

## INDUSTRIAL SURVEY

**2008**

There were 1,045 establishments operating in industrial production in 2008, a decrease of 70 over 2007; total number of persons engaged fell by 15.5% to 24,901. Total Value of Production & Other Receipts decreased by 13.2% year-on-year to MOP14.31 billion; Gross Value Added amounted to MOP3.56 billion, down by 10.6%.

Table 1 - Principal Indicators

Industry		Establishments	Persons engaged	Compensation of employees	Value of production & other receipts	Of which: Value of production	Intermediate consumption	Gross value added	Gross fixed capital formation
		No.							
<b>Total</b>	<b>2008</b>	<b>1 045</b>	<b>24 901</b>	<b>2 287 520</b>	<b>14 306 286</b>	<b>14 247 312</b>	<b>10 748 231</b>	<b>3 558 055</b>	<b>1 472 547</b>
	<b>2007</b>	<b>1 115</b>	<b>29 457</b>	<b>2 374 543</b>	<b>16 485 655</b>	<b>16 376 678</b>	<b>12 505 059</b>	<b>3 980 596</b>	<b>654 510</b>
	<i>Year-on-year (%)</i>	<b>-6.3</b>	<b>-15.5</b>	<b>-3.7</b>	<b>-13.2</b>	<b>-13.0</b>	<b>-14.0</b>	<b>-10.6</b>	<b>125.0</b>
Mining & Quarrying	2008	1	17	4 317	11 425	11 425	8 946	2 479	1 910
	2007	1	24	6 054	17 591	17 591	8 588	9 003	-
	<i>Year-on-year (%)</i>	-	-29.2	-28.7	-35.1	-35.1	4.2	-72.5	-
Manufacturing	2008	1 039	23 831	1 728 131	11 396 916	11 341 555	9 274 639	2 122 278	52 526
	2007	1 110	28 398	1 972 565	13 849 558	13 743 235	11 118 208	2 731 349	321 163
	<i>Year-on-year (%)</i>	<b>-6.4</b>	<b>-16.1</b>	<b>-12.4</b>	<b>-17.7</b>	<b>-17.5</b>	<b>-16.6</b>	<b>-22.3</b>	<b>-83.6</b>
Textiles	2008	40	2 097	159 385	1 636 443	1 631 486	1 402 276	234 166	-49 100
	2007	55	2 789	197 916	1 912 406	1 877 542	1 601 702	310 704	92 020
	<i>Year-on-year (%)</i>	<b>-27.3</b>	<b>-24.8</b>	<b>-19.5</b>	<b>-14.4</b>	<b>-13.1</b>	<b>-12.5</b>	<b>-24.6</b>	<b>-153.4</b>
Wearing Apparel	2008	308	14 518	886 861	6 146 010	6 125 949	5 241 210	904 800	-18 428
	2007	372	18 168	1 038 899	7 671 074	7 650 271	6 384 528	1 286 546	37 363
	<i>Year-on-year (%)</i>	<b>-17.2</b>	<b>-20.1</b>	<b>-14.6</b>	<b>-19.9</b>	<b>-19.9</b>	<b>-17.9</b>	<b>-29.7</b>	<b>-149.3</b>
Other Manufacturing	2008	691	7 216	681 885	3 614 463	3 584 120	2 631 152	983 311	120 055
	2007	683	7 441	735 750	4 266 078	4 215 422	3 131 978	1 134 099	191 780
	<i>Year-on-year (%)</i>	<b>1.2</b>	<b>-3.0</b>	<b>-7.3</b>	<b>-15.3</b>	<b>-15.0</b>	<b>-16.0</b>	<b>-13.3</b>	<b>-37.4</b>
Electricity, Gas & Water Supply	2008	5	1 053	555 071	2 897 945	2 894 332	1 464 646	1 433 299	1 418 111
	2007	4	1 035	395 924	2 618 506	2 615 853	1 378 262	1 240 244	333 346
	<i>Year-on-year (%)</i>	<b>25.0</b>	<b>1.7</b>	<b>40.2</b>	<b>10.7</b>	<b>10.6</b>	<b>6.3</b>	<b>15.6</b>	<b>325.4</b>

### Number of establishments and persons engaged

The Manufacturing sector remains one of the important components of industrial production of Macao. In 2008, number of Manufacturing establishments totalled 1,039 (99.4% of total), engaging 23,831 (95.7% of total) persons, down by 6.4% and 16.1% respectively from a year earlier. Among these establishments, 81.4% had less than 30 persons and only 5.0% had 100 or more persons, indicating that the Manufacturing sector was still predominated with small establishments. In addition, number of establishment of Electricity, Gas & Water Supply increase by 1 in 2008, with a total of 1,053 persons engaged.

