	0.0	259.9	11.3	248.6
1544	Manufacture of farinaceous products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1549	Manufacture of other products n.e.c.	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	4.8	0.0	4.8
1554	Manufacture of soft drinks, mineral waters	80.2	0.0	3,193.7	0.0	1,217.0	197.1	20,015.9	617.9	483.9	9.8	24,990.6	824.8	24,165.9
1600	Manufacture of tobacco products	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.1	0.0	1.1	0.1	1.0
171	Spinning, weaving and finishing of textiles	0.0	0.0	23.8	3.1	98.0	0.1	850.5	2.8	1.8	0.0	974.0	6.1	967.9
172	Manufacture of other textiles	0.0	0.0	0.0	0.3	10.0	0.0	17.5	0.0	2.4	0.0	29.9	0.3	29.6
19	Tanning and dressing of leather	0.0	0.0	192.1	46.7	0.0	0.0	496.6	0.0	61.0	3.7	749.6	50.5	699.2
20,21	Manufacture of wood products including paper	0.0	0.0	0.0	0.0	0.0	16.4	334.1	0.8	0.0	0.0	334.1	17.3	316.8
24,29	Man. of chemicals, agricultural machinery	3.4	0.0	788.1	0.0	714.7	20.9	234.8	5.5	256.7	9.4	1,997.7	35.8	1,962.0
3610	Manufacture of furniture	0.0	0.0	0.0	0.0	6.0	0.0	13.5	0.0	1.0	0.0	20.5	0.0	20.5
	Agro-industrial sector	83.6	0.0	12,057.8	58.9	2,183.0	1,628.5	41,229.1	1,158.4	1,212.1	53.8	56,765.7	2,899.6	53,866.0

\* Additions

\*\* Sales

**Table 1.8.1: Production account by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Employment	Gross output	Intermediate consumption	Value added	Taxes on production	Employee compensation	Gross operating surplus
151	Prod. of meat, fish, fruit, vegetables, oils and fats	6,697	260,414.0	175,017.1	85,397.0	23.1	8,353.3	77,020.5
152	Manufacture of dairy products	8,940	47,670.0	23,070.0	24,600.0	9.8	16,305.1	8,285.1
153	Manufacture of grain mill products, etc.	7,629	225,541.9	118,962.9	106,579.0	-734.9	25,836.8	81,477.0
1541	Manufacture of bakery products	350	11,745.2	6,358.1	5,387.1	-23.2	1,844.0	3,566.3
1543	Manufacture of cocoa, chocolate and sugar	743	17,253.8	8,402.7	8,851.1	5.7	2,975.3	5,870.1
1544	Manufacture of farinaceous products	120	5,573.6	4,320.8	1,252.8	4.0	251.7	997.1
1549	Manufacture of other products n.e.c.	254	7,518.5	3,825.6	3,692.9	3.4	1,032.4	2,657.2
1554	Manufacture of soft drinks, mineral waters	2,193	140,553.1	99,908.1	40,645.0	-2,106.4	12,318.8	30,432.6
1600	Manufacture of tobacco products	2,756	11,467.9	2,384.2	9,083.8	8.7	8,885.0	190.1
171	Spinning, weaving and finishing of textiles	20,565	68,794.8	11,849.5	56,945.3	0.0	49,989.2	6,956.1
172	Manufacture of other textiles	7,165	16,568.5	1,572.3	14,996.1	0.0	14,482.4	513.8
19	Tanning and dressing of leather	5,035	28,195.9	11,921.6	16,274.3	1.0	15,018.8	1,254.5
20,21	Manufacture of wood products including paper	183	2,855.0	1,348.3	1,506.7	0.0	1,319.2	187.5
24,29	Man. of chemicals, agricultural machinery	9,979	111,864.9	33,151.6	78,713.2	0.4	53,009.9	25,702.8
3610	Manufacture of furniture	638	8,292.8	2,537.0	5,755.8	2.3	2,142.9	3,610.6
	Agro-industrial sector	73,247	964,309.9	504,629.9	459,680.1	-2,806.0	213,764.9	248,721.2



# **Statistical tables**

## **Part II: Small agro-industrial establishments**

**Table 2.0.1: Main indicators by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	No. of estabs.	Number of workers			Gross output		Value added (basic prices)		Employee compensation	
			Total		Employees	Value	%	Value	%	Value	%
			Number	%							
151	Production of meat, fish, fruit, vegetables, oils and fats	185	1,066	3.0	793	25,956.8	3.1	8,721.9	2.5	2,972.1	3.0
152	Manufacture of dairy products	88	476	1.3	256	6,343.2	0.8	3,054.8	0.9	607.9	0.6
153	Manufacture of grain mill products, etc.	881	2,811	8.0	1,586	48,469.2	5.9	17,304.1	5.0	3,951.6	3.6
154/155	Manufacture of other food products & beverages	4,899	22,970	65.1	16,970	619,399.6	75.0	264,055.4	76.2	80,462.8	80.0
17	Manufacture of textiles	767	1,841	5.2	837	23,426.9	2.8	8,628.3	2.5	2,278.0	2.3
19,20	Tanning & dressing of leather; man. of wood products	115	529	1.5	432	25,521.9	3.1	7,141.0	2.1	1,944.6	1.9
3610	Manufacture of furniture	2,053	5,604	15.9	2,775	76,357.2	9.3	37,598.7	10.9	8,351.9	8.3
	Agro-industrial sector	8,987	35,296	100.0	23,648	825,474.7	100.0	346,504.3	100.0	100,569.0	100.0

