

Directions

I Census of Manufacture

1. Purpose of the Census

The Census of Manufacture (hereafter referred to as the Census) is intended to determine current developments of manufacturing industry in Japan.

2. Legal Framework

The Census represents designated statistics survey (Designated Statistics No. 10) based on the Statistics Law (Law No. 18 of 1947) and is implemented according to the Regulations for the Census of Manufacture (Ordinance No. 81 of the Ministry of International Trade and Industry of 1951).

3. Date of Survey

The date of survey of the 2002 Census is December 31, 2002.

4. Scope of the Census

The Census covers all establishments (excluding those belonging to the government) falling under [Division F - Manufacturing Industry] listed in the Standard Industrial Classification for Japan (2002 Announcement No. 139 of Management and Coordination Agency). The Census is conducted on all establishments in years ending with 0, 3, 5 and 8 of the Western calendar year. For other years, the Census covers establishments with 4 or more employees.

5. Method of Survey

For the purpose of the Census, the Census of Manufacture Form A applies to establishments with 30 or more employees (except head offices not directly engaged in manufacturing, processing or repair of industrial products), while Form B applies to those with 29 or fewer employees (except head offices not directly engaged in manufacturing, processing or repair of industrial products). The Census is based on entries in these forms filled by managers or administrators of applicable establishments.

6. Publication

The 2002 Census compiles its findings by "industry", "commodity", "city, town and village", "industrial district", "industrial site and water", and by "enterprise".

The Report by Industrial Site and Water tallies up findings on survey items concerning industrial site and water, with regard to establishments with 30 or more employees, representing the status of the use of industrial site and industrial water. The Report by Industry classifies establishments with 4 or more employees by the Standard Industrial Classification for Japan according to their major activities and tallies up major items surveyed by industry. The Report by Commodity tallies up goods manufactured and processed by establishments with 4 or more employees by commodity. The Report by City, Town and Village tallies up findings on major items surveyed with regard to establishments with 4 or more employees by city, town and village. The Report by Industrial District tallies up findings on major items surveyed with regard to establishments with 4 or more employees by prefecture and by industrial district. The Report by Enterprise tallies up findings of survey with regard to establishments with 4 or more employees by establishment after recompiling them by enterprise.

II Report by Industrial Site and Water of the 2002 Census

1. Tabulation of Report by Industrial Site and Water

The Report by Industrial Site and Water tallies up findings in the Census of Manufacture Form A of the 2002 Census of establishments with 30 or more employees.

2. Industrial Classification for the Census

The industrial classification for the Census was revised in 2002.

(1) The Industrial Classification for the Census conforms in principle to the Standard Industrial Classification for Japan.

| Industrial classification for the Census of Manufacture | | Standard industrial classification for Japan | |
|---|--|--|--------------------------------------|
| 1521 | Paper and machine-made Japanese paper, integrating paper (1521) and machine-made Japanese paper (1523) | 1521 1523 | Paper Machine-made Japanese paper |

(2) Inside classification "19 plastic product manufacturing industry (except for mentioned elsewhere)." About mentioned elsewhere, it is as follows.

| Product | Industry | Product | Industry |
|---|----------|---|-----------|
| Furniture | 1499 | Musical instruments | 3221~3229 |
| Plastic plates | 1641 | Toys, gears for toys, and bearings for toys | 3231 |
| Photographic films, including dry plates | 1795 | Dolls | 3232 |
| Footwear and findings | 2022 | Sporting and athletic goods | 3234 |
| Luggage | 2161 | Office supplies | 3241~3249 |
| Small leather cases | 2171 | Costume jewelry and costume accessories | 3251 |
| Handbags | 2172 | Buttons | 3253 |
| Gears, except gears for watches, clocks and toys | 2675 | Wigs of human hair | 3255 |
| Bearings, except bearings for watches, clocks and toys, ball bearings and roller bearings | 2675 | Lacquer ware | 3261 |
| Bearings (ball and roller bearings) | 2694 | Straw-mats "tatami" | 3272 |
| Resistors for distribution boards | 2713 | Japanese-style fans | 3273 |
| Capacitors, except for telecommunication equipment | 2719 | Brooms and brushes | 3274 |
| Resistors and capacitors for telecommunication equipment | 2914 | Umbrellas, parasols and parts | 3275 |
| Ophthalmic goods | 3161 | Smoking accessories and supplies | 3277 |
| Gears and bearings for watches and clocks | 3171 | Thermos bottles | 3278 |
| Watch cases | 3172 | Signboards and signs | 3292 |
| | | Pallets for transportation | 3293 |
| | | Models and patterns | 3294 |
| | | Pattern manufactured for industrial use | 3295 |
| | | Records | 3296 |