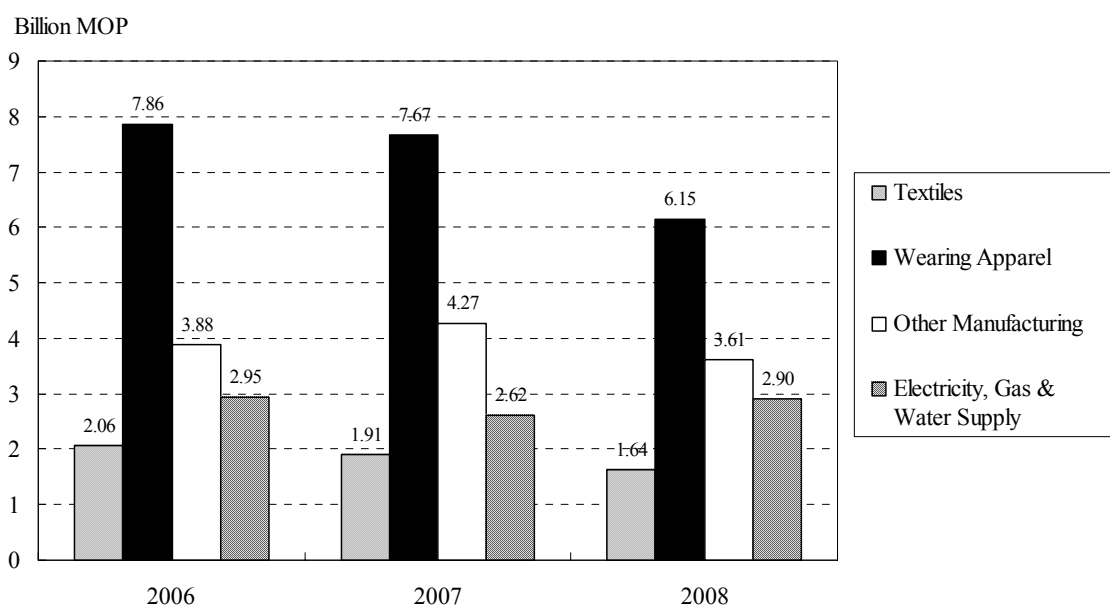
Table 2 - Size of Establishments (2008)

Number of persons engaged	Total		Manufacturing		Textiles		Wearing Apparel		Other Industries	
	No.	Year-on-year (%)	No.	Year-on-year (%)	No.	Year-on-year (%)	No.	Year-on-year (%)	No.	Year-on-year (%)
	<b>Total</b>	<b>1 045</b>	<b>-6.3</b>	<b>1 039</b>	<b>-6.4</b>	<b>40</b>	<b>-27.3</b>	<b>308</b>	<b>-17.2</b>	<b>6</b>
<30	849	-1.6	846	-1.6	23	-25.8	169	-11.1	3	-
30-99	142	-24.5	141	-25.0	12	-29.4	104	-24.1	1	-
≥100	54	-15.6	52	-16.1	5	-28.6	35	-22.2	2	-

### Value of Production & Other Receipts

In 2008, the principal indicators of the Manufacturing sector saw year-on-year decrease on account of shrinking domestic exports upon weakening external demand amidst the global financial crisis. Value of Production & Other Receipts of the Manufacturing sector decreased by 17.7% over 2007 to MOP11.40 billion, attributable to the decline of those of the Manufacturing of Wearing Apparel and Textiles that dropped by 19.9% and 14.4% to MOP6.15 billion and MOP1.64 billion respectively. Value of Production & Other Receipts of Dressing of Leather & Manufacture of Footwear plunged by 93.8% to MOP9.42 million, and that of Mining & Quarrying went down by 35.1% to MOP11.43 million. On the contrary, with increasing consumption of electricity and introduction of natural gas in electricity generation, Value of Production & Other Receipts of Electricity, Gas & Water Supply increased by 10.7% over 2007 to MOP2.90 billion.