**Table 2.0.2: Operation ratios by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Number of establishments	Gross output (GO) per		Value added (basic prices) as % of GO	Value added (basic prices) per		Employee compensation	
			Establishment	Worker		Establishment	Worker	Establishment	Worker
151	Production of meat, fish, fruit, vegetables, oils and fats	185	140,287	24,347	33.6	47,139	8,181	3,748	34.1
152	Manufacture of dairy products	88	71,994	13,332	48.2	34,671	6,421	2,379	19.9
153	Manufacture of grain mill products, etc.	881	55,011	17,245	35.7	19,640	6,157	2,492	22.8
154/155	Manufacture of other food products & beverages	4,899	126,439	26,966	42.6	53,902	11,496	4,742	30.5
17	Manufacture of textiles	766	30,562	12,722	36.8	11,256	466	2,722	26.4
19,20	Tanning & dressing of leather; man. of wood products	115	222,820	48,278	28.0	62,345	13,508	4,504	27.2
3610	Manufacture of furniture	2,053	37,195	13,626	49.2	18,315	6,710	3,009	22.2
	Agro-industrial Sector	8,987	91,852	23,387	42.0	38,556	9,817	4,253	29.0



**Table 2.1.1: Number of establishments by industrial activity (ISIC R3) and form of ownership**

ISIC R3	Description	Form of ownership				Total
		Public	Mixed	Cooperative	Private	
151	Production of meat, fish, fruit, vegetables, oils and fats	0	0	0	185	185
152	Manufacture of dairy products	0	0	0	88	88
153	Manufacture of grain mill products, etc.	0	9	0	872	881
154/155	Manufacture of other food products & beverages	9	0	9	4,881	4,899
17	Manufacture of textiles	0	0	0	766	766
19,20	Tanning & dressing of leather; manufacture of wood products	0	0	0	115	115
3610	Manufacture of furniture	0	0	0	2,053	2,053
	Agro-industrial sector	9	9	9	8,960	8,987

**Table 2.1.2: Number of establishments by industrial activity (ISIC R3) and employment size**

ISIC R3	Description	Employment size		Total
		Less than 5	6 to 9	
151	Production of meat, fish, fruit, vegetables, oils and fats	53	132	185
152	Manufacture of dairy products	18	70	88
153	Manufacture of grain mill products, etc.	740	141	881
154/155	Manufacture of other food products & beverages	2,599	2,300	4,899
17	Manufacture of textiles	696	70	766
19,20	Tanning & dressing of leather; manufacture of wood products	62	53	115
3610	Manufacture of furniture	1,850	203	2,053
	Agro-industrial sector	6,018	2,969	8,987

**Table 2.1.3: Number of establishments by industrial activity (ISIC R3) and legal type of organization**

ISIC R3	Description	Legal type of organization						Total
		Individual proprietorship	Individual project company	Share-holding company	Limited company	Partnership	Other	
151	Production of meat, fish, fruit, vegetables, oils and fats	17	1	0	0	2	1	21
152	Manufacture of dairy products	9	0	0	1	0	0	10
153	Manufacture of grain mill products, etc.	84	1	1	0	0	14	100
154/155	Manufacture of other food products & beverages	528	3	6	0	12	7	556
17	Manufacture of textiles	84	0	1	1	0	1	87
19,20	Tanning & dressing of leather; man. of wood products	10	1	0	0	0	2	13
3610	Manufacture of furniture	229	1	1	0	0	2	233
	Agro-industrial sector	961	7	9	2	14	27	1,020

**Table 2.2.1: Employment by industrial activity (ISIC R3) and form of ownership**

ISIC R3	Description	Form of ownership				Total
		Public	Mixed	Cooperative	Private	
151	Production of meat, fish, fruit, vegetables, oils and fats	0	0	0	1,066	1,066
152	Manufacture of dairy products	0	0	0	476	476
153	Manufacture of grain mill products, etc.	0	44	0	2,766	2,810
154/155	Manufacture of other food products & beverages	18	0	26	22,926	22,970
17	Manufacture of textiles	0	0	0	1,841	1,841
19,20	Tanning & dressing of leather; manufacture of wood products	0	0	0	529	529
3610	Manufacture of furniture	0	0	0	5,604	5,604
	Agro-industrial sector	18	44	26	35,208	35,296

**Table 2.2.2: Employment by industrial activity (ISIC R3) and employment size**

ISIC R3	Description	Employment size		Total
		Less than 5	6 to 9	
151	Production of meat, fish, fruit, vegetables, oils and fats	176	890	1,066
152	Manufacture of dairy products	53	423	476
153	Manufacture of grain mill products, etc.	2,026	784	2,810
154/155	Manufacture of other food products & beverages	8,785	14,185	22,970
17	Manufacture of textiles	1,339	502	1,841
19,20	Tanning & dressing of leather; manufacture of wood products	159	370	529
3610	Manufacture of furniture	4,388	1,216	5,604
	Agro-industrial sector	16,926	18,370	35,296

**Table 2.2.3: Employment by industrial activity (ISIC R3) and legal type of organization**

ISIC R3	Description	Legal type of organization						Total
		Individual proprietorship	Individual project company	Share-holding company	Limited company	Partnership	Other	
151	Production of meat, fish, fruit, vegetables, oils and fats	855	53	0	0	97	61	1,066
152	Manufacture of dairy products	405	0	0	70	0	1	476
153	Manufacture of grain mill products, etc.	2,388	26	18	0	0	379	2,811
154/155	Manufacture of other food products & beverages	21,789	142	308	0	564	167	22,970
17	Manufacture of textiles	1,674	0	35	62	0	70	1,841
19,20	Tanning & dressing of leather; manufacture of wood products	326	70	0	0	0	132	529
3610	Manufacture of furniture	5,507	9	44	0	0	44	5,604
	Agro-industrial sector	32,944	300	405	132	661	854	35,296

**Table 2.2.4: Number of workers by industrial activity (ISIC R3), employment status and sex**

ISIC R3	Description	Unpaid workers*		Employees								Grand total		
		Male	Female	Managerial & professional staff		Operatives, skilled		Operatives, unskilled		Others		Male	Female	Total
				M	F	M	F	M	F	M	F			
151	Production of meat, fish, fruit, vegetables, oils and fats	211	62	62	9	247	88	300	70	9	9	828	238	1,066
152	Manufacture of dairy products	203	18	0	0	106	0	97	35	18	0	423	53	476
153	Manufacture of grain mill products, etc.	1,216	9	53	0	1,040	0	493	0	0	0	2,802	9	2,811
154/155	Manufacture of other food products & beverages	5,921	79	687	0	9,489	97	6,264	28	150	0	22,512	458	22,970
17	Manufacture of textiles	1,004	0	62	0	652	0	123	2	0	0	1,841	0	1,841
19,20	Tanning & dressing of leather; man. of wood products	97	0	79	18	203	18	70	0	0	0	449	79	529
3610	Manufacture of furniture	2,828	0	35	0	1,938	0	775	44	26	0	5,604	0	5,604
	Agro-industrial sector	11,480	167	978	26	13,674	203	8,124	432	203	9	34,459	837	35,296