3. Criteria for Classification of Establishments

Establishments are classified by industry with the following criteria of classification.

(1) Common method

With respect to establishments manufacturing a single type of products, industry is classified based on upper four digits of the six-digits commodity number.

On the other hand, concerning establishments engaged in manufacturing of two or more types of products, total shipment values of products sharing the upper two-digits number (major group) are compared, and final two-digits major group classification is collectively represented by the product registering the largest shipment value. Then, three-digits group and four-digits industry classifications are determined in the same way as for two-digits major group classification to come up with the final industrial classification.

(2) Special method

Other than the above, in some cases, industrial classification is determined based on raw materials, work process, and mechanical installations involved.

Such industries are represented by 11 industries classified in "the major group 23 Manufacture of iron and steel " including "Iron industries, with blast furnaces", "Steel manufactured, including converters and electric furnaces and with rolling facilities", "Hot rolling", "Cold rolling, "Cold rolled steel shapes", "Steel pipes and tubes", "Re-rolled steel products", "Cold finished steel bars", "Pipes and tubes drawing", "Wire drawing", "Miscellaneous steel materials, except made by smelting furnaces and steel works with rolling facilities, except coated steel".

4. Items of Statistical Tables

(1) Number of establishments

The 2002 Census represents the number of establishments as of December 31, 2002.

These establishments cover factories, works, plants, etc. engaged in manufacture or processing of industrial products in individual sites.

(2) Number of employees

The 2002 Census represents a total number of regular workers, sole proprietors and unpaid family workers as of December 31, 2002.

"Regular workers" refer to persons who:

- a. are employed on the indefinite or longer than-a-month labor contract,
- b. were employed for 18 days or longer during the previous and current months out of casual hires on a daily or less-than-monthly basis,
- c. are dispatched by temporary employment agencies, and are loaned workers from a parent company, to whom the same rules mentioned above (a,b) are applicable,
- d. work full time and receive monthly remuneration as directors, executives, etc., and
- e. are the family of a solo proprietor and work for him, earning monthly salaries or wages.

"Sole proprietors and unpaid family workers" are defined as sole proprietors engaged in business and their families working full time for them without remuneration. Accordingly, proprietors not practically engaged in business and their dependents providing no more than casual help are not included in this definition.

(3) Value of manufactured goods shipments

Total value of annual income in 2002 from manufactured goods shipment, Processing fees received, Repair fees received, Shipments for scraps and salable refuse from manufacturing process, etc., including internal tax on consumption and consumption tax.

"Manufactured goods shipment" refers to the case where products manufactured by an establishment using its own raw materials (including material-supplied subcontract processing) are delivered by the establishment in 2002, including the following.

- a. Products delivered to other establishments owned by the same enterprise,
- b. Private consumption (consumed by the establishment as end products), and
- c. Shipped on consigned sale (including those shipped but unsold, but excluding those returned in 2002).

"The value of manufactured goods shipments" represents ex-factory shipment price, with following exceptions.

- a. Tax-included ex-factory shipment value in case internal tax on consumption and consumption tax are levied, and
- b. Ex-factory shipment value, less sales discounts or allowances applicable.

"The value of processing fees received" represents payments received and / or receivable against manufacture of end products using client-owned raw materials or against processing or treatment of products or semi-manufactured products owned by the client, during 2002.