Graph 1 - Value of Production &amp; Other Receipts



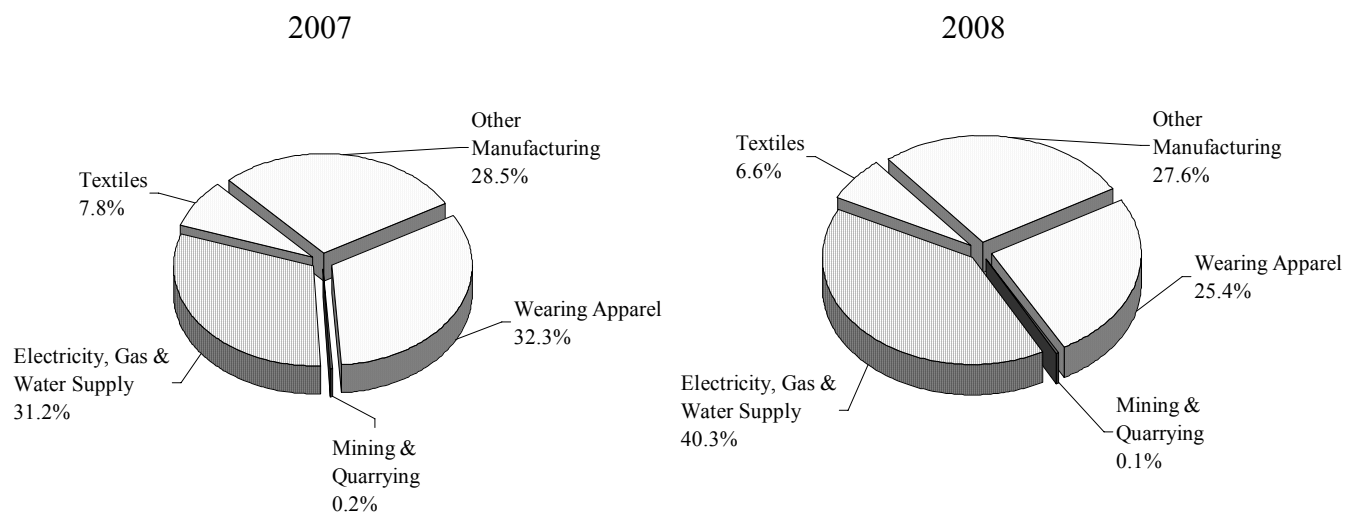
## Intermediate Consumption

Intermediate Consumption went down by 14.0% over 2007 to MOP10.75 billion; in particular, Intermediate Consumption of the Manufacturing of Wearing Apparel and Textiles decreased by 17.9% and 12.5% respectively, while that of Mining & Quarrying; and Electricity, Gas & Water Supply increased by 4.2% and 6.3% respectively.

## Gross Value Added

Gross Value Added that measures the sectoral contribution to the economy decreased by 10.6% year-on-year to MOP3.56 billion. Gross Value Added of the Manufacturing sector went down by 22.3% over 2007 to MOP2.12 billion, with that of the Manufacturing of Wearing Apparel (MOP900 million) and Textiles (MOP234 million) dropping by 29.7% and 24.6% respectively; meanwhile, Gross Value Added of Mining & Quarrying declined by 72.5% to MOP2.48 million. However, Gross Value Added of Electricity, Gas & Water Supply increased by 15.6% to MOP1.43 billion, accounting for more than 40.0% of the total of industrial production.

Graph 2 - Gross Value Added



## Gross Fixed Capital Formation

On account of a completed renovation of the electricity distribution network and the operation a new natural gas supply company, Gross Fixed Capital Formation of Electricity, Gas & Water Supply rose significantly by 325.4% over 2007 to MOP1.42 billion, driving the Gross Fixed Capital Formation of industrial production to surge by 125.0% to MOP1.47 billion. However, Gross Fixed Capital Formation of the Manufacturing sector decreased notably by 83.6% year-on-year to MOP52.53 million, of which that of Wearing Apparel and Textiles registered decrease of 149.3% and 153.4% respectively.