\* Working owners, partners, unpaid family members

**Table 2.2.5: Evolution in employment by industrial activity (ISIC R3)**

ISIC R3	Description	Employment, 30th June 2007			Employment, 31st December 2007		
		Male	Female	Total	Male	Female	Total
151	Production of meat, fish, fruit, vegetables, oils and fats	705	229	934	828	238	1,066
152	Manufacture of dairy products	396	35	432	423	53	476
153	Manufacture of grain mill products, etc.	2,661	9	2,670	2,802	9	2,811
154/155	Manufacture of other food products & beverages	21,974	414	22,388	22,512	458	22,970
17	Manufacture of textiles	1,762	0	1,762	1,841	0	1,841
19,20	Tanning & dressing of leather; manufacture of wood products	467	79	546	449	79	529
3610	Manufacture of furniture	5,383	0	5,383	5,604	0	5,604
	Agro-industrial sector	33,349	34,115	34,115	34,459	837	35,296

**Table 2.3.1: Detailed compensation of employment by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Gross wages and salaries	Overtime payments	Travel expenses	Payments in kind	Social security scheme	Other	Total compensation
151	Production of meat, fish, fruit, vegetables, oils and fats	2,416.5	62.3	0.0	435.6	55.0	2.6	2,972.1
152	Manufacture of dairy products	477.9	0.0	2.6	48.1	0.0	79.3	607.9
153	Manufacture of grain mill products, etc.	3,715.0	0.0	8.8	185.0	9.7	33.0	3,951.6
154/155	Manufacture of other food products & beverages	73,832.9	231.5	52.4	5,621.9	673.3	50.9	80,462.8
17	Manufacture of textiles	2,094.0	0.0	0.0	146.4	24.0	13.7	2,278.0
19,20	Tanning & dressing of leather; man. of wood products	1,841.2	0.0	0.0	90.7	12.8	0.0	1,944.6
3610	Manufacture of furniture	7,706.1	92.7	0.0	474.3	63.3	15.6	8,351.9
	Agro-industrial sector	92,083.6	386.5	63.9	7,001.9	838.0	195.0	100,569.0

**Table 2.4.1: Detailed intermediate consumption by industrial activity (ISIC R3)**

ISIC R3	Description	Raw materials & supplies		Electricity, water & fuels	Industrial services	Non-industrial services	Other expenses	Change in stock*	Intermediate consumption
		Imported	Local						
151	Production of meat, fish, fruit, vegetables, oils and fats	11,419.6	2,287.4	1,174.1	46.7	2,306.4	0.0	-0.7	17,234.8
152	Manufacture of dairy products	1,192.5	780.4	1,050.2	74.5	156.1	0.0	-34.8	3,288.4
153	Manufacture of grain mill products, etc.	16,951.5	8,695.3	2,477.0	1,471.5	1,569.1	6.2	5.4	31,165.1
154/155	Manufacture of other food products & beverages	226,699.7	46,639.6	59,518.4	3,982.3	17,325.3	44.1	-1,134.8	355,344.2
17	Manufacture of textiles	6,929.4	4,915.5	1,178.4	588.2	1,191.5	0.0	4.5	14,798.6
19,20	Tanning & dressing of leather; man. of wood products	1,107.6	13,524.8	920.5	794.5	2,033.5	0.0	0.0	18,380.9
3610	Manufacture of furniture	27,993.0	4,026.1	2,262.8	792.0	3,712.7	0.0	28.1	38,758.5
	Agro-industrial sector	292,293.3	80,869.1	68,581.4	7,749.6	28,294.5	50.2	-1,132.3	478,970.5

\* Closing stock minus opening stock

**Table 2.4.2: Consumption of electricity, water and fuels by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Electricity	Water	Gas	Fuels for machines and vehicles	Lubricants	Other fuels	Total
151	Production of meat, fish, fruit, vegetables, oils and fats	296.0	58.5	659.2	134.3	15.3	10.8	1,174.1
152	Manufacture of dairy products	16.3	10.0	114.7	843.4	65.8	0.0	1,050.2
153	Manufacture of grain mill products, etc.	265.1	43.9	14.1	1,902.1	251.2	0.7	2,477.0
154/155	Manufacture of other food products & beverages	2,847.6	687.3	4,481.3	40,549.1	1,541.3	9,411.8	59,518.4
17	Manufacture of textiles	74.6	7.5	56.3	969.1	38.3	32.5	1,178.4
19,20	Tanning & dressing of leather; man. of wood products	12.1	9.9	3.6	678.9	163.7	52.2	920.5
3610	Manufacture of furniture	238.1	50.7	4.5	1,742.4	178.8	48.3	2,262.8
	Agro-industrial sector	3,749.8	867.8	5,333.8	46,819.4	2,254.4	9,556.4	68,581.4

**Table 2.4.3: Consumption of services by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Industrial services			Non-industrial services						Total services
		Contract & commission	Repairs and maintenance	Postage, etc.	Rentals, etc.	Storage, etc.	Publicity, etc.	Consultancy fees	Other		
151	Production of meat, fish, fruit, vegetables, oils and fats	8.8	37.8	54.6	1,796.1	199.9	64.3	10.8	180.7	2,353.0	
152	Manufacture of dairy products	0.0	74.5	18.3	93.8	26.3	2.2	4.4	11.0	230.5	
153	Manufacture of grain mill products, etc.	428.9	1,042.6	104.9	904.6	242.3	0.4	9.3	307.5	3,040.5	
154/155	Manufacture of other food products & beverages	611.0	3,371.3	940.0	12,855.0	2,754.0	274.8	94.2	407.2	21,307.6	
17	Manufacture of textiles	452.0	136.2	52.9	832.6	174.9	0.0	6.6	124.4	1,779.7	
19,20	Tanning & dressing of leather; man. of wood products	19.8	774.7	31.2	1,075.6	871.6	17.6	26.4	11.1	2,828.1	
3610	Manufacture of furniture	280.3	511.7	256.0	3,095.5	244.2	0.9	42.6	73.5	4,504.7	
	Agro-industrial sector	1,800.8	5,948.8	1,457.9	20,653.2	4,513.3	360.2	194.4	1,115.4	36,044.1	



