

EXECUTIVE SUMMARY

The National Statistical Office (NSO) is undertaking Industrial Census in 2007. This is the third of Thailand, after having conducted the first one in 1964 and the second in 1997. The main objective of the census is to collect basic information on manufacturing establishments, such as number, distribution and performance of establishments during the year. Prior to this report, basic information on the structure and distribution of establishment engaged in all economic activities is collected, was presented in the listing report of 2007 Industrial Census (basic information) whole kingdom.

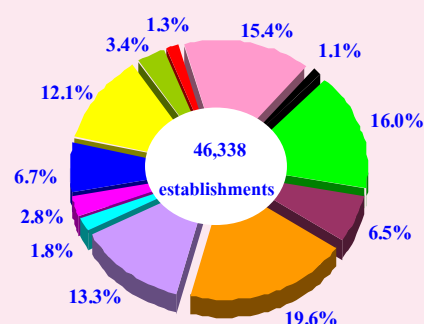
The statistical data presents the results of the 2007 Industrial Census concerning detailed information during January 1, 2006 to December 31, 2006 of manufacturing establishments, located in the **Central region**. The main findings are as follows;

Number of establishments by division of industry

The results of the 2007 Industrial Census, there were totally 46,338 manufacturing establishments, located in the Central region. The highlight industries of this region were *manufacture of wearing apparel* and *manufacture of food and beverages*. There were about 19.6 and 16.0 percent respectively. The followings were *manufacture of furniture* (about 15.4 percent) *manufacture of wood and wood products* (13.3 percent) and *manufacture of*

basic metals and fabricated metal products (12.1 percent).

Figure 1 Percentage of manufacturing establishments by division of industry

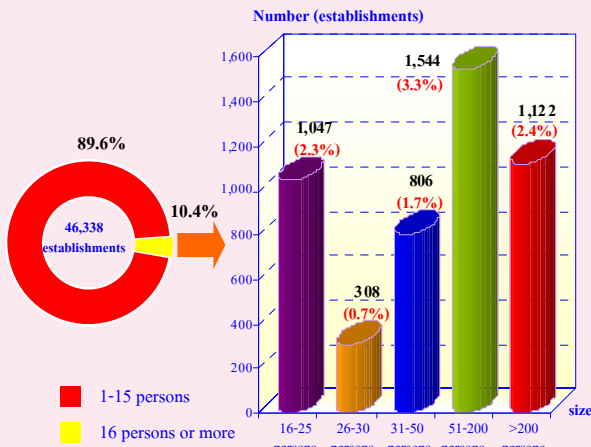


Division 15	Food and Beverages
Division 17	Textiles
Division 18	Wearing Apparel
Division 20	Wood and Wood Products
Division 21-22	Paper and Paper Products, Printing
Division 23-25	Coke, Refined Petroleum Products, Chemicals, Rubber and Plastic
Division 26	Other Non-Metals and Fabricated Metal Products
Division 27-2	Basic Metals and Fabricated Metal Products
Division 29-3	Machinery and Equipment
Division 34-	Motor Vehicles, Trailers and Semi-Trailers and Other Transport Equipment
Division 36	Furniture
Division 16, 19 and 37	Others

Size of establishment

Most of manufacturing establishments or about 89.6 percent were small scale establishments with 1 - 15 persons. The establishments with over 15 persons were about 10.4 percent or 4,827 establishments. Out of these, with 51 - 200 persons were 1,544 establishments and 1,122 establishments with more than 200 persons.

