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CANADA

OTHER PETROLEUM AND COAL PRODUCTS INDUSTRIES

1961

The list of firms normally included in this report
has been omitted from this issue, along with
certain tables. See introductory text for details.

ANNUAL CENSUS OF MANUFACTURES

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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1961 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Implementation of the new definition of the establishment in the 1961 Census has resulted in certain changes and necessitated some adjustments to the statistics for previous years in order to maintain comparability of the data. (See following note on "Establishment".)

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1961, are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

Many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described earlier.

Prior to 1961, the main emphasis in the Census of Manufactures was on manufacturing activity whereas, beginning with 1961, each establishment reports on the total operations carried out within its accounting boundaries (except income from investments such as rent, interest and dividends). However, data on different activities (manufacturing, selling, construction by own labour force etc.) are requested separately. The 1961 statistics in this report are confined to manufacturing activity in order to maintain comparability with previous years. In the 1962 reports it is planned to show both 1961 and 1962 data on the "total activity" basis in addition to the data on manufacturing operations.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category but will be shown separately in subsequent years.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, handling, warehousing and delivery staff. Employees on new construction work, in retail or wholesale operations, on outside piece work, etc, are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included with salaries, but will be shown separately in subsequent years. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the establishment including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the establishment, of materials, supplies and components actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments generally refer to shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishment for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm which are treated as separate establishments are included. Goods bought or received as transfers and resold without further processing are not included. Values are requested

on f.o.b. establishment basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book value of manufacturing inventory. Figures consist of inventory at the plant and at warehouses or selling outlets which are treated as extensions of the plants for the purpose of reporting shipments.

Value added by Manufacturing

Value added is compiled by deducting the cost of materials, fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process). Value added is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Establishments engaged solely in repair work are not included in manufacturing industries (except in the case of furniture, shipbuilding, boat building, aircraft and railroad rolling stock industries) but establishments principally engaged in assembling parts into complete units are included.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of advertising, insurance and other business costs which are not collected in the annual Census of Manufactures. Value added figures for the primary industries, manufacturing and construction are published in D.B.S. publication 61-202, Survey of Production.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking only for certain principal items of shipments. For purposes of publication, missing data were estimated on the basis of appropriate ratios. For the 1959 and 1960 censuses the general limit for short forms was raised from \$50,000 to \$100,000 value of shipments and a new intermediate form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and inter-

mediate forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

In the 1961 Census, in addition to the question on shipments of goods of own manufacture, questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity, and inventories, are generally estimated by using ratios based on the change in the value of shipments from year to year. This is to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportion of the estimated data is generally less than 5 per cent of the total in each category of principal statistics.

OTHER PETROLEUM AND COAL PRODUCTS

INDUSTRIES

1961

Data presented in this report under the heading of Other Petroleum and Coal Products Industries reflect implementation of the revised Standard Industrial Classification and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of 1961 industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report. For statistical purposes the industry titled Other Petroleum and Coal Products Industries in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing petroleum and coal products not elsewhere classified such as fuel briquettes, road emulsions and roofing compounds. This industry also includes coking plants operated as separate establishments and not as a subsidiary activity in Iron and Steel or Chemical plants.

The introduction of the new definition of establishment (reporting unit) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. In the case of the industry under review Table 1 B reflects the adjustments on account of the new concept changes, for the years 1957 to 1961.

As a result of increased work loads and staff shortages it has been necessary to suspend publication of certain tables normally contained in the reports issued in the Census of Manufactures. It is planned to resume publication of these tables in the 1962 reports. In general the tables affected are the following: Directory of Firms—Imports—Exports—Capital and Repair Expenditures—Factory Shipments (from All Industries).

TABLE 1 A. Principal Statistics of the Miscellaneous Products of Petroleum and Coal Industry, Significant years 1954 - 59, and by Provinces, 1958 and 1959

Basis: Standard Industrial Classification prior to 1960

Year and province	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Value of factory shipments
	number		dollars				
1954	17	324	1,068,736	143,687	2,849,602	3,706,760	6,732,265
1955	20	410	1,362,789	192,440	3,668,730	4,140,450	8,098,862
1956	21	426	1,565,988	232,455	4,742,122	4,897,091	9,742,729
1957	20	406	1,621,972	233,971	5,239,746	5,227,540	10,618,418
1958	28	482	1,974,812	347,391	8,264,800	6,281,788	14,971,584
1959	30	462	2,000,636	327,083	7,832,195	6,676,320	14,684,752
1958							
Ontario	10	255	1,117,671	131,546	4,607,146	4,130,541	8,884,992
Other provinces	18	227	857,141	215,845	3,657,654	2,151,247	6,086,592
Canada	28	482	1,974,812	347,391	8,264,800	6,281,788	14,971,584
1959							
Ontario	11	245	1,160,615	132,628	4,773,889	4,584,054	9,341,726
Other provinces	19	217	840,021	194,455	3,058,306	2,092,266	5,343,026
Canada	30	462	2,000,636	327,083	7,832,195	6,676,320	14,684,752

TABLE 1 B. Principal Statistics, Other Petroleum and Coal Products Industries, By Provinces, 1957 - 61