**Table 2.5.1: Components of gross output by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Sale of goods produced			Change in stock*	Industrial services	Non-industrial services	Others	Total
		Exports	Local market	Total					
151	Production of meat, fish, fruit, vegetables, oils and fats	536.6	24,871.1	25,407.7	66.4	431.1	51.5	0.0	25,956.8
152	Manufacture of dairy products	424.0	5,722.9	6,147.0	41.4	0.0	154.8	0.0	6,343.2
153	Manufacture of grain mill products, etc.	0.0	38,749.6	38,749.6	0.0	8,729.2	990.3	0.0	48,469.2
154/155	Manufacture of other food products & beverages	3,178.9	578,011.9	581,190.8	215.7	37,194.2	798.9	0.0	619,339.6
17	Manufacture of textiles	475.8	20,169.2	20,645.0	0.6	1,885.5	895.7	0.0	23,426.9
19,20	Tanning & dressing of leather; man. of wood products	22,718.6	2,288.0	25,006.6	0.0	405.1	110.1	0.0	25,521.9
3610	Manufacture of furniture	0.0	69,197.0	69,197.0	-23.0	6,848.1	244.9	90.3	76,357.2
	Agro-industrial sector	27,333.9	739,009.8	766,343.7	301.2	55,493.2	32,46.4	90.3	825,474.7

\* Closing stock minus opening stock

**Table 2.6.1: Production account by industrial activity (ISIC R3)**

Value in millions of Iraqi dinars

ISIC R3	Description	Number of employees	Gross output	Intermediate consumption	Value added (basic prices)	Taxes on production	Employee compensation	Gross operating surplus
151	Production of meat, fish, fruit, vegetables, oils and fats	793	25,956.8	17,234.8	8,721.9	2.9	2,972.1	5,746.9
152	Manufacture of dairy products	256	6,343.2	3,288.4	3,054.8	0.2	607.9	2,446.7
153	Manufacture of grain mill products, etc.	1,586	48,469.2	31,165.1	17,304.1	-15.9	3,951.6	13,368.4
154/155	Manufacture of other food products & beverages	16,970	619,339.6	355,344.2	264,055.4	-325.4	80,462.8	183,918.0
17	Manufacture of textiles	837	23,426.9	14,798.6	8,628.3	0.0	2,278.0	6,350.3
19,20	Tanning & dressing of leather; man. of wood products	432	25,521.9	18,380.9	7,141.0	31.1	1,944.6	5,165.2
3610	Manufacture of furniture	2,775	76,357.2	38,758.5	37,598.7	2.6	8,351.9	29,244.1
	Agro-industrial sector	23,648	825,474.7	478,970.5	346,504.3	-304.5	100,569.0	246,239.8

# Appendices

## **Appendix A: Questionnaire for main survey**

CENSUS OF AGRO-INDUSTRIAL PRODUCTION, 2007

**REPUBLIC OF IRAQ**  
**MINISTRY OF PLANNING AND DEVELOPMENT COOPERATION**

Central Organization for Statistics and Information Technology  
Baghdad

For office use only 

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**PART I: DESCRIPTION OF ESTABLISHMENT**

**1.1 Name of establishment**..... (in Arabic)  
**Name of establishment**..... (in Latin)

**1.2 Location** Urban  Rural

**1.2.1 Mailing Address**  
.....  
.....

**1.2.2 Physical location of establishments**

--	--	--	--	--

  
Governorate..... District.....  
Qadha..... Street.....  
Nahia..... Building No.....

**1.2.3 Does the establishment operate in an industrial estate?** Yes 1 No 2

**1.3 Tel**..... **1.4 Website**..... **1.5 Fax**..... **1.6 E-mail**.....  
**1.7 Name of contact person**.....  
**Designation**..... **Tel (office/mobile)**.....

**1.8 Economic organization of this establishment**  
Please tick box and enter information as appropriate

- 1.  Single establishment
- 2.  Head office – owns or controls other establishments
- 3.  This establishment is owned and controlled by another establishment

If box 3 is marked, please provide name and address of head office  
Name..... Address.....  
.....

**1.9 Origin of ownership** (please encircle as appropriate)  
National 1  
Foreign 2  
Joint 3 please indicate % local

**1.10 Form of ownership** (please encircle as appropriate)  
Public 1  
Private 2  
Mixed 3  
Cooperative 4

**1.11 Type of legal organization** (please encircle as appropriate)  
Limited company Unlimited company  
Limited liabilities 1 Individual proprietorship 3  
Shareholding company 2 Individual project company 4  
Partnership 5

**1.12 Activity of establishment**  
Principal activity :.....  
.....ISIC R3 

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Other activity :.....  
.....ISICR3 

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**1.13 Date started operation**..... 