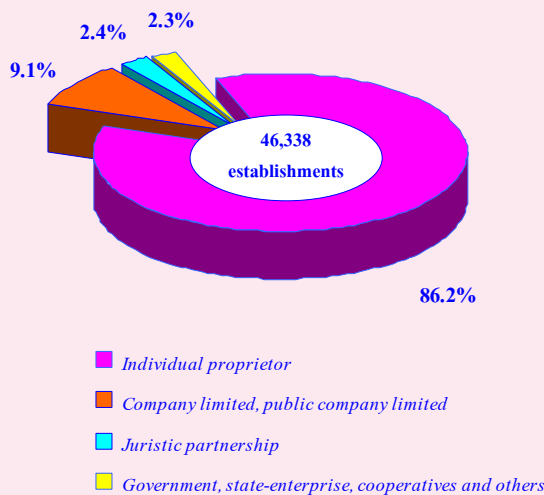
Figure 2 Number of manufacturing establishments by size of establishment (number of persons engaged)



Form of legal organization

Most of manufacturing establishments (about 86.2 percent) were individual proprietor. The establishments, which were in the form of company limited or public company limited of about 9.1 percent. For those, which were juristic partnership and government, state enterprise cooperatives and others had the close proportions, of about 2.4 and 2.3 percent respectively.

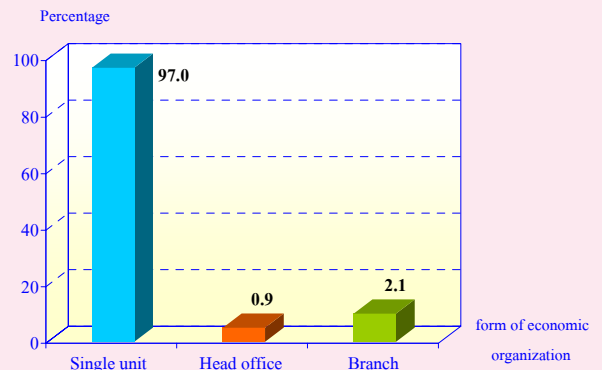
Figure 3 Percentage of manufacturing establishments by form of legal organization



Form of economic organization

The establishments in this industrial census were single unit with the highest proportion, of about 97.0 percent. While the establishments were in branch and head office had very small proportions, of about 2.1 and 0.9 percent respectively.

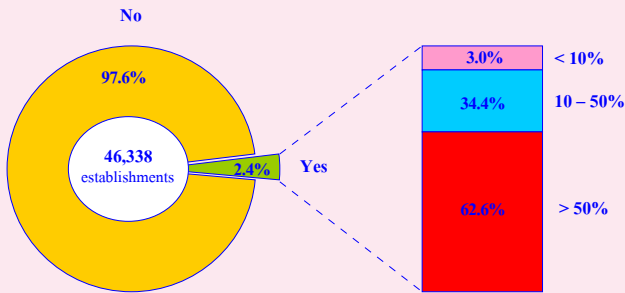
Figure 4 Percentage of manufacturing establishments by form of economic organization



Foreign investment or share holding

Most of manufacturing establishments (about 97.6 percent) in the Central region, had no foreign investment or share holding, while the rest of about 1,091 establishments or about 2.4 percent did. Out of these, about 62.6 percent was over 50% of share holding and about 34.4 percent was 10 - 50% of share holding. The rest of only 3.0 percent was less than 10% of share holding.

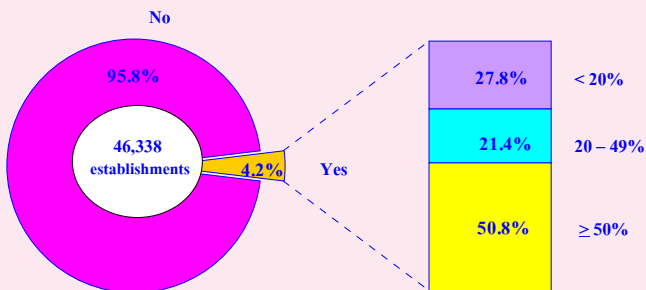
Figure 5 Percentage of manufacturing establishments by foreign investment or share holding



Export

For the export of goods of manufacturing establishments, there were only 1,965 establishments or 4.2 percent. Out of these, about 50.8 percent exported with over 50% of the total sales of goods produced about 27.8 percent had the proportion of exported with less than 20%. The rest of about 21.4 percent between 20 - 49% of export.