"The value of other receipt" refers to proceeds from cold storage, advertisement, sale of privately-generated surplus power, etc.

(4) Industrial Site

Site area of establishments refers to the entire area used (including those rented) by establishments as of December 31, 2002. However, areas used for mining, housing, dormitory, playground, warehouse, other welfare facility, etc. are excluded, providing the areas where manufacturing facilities are located can be clearly separated by roads (public roads), walls, fences, etc.

In addition, areas adjacent to an establishment, which are expected to be used for future expansion and are exclusively occupied by an establishment, are included.

Building area of establishments refers to the entire area where all buildings are located in the site of an establishment.

Areas where buildings are under construction as of December 31, 2002, are also included, if they have already been posted in the Temporary construction accounts.

Total building area of establishments refers to the entire floor area of the floors of all buildings located in an establishment.

(5) Industrial Water

Fresh water is classified as follows:

a. Water used by source

- 1) Public water refers to water let in from industrial water-supply systems or waterworks that are operated by prefecture or municipality.
 - a) Industrial water refers to water let in from water-supply systems (industrial water-supply systems), which supply industrial water inadequate for use as drinking water.
 - b) Waterworks refers to general water supply obtained from water supply (waterworks), which supply drinking water.
- 2) Well water refers to water let in from a shallow well, deep well or water spring.
- 3) Other fresh water refers to other than 1) Public water, 2) Well water, 4) Water recovered, etc. For example, rivers, lakes or storage reservoirs (surface water), infiltration galleries within river terraces and old river area (underflow water), water from agricultural water supply, water from other establishments, etc.
- 4) Water recovered refers to water circulated after the use in an establishment, whether or not it has gone through recovery systems, such as cooling tower, backwater pond, settling pond, and circulation system.

b. Water used by use

- 1) Boiler water is water used to generate steam within the boiler.
- 2) Raw material water is water used as raw materials in the process of manufacturing, or water used additionally as part of raw materials for manufacturing.
- 3) Product processing and cleaning water refer to water used to be applied to physical processes, such as immersion or dissolution of raw materials, semi-manufactured goods, finished goods, etc., or water used to clean facilities, or raw materials and finished products, at a factory.
- 4) Cooling and heating water: Cooling water refers to water used to cool facilities, or raw materials and finished goods, at a factory.
Water for heating or cooling refers to water used to adjust temperature or moisture within a factory.
- 5) Other water refers to drinking water or water for miscellaneous use, other than above items from 1) water for boiler through 5) water for heating and cooling.

Salt water refers to seawater, including water with chloride ion concentration of 200 PPM or more, taken from tidewater of river.

(6) Industrial district

For 236 districts shown in the statistical tables of this Report by Industrial Site and Water, the same districts as those in the Report by Industrial District are selected so that districts in both Reports can be utilized together.

- a. Industrial districts with 200 or more establishments within the districts covered by the Survey for Suitable Site for a Factory, which was conducted by the Ministry of Economy, Trade and Industry in 2002.
- b. Twenty-three wards in Tokyo and Osaka city, of districts designated as a relocation promotion area under the Industrial Relocation Promotion Law (Law No. 73 of 1972).

The selection of industrial districts are reviewed every 10 years, and present industrial districts have been applied since the survey conducted in 2001.

Also changes (consolidation, addition, deletion, etc.) of municipality in industrial districts are also made at the end of December, every year.

5. Representation

In the Outline of this Report, the names of industries are sometimes represented by abbreviation.