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## PART II

### 2. EMPLOYMENT

#### 2.1 Number of persons engaged

Employment as of	Iraqi		Non-Iraqi		Total	
	Male	Female	Male	Female	Male	Female
30th June 2007	*	*	*	*	*	*
31st December 2007	*	*	*	*	*	*

#### 2.2 Number of workers as of 31 December 2007 by category

Category	Iraqi		Non-Iraqi		Total	
	Male	Female	Male	Female	Male	Female
2.21 Working proprietor and partners	*	*	*	*	*	*
2.22 Unpaid workers	*	*	*	*	*	*
2.23 Employees: (a) Managerial and professional staff	*	*	*	*	*	*
2.24 (b) Operatives, skilled	*	*	*	*	*	*
2.25 (c) Operatives, unskilled	*	*	*	*	*	*
2.26 (d) Others	*	*	*	*	*	*
<b>Total</b>	*	*	*	*	*	*

#### 2.3 Number of shifts per day..... 2.4 Total numbers of hours worked per week for all shifts.....

### 3. LABOUR COSTS

Description	Amount paid (000's dinars)
3.01 Gross wages and salaries (including bonus and gratuities)	
3.02 Overtime payments	
3.03 Reimbursements of travel expenses	
3.04 Payments in kind, e.g., food, drinks, fuel	
3.05 Employer's contribution to social security schemes	
3.06 Training expenses	
3.07 Other labour costs (please specify)	
<b>Total</b>	*

### 4. PURCHASES

#### 4.1 Electricity, water and fuel consumed

Description	Unit	Quantity	Value (000's dinars)
4.11 Electricity	kwh		*
4.12 Water	m <sup>3</sup>		*
4.13 Gas			*
4.14 Fuel for machines and vehicles			*
4.15 Lubricants			*
4.16 Other fuels (please specify)			*
<b>Total</b>			*

## 4.2 Goods purchased

4.21 Purchase of goods to be sold in the same condition (000's dinars).....

4.22 Raw materials and supplies purchased for transformation.....

Value in 000's dinars

Code	Description of main products	Unit	Imported		Local	
			Quantity	Value	Quantity	Value
	Packing materials					
	Other (including stationery and spare parts)					
	<b>Total</b>			*		*

## 4.3 Services consumed

### 4.31 Industrial services

Description	Amount (000's dinars)
4.311 Contract and commission paid for work done on your materials	
4.312 Cost of repairs and maintenance work	
<b>Total</b>	*

### 4.32 Non-industrial services

Description	Amount (000's dinars)
4.321 Postage and other communications costs	
4.322 Rental of building, machinery, plant and equipment	
4.323 Storage and hire of transport	
4.324 Publicity and bank charges	
4.325 Consultancy fees (legal, fiscal, accountancy, etc.)	
4.326 Other (please specify)	
<b>Total</b>	*

## 4.4 Other disbursements

Description	Amount (000's dinars)
4.41 Interest and dividends paid excluding bank charges	
4.42 Insurance paid	
4.43 Income tax	
4.44 Taxes on products (e.g. excise duties)	
4.45 Other taxes on production, e.g., rates, licenses, road tax	
4.46 Other (please specify)	
<b>Total</b>	*

## 5 OUTPUT

### 5.1 Sales from own production

Code	Description of main products	Unit	Exported		Locally sold	
			Quantity	Value	Quantity	Value
	Other					
	<b>Total</b>			*		*

5.11 Main destinations of exports (maximum 3 countries).....

5.12 Marketing of final products: Direct selling.....% Intermediaries.....% Exports.....%

5.2 Value of fixed assets produced for own use (000's dinars).....

### 5.3 Receipts from services rendered

#### 5.3 Industrial services

Description	Amount (000's dinars)
5.311 Receipts from contract work done for others on their materials	
5.312 Receipts from repair and installation work done for others	
5.313 Other (please specify)	
<b>Total</b>	*

#### 5.32 Non-industrial services

Description	Amount (000's Dinars)
5.321 Rent received	
5.322 Receipts from transport services rendered to others	
5.323 Value of products sold in the same condition as purchased	
5.324 Receipts from warehousing services	
5.325 Other (please specify)	
<b>Total</b>	*

#### 5.33 Other receipts

Description	Amount (000's dinars)
5.331 Interest and dividends received	
5.332 Insurance premiums received	
5.333 Subsidies received	
5.334 Other (please specify)	
<b>Total</b>	*

## 6. VALUE OF STOCKS

Description	Value in 000's dinars	
	Opening balance	Closing balance
6.1 Materials, supplies and fuels (raw materials, chemicals, etc.)	*	*
6.2 Work in progress (semi-finished products)		
6.3 Finished products	*	*
6.4 Goods purchased for resale		
<b>Total</b>	*	*

## 7. VALUE OF FIXED ASSETS

Type	Account code	Value in 000's Dinars				Value at end
		Value at beginning	Additions	Sales	Depreciation	
7.1 Land	111					
7.2 Buildings and other construction works	112					
7.3 Transport equipment	113					
7.4 Machinery and other equipment	114					
7.5 Others	115 to 118					
<b>Total</b>		*	*	*	*	*

## PART III: MISCELLANEOUS (please encircle as appropriate)

### 8.1 Membership

8.11 Is the establishment a member of any association? Yes 1 No 2

8.111 If yes, please indicate whether

Iraq Federation of Industries	1
Chambers of Commerce	2
Governorate associations	3
Other (please specify)	4

### 8.2 Quality management

8.21 Are your products certified?

	Yes	No
Food safety regulations	1	2
ISO	1	2
Central Bureau of Standards	1	2

8.22 Is quality of raw materials purchased also controlled? Yes 1 No 2

8.23 Does the establishment have a laboratory? Yes 1 No 2

8.24 Total number of QC staff.....



**8.3 Does the establishment have a license?** Yes 1 No 2

**8.31 If yes,**

**8.311 License number..... 8.312 Date:.....**

**8.313 Allocating authority**

Ministry of Industry 1  
 Ministry of Commerce 2  
 Other authority 3

**8.32 If no, why?**

Finance 1  
 Complicated bureaucratic procedures 2  
 Too small business 3  
 Do not feel the need 4

**8.4 Working capital (000's dinars).....**

**8.5 Source of finance**

**Amount (000's dinars)**

Personal and relatives .....  
 Loans from banks and bank credit institutions .....  
 Other (specify) .....