## Survey coverage

This survey covered all establishments engaging in activities under Section C (Mining & quarrying), Section D (Manufacturing) and Section E (Electricity, gas & water supply) of the Classification of Economic Activities of Macao, Revision 1 (CAM-Rev.1).

The statistical unit of the Industrial Survey is an establishment. When an enterprise has more than one establishment engaging in the same industry, these establishments are considered as one statistical unit.

## Data collection

Each statistical unit is required to complete one questionnaire. Survey questionnaires are mailed to the establishments. Upon completion, the respondents could return the questionnaires to the Statistics and Census Service (DSEC) in person, by post or by submitting them to the visiting enumerators. Alternatively, establishments can download the electronic version from “Survey Corner” of DSEC website and upload the respective questionnaires upon completion.

## Sampling and Statistical Inference of Results

The samples were selected by stratified random sampling based on the list of establishments originated from DSEC. For the strata with limited number of statistical units, establishments with 100 or more persons engaged, as well as statistical units comprising multiple establishments, full enumeration would be undertaken.

The strata were formed according to the 2-digit level of CAM-Rev.1 and the number of persons engaged, as follows:

1 - 29
30 - 49
50 - 99
100 or more

Some industries of small significance were grouped under “Manufacturing not elsewhere classified”.

Sample size of the Industrial Survey 2008 consisted of 493 statistical units. Survey results were extrapolated from the information collected from 400 completed questionnaires and 93 establishments were excluded due to the following reasons:

	No.
Licence cancelled and closure	32
Non-contact	43
Other reasons	18
Total	<u>93</u>

Statistical inference of the results was based on the sampling method used, as follows:

- 1) Estimation of the total value of variable  $y$  of a particular industry:  $\hat{Y}_j = \sum_{h=1}^4 \sum_{i=1}^{n_{hj}} w_{hj} * y_{hji}$

where:

$j$ : industry group

$h$ : employment size group

$i$ : establishment

$y_{hji}$ : value of variable  $y$  for an establishment

$n_{hj}$  : number of sample establishments of a specific stratum

$N_{hj}$  : total number of statistical units of a specific stratum

$$w_{hj} = \frac{N_{hj}}{n_{hj}}$$

- 2) Estimation of the variance of parameter Y of a particular industry:

$$\hat{V}(Y_j) = \sum_{h=1}^4 \left(1 - \frac{1}{W_{hj}}\right) * N_{hj}^2 * \frac{s_{hj}^2}{n_{hj}}$$

$s_{hj}$  : standard deviation of variable y of a specific stratum

## Glossary

**ESTABLISHMENT** : An economic unit which engages, under a single legal entity, in one or predominantly one kind of economic activity at a single location.

**PERSONS ENGAGED** : Individuals who work for the establishment, including paid and unpaid workers. Also included are individuals who are temporarily absent for a short period, on sick leave, on holiday or other reasons; excluded are those who are absent for an period.

**VALUE OF PRODUCTION** : Sales of products, plus changes in inventories of finished goods and work-in-progress; receipts for industrial work and services rendered to other establishments (e.g. processing work, repair, maintenance and installation services rendered, research and development performed); value of production for own use, and re-sales of goods in the same condition as purchased and changes in these inventories; less the costs of transportation provided by others and the costs of goods re-sold in the same condition as purchased.

**VALUE OF PRODUCTION & OTHER RECEIPTS** : Value of production plus receipts for non-industrial services rendered to other establishments.

**COST OF PRODUCTION** : Costs of raw materials, water, fuels and electricity acquired, plus expenses on industrial work performed by others, and then less changes in inventories of raw materials and fuels.

**INTERMEDIATE CONSUMPTION** : Cost of production plus expenses on non-industrial services rendered by others.

**VALUE ADDED OF INDUSTRY** : Value of production less cost of production.

**GROSS VALUE ADDED** : Value of production & other receipts less intermediate consumption.

**GROSS FIXED CAPITAL FORMATION** : Equals the value of acquisition minus disposal of fixed assets (new, used and produced by the establishment for own use), which include buildings, furniture, machinery and equipment, vehicles and other durable goods with a usable span of one year or more. Also included are major repairs, alternations and extensions made to the existing assets.