| | Formal name of manufacture | Abbreviation | | Formal name of manufacture | Abbreviation |
|----|--|--------------|----|--|--------------------------|
| 09 | Manufacture of food | Food | 23 | Manufacture of iron and steel | Iron & steel |
| 10 | Manufacture of beverages, tobacco and feed | Beverages | 24 | Manufacture of non-ferrous metals and products | Non-ferrous metals |
| 11 | Manufacture of textile mill products | Textile | | | |
| 12 | Manufacture of apparel and other finished products made from fabrics and similar materials | Apparel | 25 | Manufacture of fabricated metal products | Fabricated metal |
| 13 | Manufacture of lumber and wood products | Lumber | 26 | Manufacture of general machinery | General machinery |
| 14 | Manufacture of furniture and fixtures | Furniture | | | |
| 15 | Manufacture of pulp, paper and paper products | Paper & pulp | 27 | Manufacture of electrical machinery, equipment and supplies | Electrical machinery |
| 16 | Publishing, printing and allied industries | Printing | 28 | Manufacture of information and communication electronics equipment | Information machinery |
| 17 | Manufacture of chemical and allied products | Chemical | 29 | Manufacture of electronic parts and device | Electronic parts |
| 18 | Manufacture of petroleum and coal products | Petroleum | 30 | Manufacture of transportation equipment | Transportation equipment |
| 19 | Manufacture of plastic products | Plastic | | | |
| 20 | Manufacture of rubber products | Rubber | 31 | Manufacture of precision instruments and machinery | Precision instruments |
| 21 | Manufacture of leather tanning, leather products and fur skins | Leather | 32 | Miscellaneous manufacturing industries | Miscellaneous |
| 22 | Manufacture of ceramic, stone and clay products | Ceramic | | | |

6. Symbols and Notes

- (1) In this statistical table, the symbol [-] is used where there is no relevant value, and the numerical symbol [0] represents fractions of a unit rounded off, and the symbol [], negative figures. The symbol [] represents figures relating to one or two establishments. Relevant figures are intentionally represented by this symbol to keep individual applicants business secrets confidential to the public. With respect to establishments of three or more, too, numerals relating to three or more factories are represented by this symbol are treated in the same way.
- (2) Values are represented in millions of yen and fractions less than a unit were rounded off, and in thousands of yen with regard to figures in [5. Statistical Table per Establishment and per Employees].

III Special Instructions

1. If these statistical figures are utilized on a chronological basis, it should be noted that the number of manufacturing establishments was identified and amended through the 1998 Census.
2. In the disaster area resulting from the volcanic eruption of Miyake Island, Tokyo, there is no objective establishment.
3. Any person who intends to release these figures in other publications should state the source of information as follows:

The Census of Manufacture (2002 edition) compiled by the Research and Statistics Department, Economic and Industrial Policy Bureau, Ministry of Economy, Trade and Industry.

4. Address your questions or inquiries on this statistics table to:

Industrial Statistics Office, Research and Statistics Department,
Economic and Industrial Policy Bureau, Ministry of Economy, Trade and Industry.
1-3-1, Kasumigaseki, Chiyoda-ku, Tokyo 〒 100-8902
Phone (03) 3501-9929 or 9945 (dial-in)
URL access for statistical information: <http://www.meti.go.jp/english/statistics/>

The Report by Industrial Site and Water of the Census of Manufacture

Section 1. Statistics Tables for Number of Establishments, Number of Employees, Value of Manufactured goods Shipments, Site Area and Building Area of Establishments

1. Statistical Tables by Industry (4-digit industrial subclassification)

| Industries | Number of establishments | Number of employees (persons) | Value of manufactured goods shipments (mil. yen) | Site area of establishments (100 m ²) | Building area of establishments (100 m ²) | Total building area of establishments (100 m ²) |
|------------|--------------------------|----------------------------------|---|--|--|--|
|------------|--------------------------|----------------------------------|---|--|--|--|

This is a single-page table.

For industrial classification, refer to page 34.

2. Statistical Tables by Size of Employees (2-digit industrial classification)

| Industries, Stratum of number of employees | Number of establishments | Number of employees (persons) | Value of manufactured goods shipments (mil. yen) | Site area of establishments (100 m ²) | Building area of establishments (100 m ²) | Total building area of establishments (100 m ²) |
|--|--------------------------|----------------------------------|---|--|--|--|
|--|--------------------------|----------------------------------|---|--|--|--|

This is a single-page table.

For industrial classification, refer to page 34.