**8.6 Tenure of building occupied for own business**

Wholly owned 1  
 Wholly rented 2  
 Partly rented 3

**8.7 Total area occupied for own business**

Floor ..... m<sup>2</sup>  
 Land ..... m<sup>2</sup>

**8.8 Utilization of production capacity (%).....**

**8.9 Water source and environment & technology**

**8.91 Source of water**

Public network 1  
 River 2  
 Underground water 3  
 Other (specify) 4

**8.92 Environmental management & technology**

**8.921 Are there any environment regulations?** Yes 1 No 2

**8.922 Does the establishment have treatment facilities for waste?**

Yes 1 No 2 No need 3 (please encircle as appropriate)

**8.923 If yes, method of treatment**

Type of waste	Method of treatment*	Code	% treated
Water			
Gas			
Solid			

\* Please indicate whether recycling (code 1), incineration (2), composting (3), or other (4)

**8.924 Current technology status**

Type of machines	Percentage (%)	Average age	Expected average lifespan of equipment
Manual			
Semi-automatic			
Computerized			

**8.925 Does the establishment have any investment plans?** Yes 1 No 2

**If yes, please indicate whether for**

Replacement of old equipment 1  
 Increasing production capacity 2  
 Upgrading technology 3

**8.926 Does the establishment invest in other business?** Yes 1 No 2

**9.927 Does the establishment have**

E-mail facilities? Yes 1 No 2  
 Website? Yes 1 No 2  
 Local Area Network (LAN)? Yes 1 No 2  
 Wide Area Network (WAN)? Yes 1 No 2

**9. Problems encountered during reference period**

(please encircle as appropriate)

Insufficient demand	1	Long and complicated bureaucratic procedures	11
Shortage of raw materials	2	High cost of production	12
Security	3	Financial problems/foreign currency	13
Insufficient production capacity	4	Illegal imports	14
Shortage of management skills	5	Inadequate supply of water	15
Shortage of skilled operatives	6	Inadequate telecommunications and IT	16
Lack of equipment	7	Insufficient storage of water	17
Transport problems	8	Insufficient storage capacity	18
Quality of raw materials	9	Insufficient availability of inputs like fuels, lubricants, etc.	19
Spare parts & after-sale service	10	Punitive regime of income taxation	20

**Other problems related to exports, if applicable**

Domestic supply is insufficient	21
Foreign demand is insufficient	22
Low selling prices	23
Lack of information on foreign markets	24
Competition among Iraqi exporters	25
Competition among Middle East exporters	26
Competition with Chinese exporters	27
Competition among other exporters	28
Uncertain economic environment	29
Unclear or restrictive economic laws	30
Other (please specify)	

**FOR OFFICE ONLY**

Name of person to be contacted in case of queries.....  
 Tel..... Number of visits made..... Data completed.....  
 Name of enumerator.....  
 Name of supervisor:.....

**Main statistics (for editing purposes)**

**Value in millions of dinars**

<b>A. NO. OF EMPLOYEES</b>	(total 2.2 - total 2.21 - total 2.22)	<input style="width: 80px; height: 20px;" type="text"/>
<b>B. GROSS OUTPUT (GO)</b>		<input style="width: 80px; height: 20px;" type="text"/>
Value of goods produced	(total 5.1+ 5.2 + 6.2 (close. - open.) + 6.3 (close. - open.)	.....
Receipts from services rendered		
Industrial services	(total 5.31)	.....
Non-industrial services	(total 5.32) - 4.21 + 6.4 (close. - open.)	
<b>C. INTERMEDIATE CONSUMPTION</b>		<input style="width: 80px; height: 20px;" type="text"/>
Electricity, water and fuels consumed	(total 4.1)	.....
Raw materials and supplies consumed	(total 4.22 - 6.1 (close. - open.)	.....
Services consumed		
Industrial services	(total 4.31)	.....
Non-industrial services	(total 4.32 + 3.06)	.....
<b>D. VALUE ADDED (VA)</b>	(B - C)	<input style="width: 80px; height: 20px;" type="text"/>
Please check VA/GO (%)	(D/ B)*100	.....
<b>E. COMPENSATION OF EMPLOYEES (CE)</b>	(total 3 - 3.06)	<input style="width: 80px; height: 20px;" type="text"/>
Please check (a) CE/VA (%)	(E/D)*100	.....
(b) CE per employee per month	E/ (A*12) 000's dinars	.....
<b>F. OTHER TAXES ON PRODUCTION</b>	4.45	<input style="width: 80px; height: 20px;" type="text"/>
<b>G. GROSS OPERATING SURPLUS</b>	(D - E - F)	<input style="width: 80px; height: 20px;" type="text"/>

Edited and checked by:.....

Checked by:.....

Date:.....

Input by:.....

Date:.....

# Appendix B: Instructions for filling in the questionnaire

## 1.1 Name of establishment

Definition of an establishment:

An establishment is defined as an economic unit that engages, under a single legal entity, in one, or predominantly one, kind of activity at a single physical location – for example, a mine, factory or workshop.

Please provide the name in both Arabic and Latin.

## 1.2 Location

Please indicate whether the establishment is situated in an urban or rural area.

### 1.2.1 Mailing address

This corresponds to the address used for sending correspondence to the establishment.

### 1.2.2 Physical location of establishment

This information is essential for the geographical tabulation of activities. Please make sure that the answer to this item relates to the actual physical location (i.e. the site of the plant) which may be different from the mailing address given at 1.2.1

### 1.2.3 Does the establishment operate in an industrial estate?

Please circle as appropriate

## 1.3 Telephone number

## 1.4 Website

## 1.5 Fax number

## 1.6 E-mail

## 1.7 Name of contact person, designation and telephone number

## 1.8 Economic organization of this establishment

Please tick as appropriate.

A single establishment is an establishment as defined at 1.1 which does not own or control any other unit and is not controlled by any other unit (head office).

Head office is a unit which owns or controls other establishments (branches).

Tick box 3 if the establishment (branch) is owned and controlled by another unit which acts as its head office. The name and address of the head office should be provided in this case.

## 1.9 Origin of ownership

National: if establishment is owned wholly by Iraqis.

Foreign: if establishment is owned wholly by non-Iraqis.

Joint: if establishment is jointly owned by Iraqis and non-Iraqis. Please indicate also the percentage of the capital owned by Iraqis.

## 1.10 Form of ownership

Please indicate whether public (i.e. an establishment owned by the Government), private (i.e. an establishment owned by private individuals), mixed or cooperative (i.e. profit-making establishment whose profits are shared among its owners).

## 1.11 Type of legal organization (COSIT to provide/confirm definitions)

**Limited liabilities company** is a private business entity where the shares are held privately and with limited liabilities.