## Symbols and abbreviations

- Absolute value equals zero

# Confidential data

Figures may not add up to the total due to rounding

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1. 按行業之主要統計

PRINCIPAIS ESTATÍSTICAS, POR RAMO DE ACTIVIDADE ECONÓMICA  
PRINCIPAL STATISTICS BY INDUSTRY

1/2

行業分類 Classificação das actividades económicas Classification of industry	場所	在職員工	員工支出	固定資本 形成總額
	Estabelecimentos	Pessoal ao serviço	Despesas com o pessoal	Formação bruta de capital fixo
	Establishments	Persons engaged	Compensation of employees	Gross fixed capital formation
	數目 Número Number		千澳門元 '000 MOP	
1	2	3	4	5
<b>總數</b> Total	<b>1 045</b>	<b>24 901</b>	<b>2 287 520</b>	<b>1 472 547</b>
<b>C 採礦業</b> Indústrias extractivas Mining and quarrying	<b>1</b>	<b>17</b>	<b>4 317</b>	<b>1 910</b>
<b>D 製造業</b> Indústrias transformadoras Manufacturing	<b>1 039</b>	<b>23 831</b>	<b>1 728 131</b>	<b>52 526</b>
15 食品及飲品業 Indústrias alimentares e das bebidas Manufacture of food products and beverages	212	2 605	205 573	55 516
17 紡織業 Indústria têxtil Manufacture of textiles	40	2 097	159 385	-49 100
18 製衣業；毛皮製品的處理、染色及製造 Indústria do vestuário; preparação, tingimento e fabricação de artigos de peles com pêlo Manufacture of wearing apparel; dressing and dyeing of fur	308	14 518	886 861	-18 428
19 皮革的鞣製及完成工序，袋、錢包和同類物品、皮具、鞍具及鞋的製造 Curtimenta e acabamento de peles sem pêlo; fabricação de malas, de carteiras, artigos de correio, de seleiro e outros artigos de couro; indústria de calçado Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear	4	104	4 376	15
22 出版、印刷及錄有資訊的媒體的複製 Edição, impressão e reprodução de suportes de informação gravados Publishing, printing and reproduction of recorded media	153	1 276	127 631	19 485
26 其他非金屬礦物產品的製造 Fabricação de outros produtos minerais não metálicos Manufacture of other non-metallic mineral products	16	425	78 818	20 740
其他未列明的製造業 Outras indústrias transformadoras, n.e. Manufacturing not elsewhere classified	306	2 806	265 487	24 298
<b>E 電力、氣體及水的生產及分配</b> Produção e distribuição de electricidade, gás e água Electricity, gas and water supply	<b>5</b>	<b>1 053</b>	<b>555 071</b>	<b>1 418 111</b>
40 電力、氣體、蒸氣和熱水的生產及分配 Produção e distribuição de electricidade, de gás, de vapor e de água quente Electricity, gas, steam and hot water supply	4	801	484 021	1 322 792
41 水的利用、處理及分配 Captação, tratamento e distribuição de água Collection, purification and distribution of water	1	252	71 051	95 319