The Stratum of number of Employees is represented as follows.

| Stratum of number of employees |
|--------------------------------|
| 30 to 49 |
| 50 to 99 |
| 100 to 199 |
| 200 to 299 |
| 300 to 499 |
| 500 to 999 |
| 1,000 or more (persons) |

3. Statistical Tables by Prefecture (2-digit industrial classification)

| Prefecture and Industries | Number of establishments | Number of employees (persons) | Value of manufactured goods shipments (mil. yen) | Site area of establishments (100 m ²) | Building area of establishments (100 m ²) | Total building area of establishments (100 m ²) |
|---------------------------|--------------------------|----------------------------------|---|--|--|--|
|---------------------------|--------------------------|----------------------------------|---|--|--|--|

This is a single-page table.

For industrial classification, refer to page 34.

4. Statistical Tables by Industrial District (2-digit industrial classification)

| Industrial district and Industries | Number of establishments | Number of employees (persons) | Value of manufactured goods shipments (mil. yen) | Site area of establishments (100 m ²) | Building area of establishments (100 m ²) | Total building area of establishments (100 m ²) |
|------------------------------------|--------------------------|----------------------------------|---|--|--|--|
|------------------------------------|--------------------------|----------------------------------|---|--|--|--|

This is a single-page table.

For industrial classification, refer to page 34.

5. Statistical Tables by Size of Site Area

(1) Number of Establishments by Prefecture (Summary tables)

| Prefectures | Total | Less than 500 m ² | 500 to less than 1,000 m ² | 1,000 to less than 3,000 m ² | 3,000 to less than 5,000 m ² | 5,000 to less than 10,000 m ² | 10,000 to less than 30,000 m ² | 30,000 to less than 100,000 m ² | 100,000 m ² or more |
|-------------|-------|------------------------------|---------------------------------------|---|---|--|---|--|--------------------------------|
|-------------|-------|------------------------------|---------------------------------------|---|---|--|---|--|--------------------------------|

This is a single-page table.

5. Statistical Tables by Size of Site Area

(2) Number of Establishments by Prefecture (2-digit industrial classification)

| Prefectures and Industries | Total | Less than 500 m ² | 500 to less than 1,000 m ² | 1,000 to less than 3,000 m ² | 3,000 to less than 5,000 m ² | 5,000 to less than 10,000 m ² | 10,000 to less than 30,000 m ² | 30,000 to less than 100,000 m ² | 100,000 m ² or more |
|----------------------------|-------|------------------------------|---------------------------------------|---|---|--|---|--|--------------------------------|
|----------------------------|-------|------------------------------|---------------------------------------|---|---|--|---|--|--------------------------------|

This is a single-page table.

For industrial classification, refer to page 34.

5. Statistical Tables by Size of Site Area

(3) Number of Establishments, Number of Employees, Value of manufactured goods Shipments, Site Area and Building Area of Establishments (2-digits industrial classification)

| Industries, Size of Site area | Number of establishments | Number of employees (persons) | Value of manufactured goods shipments (mil. yen) | Site area of establishments (100 m ²) | Building area of establishments (100 m ²) |
|-------------------------------|--------------------------|-------------------------------|--|---|---|
|-------------------------------|--------------------------|-------------------------------|--|---|---|

This is a single-page table.

For industrial classification, refer to page 34.

Sizes of Site area are represented as follows.

| Size of Site area |
|--|
| Less than 500 m ² |
| 500 to less than 1,000 m ² |
| 1,000 to less than 3,000 m ² |
| 3,000 to less than 5,000 m ² |
| 5,000 to less than 10,000 m ² |
| 10,000 to less than 30,000 m ² |
| 30,000 to less than 100,000 m ² |
| 100,000 m ² or more |

5. Statistical Tables by Size of Site Area

(4) Number of Establishments, Number of Employees, Value of Manufactured goods Shipments, Site Area and Building Area of Establishments by Prefecture

| Prefectures, Size of Site area | Number of establishments | Number of employees (persons) | Value of manufactured goods shipments (mil. yen) | Site area of establishments (100 m ²) | Building area of establishments (100 m ²) |
|--------------------------------|--------------------------|-------------------------------|--|---|---|
|--------------------------------|--------------------------|-------------------------------|--|---|---|

This is a single-page table.