**Shareholding company**

**Individual proprietorship** is an establishment owned by an individual.

## **Individual project company**

**Partnership** is an establishment where two or more individuals put their capital together to set up a business and shares the profits.

### **1.12 Activity of establishment**

The economic activity of an establishment is the final products it provides or the services it renders; e.g., a copper mine produces copper ore. An engineering company that manufactures pumps and machinery for agricultural use performs an activity which is the manufacture of agricultural machinery. A grocery store provides a service, that of retailing.

This census covers only those establishments operating in the agro-industrial sector.

Please give details of the principal as well as other, secondary activities of the establishment including the names of the main products manufactured.

### **1.13 Date started operation**

Provide at least the year when operation started, if the exact date is not known.

### **1.14 Period which data required in this questionnaire refer to**

Data to be reported in this questionnaire should, as far as possible, relate to the period which covers most of the year 2007. If information is not yet available for that period, give available data covering the latest accounting period.

## **2 EMPLOYMENT**

### **2.1 Number of persons engaged**

This is the total number of persons who work in or for the establishment. It includes working proprietors and partners, unpaid workers, managerial and professional staff, operatives and other employees. Please provide figures separately for residents and non-residents as of 30<sup>th</sup> June 2007 and 31<sup>st</sup> December 2007.

### **2.2 Number of persons engaged as of 31st December 2007 by category**

**2.21 Working proprietors and partners** are all individual proprietors and partners who are actively engaged in the work of the establishment without pay.

**2.22 Unpaid workers** include members of the household of any of the proprietors as well as other workers who work in the establishment without regular pay for at least one third of the normal working time of the establishment.

### **Employees**

Employees are persons who work in or for the establishment and receive pay, in cash or in kind.

### **2.23 Managerial and professional staff**

This category includes administrative, technical and clerical personnel such as salaried managers and directors, clerks, typists and the like.

### **2.24 & 2.25 Operatives, skilled and unskilled**

Operatives are persons who are directly engaged in the production or related activities of the establishment and who receive pay, in cash or in kind, at regular intervals. Examples are persons engaged in fabricating, processing or assembling, fitters, packers, repairmen, record-keeping personnel and inspectors. Please differentiate between skilled (those who have received formal training) and unskilled operatives (those who have not received any formal training).

### **2.26 Other employees**

These are persons who do not fall in the categories above, such as gardeners and salesmen.

### **2.3 Total number of working hours per week**

Please give the number of hours that the establishment is in operation per week.

### **3. LABOUR COSTS**

#### **3.01 Gross wages and salaries**

This category covers all payments, including bonuses and gratuities, rations, housing allowances and educational expenses, made in cash to employees before deduction of taxes and contribution to pension and life insurance schemes.

#### **3.02 Overtime payments**

#### **3.03 Reimbursement of travel expenses**

#### **3.04 Payment in kind**

Payment in kind is the net cost to the employer for providing to the employee food, drinks, car facilities, fuel allowance, and other goods and services free of charge or at reduced prices.

#### **3.05 Employer's contribution to social security schemes**

This category covers payments made by the employer on behalf of his employees, e.g., contribution to social security schemes, medical and life insurance schemes, etc.

#### **3.06 Training expenses**

These include the employer's cost for providing training.

#### **3.07 Other labour costs**

These include the employer's cost for providing uniforms and welfare services (e.g., canteen).

### **4. PURCHASES MADE DURING REFERENCE PERIOD**

#### **4.1 Electricity, water and fuels consumed**

#### **4.2 Goods purchased**

##### **4.21 Purchase of goods to be sold in the same condition**

This item covers goods sold in the same condition as purchased, i.e. without further processing or transformation. Please note that the sale value of these products is to be reported at 5.323.

##### **4.22 Materials and supplies purchased**

Included in this category are raw materials and other consumables including spare parts and components for repair and maintenance of machinery and equipment provided that their working life is less than 1 year. List the main materials used. All other materials are to be lumped together in the other category. Units of quantity are to be specified clearly. Please note that the valuation of products should be at delivered cost to the establishment inclusive of transport costs, excise duties and other indirect taxes but net of rebates and discounts received. Value of imported materials and supplies should include landing charges, customs and import duties, stamp duties, surcharges, etc.

Purchases with respect to major capital repairs, construction of new fixed assets, or additions and improvements to existing ones **should be excluded; they should however be reported as acquisition of fixed assets (section 7)**.

#### **4.3 Services consumed**

##### **4.31 Industrial services**

##### **4.311 Contract and commission paid for work done on your materials**

This item covers payments made for work done by others on materials owned by the reporting establishment during the accounting period. Payments to home workers should be included. Home workers are persons who work in their own home on materials provided by the establishment.

#### **4.312 Cost of repairs and maintenance work**

This category covers current minor repairs and maintenance work done by others on buildings and other fixed assets of the establishment (machinery, plant and other equipment including motor vehicles). **Major additions, alterations and improvements to existing assets, which significantly extend their expected lifetime, should not be included.**

#### **4.32 Non-industrial services**

##### **4.321 Postage and other communication costs**

Costs such as postage, telephone, Internet and telegraph charges.

##### **4.322 Rental of buildings, machinery, plant and equipment**

##### **4.323 Storage and hire of transport**

Amounts paid for storage or warehousing and hire of transport.

##### **4.324 Publicity and bank charges**

##### **4.325 Consultancy fees**

Cost of business services such as advertising, legal, accountancy, marketing, bookkeeping and other professional services, including computing services.

##### **4.326 Other**

Include other expenses such as expenses borne in connection with the treatment of waste generated by the establishment; e.g., cost of recycling, incineration, etc.

#### **4.4 Other disbursements**

##### **4.41 Interest and dividends paid excluding bank charges**

##### **4.42 Insurance paid**

##### **4.43 Income tax paid**

##### **4.44 Taxes on products**

Taxes on products are payable on goods and services when they are produced, sold, or used. Examples are value-added tax, excise duties and sales tax.

##### **4.45 Other taxes on production**

These are taxes payable out of value added. Examples are payments for licences including trade and vehicle licences, municipal rates and registration fees.