1. 按行業之主要統計  
PRINCIPAIS ESTATÍSTICAS, POR RAMO DE ACTIVIDADE ECONÓMICA  
PRINCIPAL STATISTICS BY INDUSTRY

2/2

行業分類 Classificação das actividades económicas Classification of industry	工業產值及 其他收益	其中： 工業產值	消耗總額	其中： 生產消耗	增加值總額	其中： 工業增加值
	Valor de produção e outras receitas	Da qual: Valor de produção	Consumo intermédio	Da qual: Custo de produção	Valor acrescentado bruto	Da qual: Valor acrescentado industrial
	Value of production and other receipts	Of which: Value of production	Intermediate consumption	Of which: Cost of production	Gross value added	Of which: Value added of industry
	千澳門元 '000 MOP					
1	2	3	4	5	6	7
<b>總數</b> Total	<b>14 306 286</b>	<b>14 247 312</b>	<b>10 748 231</b>	<b>10 087 828</b>	<b>3 558 055</b>	<b>4 159 484</b>
<b>C 採礦業</b> Indústrias extractivas Mining and quarrying	<b>11 425</b>	<b>11 425</b>	<b>8 946</b>	<b>8 090</b>	<b>2 479</b>	<b>3 335</b>
<b>D 製造業</b> Indústrias transformadoras Manufacturing	<b>11 396 916</b>	<b>11 341 555</b>	<b>9 274 639</b>	<b>8 744 695</b>	<b>2 122 278</b>	<b>2 596 860</b>
15 食品及飲品業 Indústrias alimentares e das bebidas Manufacture of food products and beverages	617 153	597 127	358 370	285 304	258 783	311 822
17 紡織業 Indústria têxtil Manufacture of textiles	1 636 443	1 631 486	1 402 276	1 340 347	234 166	291 139
18 製衣業；毛皮製品的處理、染色及製造 Indústria do vestuário; preparação, tingimento e fabricação de artigos de peles com pêlo Manufacture of wearing apparel; dressing and dyeing of fur	6 146 010	6 125 949	5 241 210	5 019 478	904 800	1 106 471
19 皮革的鞣製及完成工序，袋、錢包和同類物品、皮具、鞍具及鞋的製造 Curtimenta e acabamento de peles sem pêlo; fabricação de malas, de carteiras, artigos de correio, de seleiro e outros artigos de couro; indústria de calçado Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear	9 416	9 416	9 664	8 796	-248	620
22 出版、印刷及錄有資訊的媒體的複製 Edição, impressão e reprodução de suportes de informação gravados Publishing, printing and reproduction of recorded media	547 981	547 594	361 548	328 297	186 433	219 297
26 其他非金屬礦物產品的製造 Fabricação de outros produtos minerais não metálicos Manufacture of other non-metallic mineral products	825 468	820 225	699 040	671 175	126 428	149 049
其他未列明的製造業 Outras indústrias transformadoras, n.e. Manufacturing not elsewhere classified	1 614 445	1 609 758	1 202 531	1 091 298	411 916	518 462
<b>E 電力、氣體及水的生產及分配</b> Produção e distribuição de electricidade, gás e água Electricity, gas and water supply	<b>2 897 945</b>	<b>2 894 332</b>	<b>1 464 646</b>	<b>1 335 043</b>	<b>1 433 299</b>	<b>1 559 289</b>
40 電力、氣體、蒸氣和熱水的生產及分配 Produção e distribuição de electricidade, de gás, de vapor e de água quente Electricity, gas, steam and hot water supply	2 565 750	2 565 750	1 301 343	1 194 009	1 264 407	1 371 740
41 水的利用、處理及分配 Captação, tratamento e distribuição de água Collection, purification and distribution of water	332 196	328 582	163 303	141 034	168 892	187 548

2. 按在職員工數目之主要統計

PRINCIPAIS ESTATÍSTICAS, POR ESCALÕES DE PESSOAL AO SERVIÇO  
PRINCIPAL STATISTICS BY NUMBER OF PERSONS ENGAGED

在職員工 數目 Escalaões de pessoal ao serviço Number of persons engaged	場所 Estabelecimentos Establishments	在職 員工 Pessoal ao serviço Persons engaged	員工 支出 Despesas com o pessoal Compensation of employees	固定資本 形成總額 Formação bruta de capital fixo Gross fixed capital formation	工業 產值 Valor de produção Value of production	工業 增加值 Valor acrescentado industrial Value added of industry	生產 消耗 Custo de produção Cost of production
	數目 Número Number		千澳門元 '000 MOP				
1	2	3	4	5	6	7	8
<b>總數 Total</b>	<b>1 045</b>	<b>24 901</b>	<b>2 287 520</b>	<b>1 472 547</b>	<b>14 247 312</b>	<b>4 159 484</b>	<b>10 087 828</b>
1 - 29	849	6 342	471 440	49 906	2 425 108	721 593	1 703 516
30 - 49	42	1 614	125 229	178 541	1 027 810	244 766	783 044
50 - 99	100	6 921	420 689	21 473	3 163 859	611 736	2 552 124
100 - 199	42	5 862	487 280	25 331	3 173 297	698 767	2 474 530
≥ 200	12	4 162	782 881	1 197 296	4 457 237	1 882 622	2 574 614