For size of Site area, refer to 5. (3) of Section 1.

Section 2. Tables for Number of Establishments, Industrial Water by Source and Industrial Water by Use

1. Statistical Tables by Industry (4-digit industrial subclassification)

| Industries | Number of establishments | Total | Fresh water (cubic meters/day) | | | |
|------------------|--------------------------|-------|--------------------------------|--|------------|--------|
| | | | By source | | | |
| | | | Public water | | Well water | Others |
| Industrial water | Waterworks | | | | | |

| Fresh water (cubic meters/day) | | | | | Salt water (cubic meters/day) | Code of Industries |
|--------------------------------|--------------------|---------------------------------------|---------------------------|--------|-------------------------------|--------------------|
| By use | | | | | | |
| Boiler water | Raw material water | Product processing and cleaning water | Cooling and Heating water | Others | | |

This is a double-page table.

For industrial classification, refer to page 34.

2. Statistical Tables by Number of Employees (2-digit industrial classification)

| Industries stratum of number of employees | Number of establishments | Total | Fresh water (cubic meters/day) | | | |
|---|--------------------------|-------|--------------------------------|--|------------|--------|
| | | | By source | | | |
| | | | Public water | | Well water | Others |
| Industrial water | Waterworks | | | | | |

| Fresh water (cubic meters/day) | | | | | Salt water (cubic meters/day) | Code of Industries |
|--------------------------------|--------------------|---------------------------------------|---------------------------|--------|-------------------------------|--------------------|
| By use | | | | | | |
| Boiler water | Raw material water | Product processing and cleaning water | Cooling and Heating water | Others | | |

This is a double-page table.

For industrial classification, refer to page 34.

For stratum of number of employees, refer to 2. of Section 1.

3. Statistical Tables by Prefecture (2-digit industrial classification)

| Prefecture and Industries | Number of establishments | Total | Fresh water (cubic meters/day) | | | |
|---------------------------|--------------------------|-------|--------------------------------|--|------------|--------|
| | | | By source | | | |
| | | | Public water | | Well water | Others |
| Industrial water | Waterworks | | | | | |

| Fresh water (cubic meters/day) | | | | | Salt water (cubic meters/day) | Code of prefecture and Industries |
|--------------------------------|--------------------|---------------------------------------|---------------------------|--------|-------------------------------|-----------------------------------|
| By use | | | | | | |
| Boiler water | Raw material water | Product processing and cleaning water | Cooling and Heating water | Others | | |

This is a double-page table.

For industrial classification, refer to page 34.

4. Statistical Tables by Industrial District (2-digit industrial classification)

| Industrial district and industries | Number of establishments | Total | Fresh water (cubic meters/day) | | | |
|------------------------------------|--------------------------|-------|--------------------------------|--|------------|--------|
| | | | By source | | | |
| | | | Public water | | Well water | Others |
| Industrial water | Waterworks | | | | | |

| Fresh water (cubic meters/day) | | | | | Salt water (cubic meters/day) | Code of Industrial district and Industries |
|--------------------------------|--------------------|---------------------------------------|---------------------------|--------|-------------------------------|--|
| By use | | | | | | |
| Boiler water | Raw material water | Product processing and cleaning water | Cooling and Heating water | Others | | |

This is a double-page table.

For industrial classification, refer to page 34.

Reference Statistical Tables

Unit Tables of Industrial Water by Industry (4-digit industrial subclassification)

| Industries | Fresh water (cubic meters/day) | | | Salt water (cubic meters/day) | | |
|------------|--|----------------------------------|---|--|----------------------------------|---|
| | Site area of establishments (per 100 m ²) | Regular workers (per workers) | Value of manufactured goods shipments (per 100 mil. yen) | Site area of establishments (par 100 m ²) | Regular workers (per workers) | Value of manufactured goods shipments (per 100 mil. yen) |
| | | | | | | |

This is a single-page table.

For industrial classification, refer to page 34.