##### **4.46 Other expenses**

## **5 OUTPUT**

### **5.1 Sales from own production**

Quantity and value of main products and by-products produced and sold are to be indicated for each product or by-product separately. Value of other products is to be lumped together in the other category. Sales should be evaluated at basic price, i.e. the price received by the producer exclusive of taxes on products and inclusive of subsidies on products. They exclude all duties and other taxes imposed on the products when they leave the factory. Price rebates and discounts and allowances on returned goods allowed to the customer **should be deducted.**

#### **5.11 Main destinations of exports**

Please indicate the 3 main countries.

#### **5.12 Marketing of final products**

Please indicate the percentages corresponding to direct selling, sales through intermediaries, and exports.

## 5.2 Value of fixed assets produced for own use

Please provide an estimate of the value of fixed assets produced by the establishment for its own use.

## 5.3 Receipts from services rendered

### 5.31 Industrial services

#### 5.311 Receipts from contract work done for others on their materials

Contract work consists of the processing, transformation or assembly of materials supplied by the units which order the work.

#### 5.312 Receipts from repair and installation work done for others

#### 5.313 Other

### 5.32 Non-industrial services

#### 5.321 Rent received

Revenue from the rental or lease of buildings, machinery and other equipment.

#### 5.322 Receipts from transport services rendered to others

#### 5.323 Value of products sold in the same condition as purchased

#### 5.324 Receipts from warehousing services

#### 5.325 Other

Includes revenue from operation of employee facilities (e.g., canteens).

### 5.33 Other receipts

#### 5.431 Interest and dividends received

#### 5.432 Insurance premiums received

#### 5.433 Subsidies received

#### 5.434 Other

E.g., sales of scrap and refuse and value of electricity sold by the establishment, if any.

## 6 VALUE OF STOCKS

This section is designed to measure changes in stocks during the enquiry period as well as the level of stocks. Data should be shown regarding the value of stocks at the beginning and at the end of the accounting period for the following:

### 6.1 Materials, supplies and fuels

This item should include the value of stocks of all materials, parts and components that enter into the product; fuels; and other consumable supplies. Materials owned by the establishment, but held by others for processing, **should be included**, whereas materials owned by others, but held by the establishment for processing **should be excluded**.

### 6.2 Work in progress

This item refers to the value of all materials which have been partially processed but which are not usually sold without further processing. **Work in progress of own-account construction of fixed assets should be excluded**.

### 6.3 Finished goods

This should include all goods made by the establishment and which are ready for sale.

### 6.4 Goods purchased for resale

This item covers the value of any stocks of goods that the establishment has bought with the intention of reselling in the same form, i.e. without further processing or transformation.



## 7 VALUE OF FIXED ASSETS

This section is designed to provide the gross additions to fixed assets by category of fixed assets. The net depreciated book values of fixed assets at the beginning and at the end of the accounting period are to be given by the following categories:

### 7.1 Land

Land refers to all land used for buildings, sheds, etc. within the premises of the establishment where the economic activity is carried out. If information is not available separately for land and buildings, rough estimates may be provided.

### 7.2 Buildings and other construction works

This category also includes factories, offices and warehouses, elevators and other equipment which are part of the buildings as well as any land improvements. **The value of land before improvement is to be given at 7.1 and should not to be included here.**

### 7.3 Transport equipment

### 7.4 Machinery and other equipment

This item includes all industrial machinery and other equipment such as construction machinery, cranes, fork-lift equipment and the like; power generating machinery; metalworking machinery; mining machinery; office machinery, equipment and furniture; and similar machinery and equipment and major renovations and alterations to these. Computers and other data-processing equipment should also be reported as well as plants/machinery for treatment of waste.

### 7.7 Other

All other fixed assets not included above such as library and laboratory apparatus should be included under this item.

## 8 MISCELLANEOUS

### 8.1 Membership

### 8.2 Quality management

### 8.3 Does the establishment have a license?

Please note that this is a delicate question. You should therefore use tact to find out whether the establishment has an operating permit or not.

### 8.4 Working capital (in millions of dinars)

### 8.5 Source of finance

### 8.6 Tenure of buildings occupied for own business

### 8.7 Total area occupied for own business

### 8.8 Utilization of production capacity (%)

Please give the best estimate possible.

### 8.9 Water source and environmental management & technology

#### 8.91 Source of water

#### 8.92 Environmental management & technology

##### 8.921 Are there any environmental regulations?

##### 8.922 Does the establishment have treatment facilities for waste?

Waste refers to materials generated by the production process which are not prime products (i.e. products produced for the market) and which have no further use and are to be discarded.

##### 8.923 If yes, method of treatment

For each type of waste, indicate method of treatment, if any.

**Description of method of treatment:**

**Recycling** is defined as the reprocessing of waste material in a production process that diverts it from the waste stream.

**Incineration** is the burning of wastes under controlled conditions.

**Landfill** is the final placement of waste into or onto the land in a controlled or uncontrolled way.

**Composting** is a biological process that submits biodegradable waste to decomposition resulting in a product that can be recovered and can be used to increase soil fertility.

**8.924 Current technology status**

For each type of machinery, please report the percentage in use by the establishment, the average age and the expected average lifespan.

**8.925 to 8.927**

Self-explanatory, please encircle as appropriate

**9 PROBLEMS ENCOUNTERED DURING REFERENCE PERIOD**

Please list the main problems related to production and marketing activities that were encountered during the reference period.

**The enumerator is required to fill in the boxes giving the main statistics based on the data provided by the establishment. These statistics are meant for the preliminary editing of the completed questionnaire. In case of any queries, these should be settled with the respondent before leaving the premises of the establishment.**

## Abbreviations

COSIT	Central Organization for Statistics and Information
GDP	gross domestic product
GO	gross output
ID	Iraqi dinar
ISIC R3	International Standard Industrial Classification Revision Three
KRG	Kurdistan Region Government
KRSO	Kurdistan Region Statistics Office
MS-Excel	Microsoft Excel
PDA	personal digital assistant
SQL	structured query language
UNIDO	United Nations Industrial Development Organization
VA	value added





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