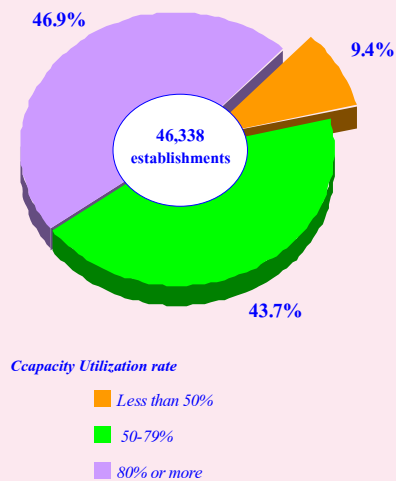
Figure 6 Percentage of manufacturing establishments by export



Capacity utilization rate

The average capacity utilization rate in 2006 of manufacturing establishments was about 73.0%. The majority of manufacturing establishments (about 46.9 percent) had capacity utilization rate about 80% or more. The establishments with the capacity utilization rate about 80% or more. The establishments with the capacity utilization rate between 50 - 79% was about 43.7 percent. While those with capacity utilization rate less than 50% was about 9.4 percent.

Figure 7 Percentage of manufacturing establishments by capacity utilization rate

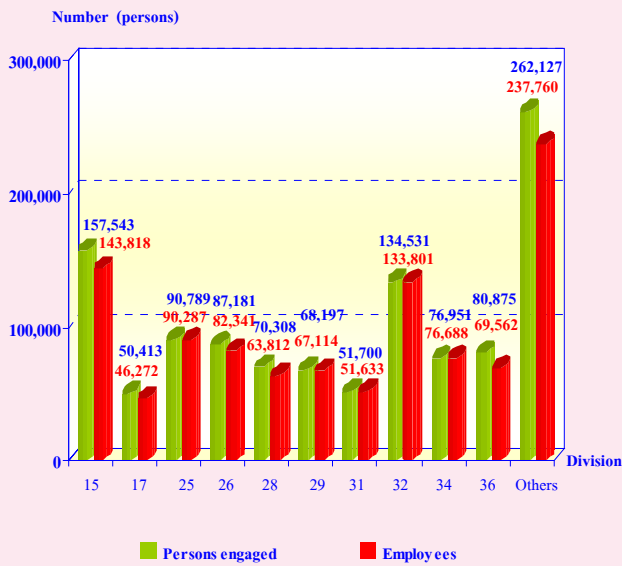


Number of persons engaged and employees

In 2006, there were worker working in the manufacturing establishments in the Central region, were totally 1.1 million persons. In terms of employees, there were totally 1.0 million persons. Most of them about 13.5 percent worked in *manufacture of food and beverages*. Followed by those *manufacture of radio, television and communication equipment and apparatus* of about

12.6 percent. For the employees worked in the *manufacture of rubber and plastic* and *manufacture of non-metallic mineral product* had the proportions, of about 8.5 and 7.7 percent respectively.

Figure 8 Number of persons engaged and employees of manufacturing establishments by division of industry



Persons engaged refer to owner or juristic partnerships unpaid worker and employees.

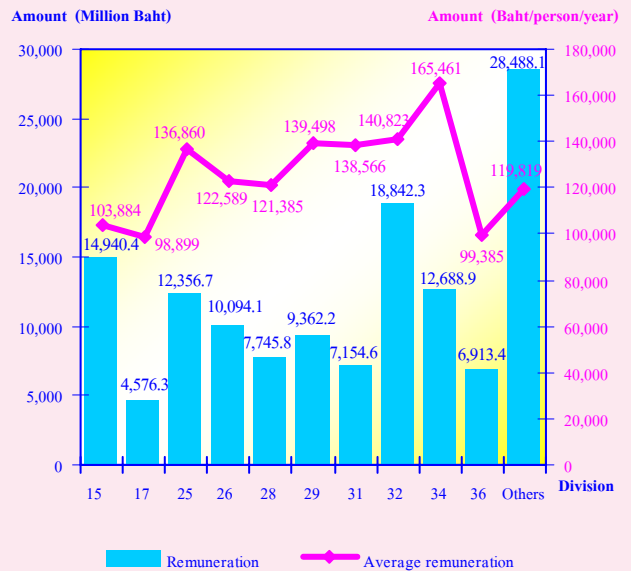
Division of industry :