3. 按行業之主要統計指標抽樣誤差

ERROS DE AMOSTRAGEM DAS PRINCIPAIS ESTATÍSTICAS ESTIMADAS, POR RAMO DE ACTIVIDADE  
ECONÓMICA  
SAMPLING ERRORS OF PRINCIPAL STATISTICS BY INDUSTRY

行業 Ramo de actividade económica Classification of industry	在職 員工 Pessoal ao serviço Persons engaged	員工 支出 Despesas Com o pessoal Compensation of employees	固定資本 形成總額 Formação bruta de capital fixo Gross fixed capital formation	工業 產值 Valor de produção Value of production	工業 增加值 Valor acrescentado industrial Value added of industry	生產 消耗 Custo de produção Cost of production
	數目 Número Number		千澳門元 '000 MOP			
1	2	3	4	5	6	7
<b>D 製造業</b>	<b>313</b>	<b>27 580</b>	<b>24 680</b>	<b>432 893</b>	<b>64 810</b>	<b>403 154</b>
<b>Indústrias transformadoras</b>						
<b>Manufacturing</b>						
15 食品及飲品業 Indústrias alimentares e das bebidas Manufacture of food products and beverages	96	9 959	3 482	21 615	14 209	10 286
18 製衣業；毛皮製品的處理、染色及製造 Indústria do vestuário; preparação, tingimento e fabricação de artigos de peles com pêlo Manufacture of wearing apparel; dressing and dyeing of fur	240	18 768	17 214	406 158	30 761	383 147
22 出版、印刷及錄有資訊的媒體的複製 Edição, impressão e reprodução de suportes de informação gravados Publishing, printing and reproduction of recorded media	97	11 311	1 551	124 207	18 442	114 757
其他未列明的製造業 Outras indústrias transformadoras, n.e. Manufacturing not elsewhere classified	147	13 614	17 269	80 851	52 078	49 563

以下統計表可在本局網頁下載：

**Os quadros abaixo indicados podem ser consultados na homepage da DSEC:**

**The following statistical tables can be downloaded from our website:**

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Sales of goods produced and intermediate consumption by industry
12. 按行業統計之非工業服務收益及由第三者提供之非工業服務費用  
Receitas de serviços não industriais e custo de serviços não industriais prestados por terceiros, por ramo de actividade económica  
Receipts from non-industrial services and payments for non-industrial services rendered by others by industry
13. 按在職員工數目估計之主要統計的抽樣誤差  
Erros de amostragem das principais estatísticas estimadas, por escalões de pessoal ao serviço  
Sampling errors of principal statistics by number of persons engaged

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索取統計資料

ACCESSO À INFORMAÇÃO ESTATÍSTICA

ACCESS TO STATISTICAL INFORMATION

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如欲索取進一步統計資料，可聯絡本局文件暨資料傳播中心：

澳門宋玉生廣場 411-417 號  
皇朝廣場 17 樓  
電話：8399 5311  
傳真：2830 7825  
電郵：info@dsec.gov.mo  
網址：www.dsec.gov.mo

Para efeitos de informação. Contacte Centro de Documentação e Difusão de Informação:

Alameda Dr. Carlos d' Assumpção,  
nº 411-417, Edf. "Dynasty Plaza",  
17º andar, Macau  
Tel.: 8399 5311  
Fax: 2830 7825  
E-mail: info@dsec.gov.mo  
Website: www.dsec.gov.mo

Further statistical information can be obtained from the Documentation and Information Centre of the Statistics and Census Service:

17<sup>th</sup> floor, Dynasty Plaza,  
411-417 Alameda Dr. Carlos d' Assumpção,  
Macao  
Tel.: 8399 5311  
Fax: 2830 7825  
E-mail: info@dsec.gov.mo  
Website: www.dsec.gov.mo

統計服務全為您

A estatística ao serviço da comunidade  
Statistics are here to serve you