- Division 15 Food and Beverages
- Division 17 Textiles
- Division 25 Rubber and Plastic
- Division 26 Non-Metallic Mineral Products
- Division 28 Fabricated Metal Products
- Division 29 Machinery and Equipment
- Division 31 Electrical Machinery and Apparatus
- Division 32 Radio, Television and Communication
- Division 34 Trailers and Semi-Trailers
- Division 36 Furniture
- Division 16, 18-24, 27, 30, 33, 35 and 37
- Others

Remuneration

In 2006, the employees working in manufacturing establishments in the Central region received the total remuneration about 133,162.9 million baht or about 125,261 baht per person annually. The employees engaged in *manufacturing of trailers and semi-trailers* received the highest annual remuneration of about 164,461 baht per person. Followed by those engaged in *manufacture of radio, television and communication* and *manufacture of machinery and equipment* received the annual remuneration, of about 140,823 and 139,498 baht per person respectively.

Figure 9 Remuneration of manufacturing establishments by division of industry

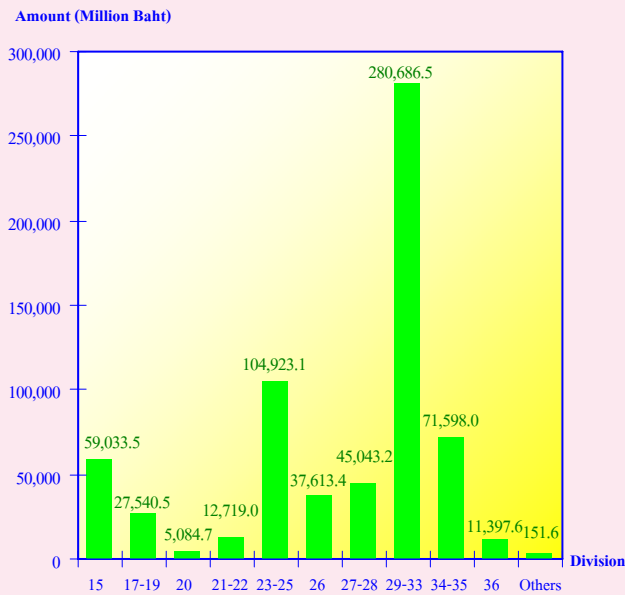


Value of gross output, intermediate consumption and value added

In 2006, the value of gross output of manufacturing establishments was totally 2.9 million million baht. The intermediate consumption and value added were totally 2.2 million million

baht and 655,791.2 million baht respectively. Comparing the value added to value of gross output was about 22.8 percent.

Figure 10 Value added of manufacturing establishments by division of industry



Value added = Value of gross output - Intermediate consumption

Value of gross output refers to receipts of establishment in 2006

Intermediate consumption refers to all expenses on the production process of goods or services in the establishment in 2006

Division of industry :

- Division 15 Food and Beverages
- Division 17-19 Textiles, Wearing apparel, Leather products
- Division 20 Wood and Wood Products
- Division 21-22 Paper and paper products, printing
- Division 23-25 Coke, Refined Petroleum Products, Chemicals, Rubber and Plastic
- Division 26 Other Non-Metals and Fabricated Metal Products
- Division 27-28 Basic Metals and Fabricated Metal Products
- Division 29-33 Machinery and Equipment
- Division 34-35 Motor Vehicles, Trailers and Semi-Trailers and Other Transport Equipment
- Division 36 Furniture
- Division 16 and 37 Others

For the average value of gross output had about 62.1 million baht per establishment and 2.5 million baht per person. In terms of the average value added, had about 14.2 million baht per establishment and 580,031 baht per person respectively.

Considering by division of industry, it was found that most of value added, was from *manufacture of machinery and equipment* with the high proportions (about 42.8 percent). The following was from *manufacture of coke, refined petroleum products, chemicals rubber and plastic* had the proportions (about 16.0 percent).

Data comparison of manufacturing establishments during 10 years

Comparing the data of industrial census in 2007 and 1997 of which the operation period was of the year before the census year, showed that number of manufacturing establishments with 11 number of persons engaged or more increased with high growth by 56.4%, as well as number of persons engaged and average number of employees per establishment increased by 81.8% and 16.2% respectively.

In terms of employment, number of employees increased by 81.5% and average number of employees per establishment increased by 16.0%, as well as the increase in average persons engaged per establishment. For the annual remuneration per employee increased by 116.9% during 10 years

For the value of gross output, intermediate consumption and value added of manufacturing establishments during 10 years increased by 156.5%, 169.6% and 120.0% respectively.

Table 1 Principal data of manufacturing establishments in year 1996 and 2006

Data items	1996 ^{1/}	2006 ^{2/}	% Change
Number of establishments (Establishments)	3,778	5,909	56.4
Number of persons engaged (Persons)	566,912	1,030,789	81.8
<i>Average per establishment (Persons)</i>	<i>150.1</i>	<i>174.4</i>	<i>16.2</i>
Number of employees (Persons)	563,570	1,022,903	81.5
<i>Average per establishment (Persons)</i>	<i>149.2</i>	<i>173.1</i>	<i>16.0</i>
Remuneration (Million Baht)	60,372.4	130,923.9	116.9
<i>Average annual per employee (Baht)</i>	<i>107,125.0</i>	<i>127,992.5</i>	<i>19.5</i>
Value of gross output (Million Baht)	1,113,578.3	2,855,814.4	156.5
<i>Average per establishment (Thousand Baht)</i>	<i>294,753.4</i>	<i>483,299.1</i>	<i>64.0</i>
<i>Average per person (Thousand Baht)</i>	<i>1,964.3</i>	<i>2,770.5</i>	<i>41.0</i>
Intermediate consumption (Million Baht)	818,840.0	2,207,409.3	169.6
<i>Average per establishment (Thousand Baht)</i>	<i>216,739.0</i>	<i>373,567.3</i>	<i>72.4</i>
<i>Average per person (Thousand Baht)</i>	<i>1,444.4</i>	<i>2,141.5</i>	<i>48.3</i>
Value added (Million Baht)	294,738.2	648,405.0	120.0
<i>Average per establishment (Thousand Baht)</i>	<i>78,014.4</i>	<i>109,731.8</i>	<i>40.7</i>
<i>Average per person (Thousand Baht)</i>	<i>519.9</i>	<i>629.0</i>	<i>21.0</i>

Note : ^{1/} The 1997 industrial census: Central region, Coverage : manufacturing establishments with 10 persons engaged or more.

^{2/} The 2007 industrial census: Central region, Only manufacturing establishments with 11 persons engaged or more.

Data summary and recommendation

The results of the 2007 Industrial Census, show that there were totally 46,338 manufacturing establishments in the Central region. Most of them were small scale establishments with 1 - 15 persons, of about 89.6 percent. The highlight industry was *manufacture of textiles, wearing apparel, leather products* (about 27.0 percent). There were totally 1.1 million persons and out of these, about 1.0 million persons were employees. They received the annual remuneration, of about 125,261 baht per person. The manufacturing establishments in the Central region contributed value of gross output and intermediate consumption, of about 2.9 and 2.1 million

million baht respectively. The value added had about 655,791.2 million baht.

Comparing the data of industrial census in 2007 and 1997, as the result, the operation of establishments in the Central region during 10 years was favorably growth. It was favorable effected by the increasing in number of establishments, as well as the employment and value of gross output in overall of economic conditions. Furthermore, the Thai economy continues her sustainable growth should emphasize on investment promotion, increasing productivity and employment and goods and services promotion in order to support the demand in the country and abroad.