Basis: Standard Industrial Classification and New Establishment Concept

Province	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
	number		dollars				
1957							
Quebec	6	97	395,324	84,218	697,031		1,541,984
Ontario	9	485	1,981,239	489,275	6,911,863		12,376,914
Alberta	5	35	90,428	21,933	151,193		310,020
Other Provinces	9	458	1,694,682	814,743	2,532,355		5,199,563
Canada	29	1,075	4,161,673	1,410,169	10,292,442		19,428,481
1958							
Quebec	7	94	370,729	125,554	1,117,063	1,068,727	2,296,820
Ontario	12	458	2,003,865	309,712	7,151,994	5,269,245	12,644,710
Alberta	7	48	184,598	36,958	1,016,790	397,889	1,450,900
Other Provinces	11	180	681,391	627,516	3,020,329	1,552,081	5,532,401
Canada	37	780	3,240,583	1,099,740	12,306,176	8,287,942	21,924,831
1959							
Quebec	6	49	206,075	107,735	644,939	481,555	1,232,886
Ontario	10	360	1,690,667	413,830	5,744,023	4,871,991	11,027,355
Alberta	7	34	98,656	28,338	647,284	203,029	898,919
Other Provinces	9	126	528,358	465,168	1,752,497	1,247,456	3,480,778
Canada	32	569	2,523,756	1,015,091	8,788,743	6,804,031	16,639,938
1960							
Quebec	6	80	351,760	63,392	1,203,443	1,428,397	2,701,834
Ontario	9	256	1,222,908	156,904	4,663,600	4,742,041	9,534,953
Alberta	10	40	123,668	47,221	518,690	224,189	789,037
Other Provinces	10	160	678,576	109,126	1,780,780	1,576,937	3,534,693
Canada	35	536	2,376,912	376,643	8,166,513	7,971,564	16,560,517
1961							
Quebec	7	88	396,446	89,250	1,948,851	1,767,594	3,828,463
Ontario	9	253	1,235,415	141,848	4,411,923	5,080,093	9,739,516
Alberta	8	43	131,170	46,936	425,397	250,710	718,832
Other Provinces	10	158	736,832	105,151	2,200,212	1,808,668	4,278,551
Canada	34	542	2,499,863	383,185	8,986,383	8,907,065	18,565,362

¹ Value added figures on a revised basis are not available for 1957.

TABLE 2. Inventories,¹ Other Petroleum and Coal Products Industries, 1961

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Quebec	400,251	—	138,371	538,622
Ontario	455,654	2,000	815,047	1,272,701
Alberta	43,830	—	15,403	59,233
Other Provinces	167,088	—	490,573	657,661
Canada	1,066,823	2,000	1,459,394	2,528,217
Closing:				
Quebec	320,679	—	115,603	436,282
Ontario	372,644	1,000	710,395	1,084,039
Alberta	49,118	—	19,614	68,732
Other Provinces	133,467	—	326,053	459,520
Canada	875,908	1,000	1,171,665	2,048,573

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Other Petroleum and Coal Products Industries, 1961

Product	Quantity	Selling value of factory shipments
		\$
Asphalt road emulsions Imp. gal.	18,864,343	4,121,367
Asphalt paving mixtures ton	706,369	3,688,232
Asphalt and bituminous coatings "	4,368	1,049,043
Coal briquettes "	69,672	1,234,084
All other products ¹ .....	...	8,478,326
Total .....	...	18,571,052
Less adjustment for value of sales taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above .....	...	5,690
Total .....	...	18,565,362

¹ Includes wood preserver, furnace cement, asphalt tile, asphalt plank and other products made by less than three firms.

TABLE 4. Materials Used: Other Petroleum and Coal Products Industries, 1961

Material	Quantity	Cost at plant
		\$
Asbestos ton	2,820	121,608
Asphalt Imp. gal.	18,529,652	2,403,669
Coal (not for fuel):		
Bituminous—From Canadian mines ton	233,835	1,426,055
Lignite "	76,380	158,760
Gas oil Imp. gal.	46,530	7,455
Sand ton	266,954	332,818
Stone ton	363,048	531,544
Talc ton	1,807	63,982
All other materials ¹ .....	..	3,453,776
Containers and packaging materials .....	..	486,716
Total .....	...	8,986,383

¹ No detailed information on materials used was collected from small establishments. The estimated value of materials used by these establishments was \$235,000 in 1961 and this amount is included in "All other materials". The value of shipments actually reported by these small establishments was \$413,886.

TABLE 5. Principal Statistics classified according to Type of Ownership: Other Petroleum and Coal Products Industries, 1961

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
Individual ownership	2	542	2,499,863	8,966,383	18,565,362
Incorporated companies	32				
Totals	34	542	2,499,863	8,986,383	18,565,362

TABLE 6. Principal Statistics grouped according to Selling Value of Factory Shipments: Other Petroleum and Coal Products Industries, 1961

Establishments reporting factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
Under \$10,000	3	3	13,505	1,424	13,141
\$ 10,000 to \$ 24,999	3	16	45,346	66,355	126,773
25,000 " 49,999	2				
50,000 " 99,999	7	51	207,069	283,228	834,571
100,000 " 199,999	2				
200,000 " 499,999	9	82	334,989	1,653,907	3,042,148
500,000 " 999,999	3	74	363,370	940,200	2,076,705
1,000,000 " 4,999,999	4	312	1,493,424	6,041,269	12,472,024
5,000,000 and over	1				
Head offices	—	4	42,160	—	—
Totals	34	542	2,499,863	8,986,383	18,565,362

TABLE 7. Employees and their Earnings: Other Petroleum and Coal Products Industries, 1961

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
Quebec	31	5	52	—	88	176,900	219,546	396,446
Ontario	85	27	141	—	253	583,474	651,941	1,235,415
Alberta	6	1	36	—	43	38,543	92,627	131,170
Other provinces	17	3	138	—	158	135,325	601,507	736,832
Canada	139	36	367	—	542	934,242	1,565,621	2,499,863

TABLE 8. Production Workers, by Months: Other Petroleum and Coal Products Industries, 1961

Month	Male	Female
January	312	—
February	315	—
March	334	—
April	389	—
May	416	—
June	412	—
July	402	—
August	394	—
September	380	—
October	372	—
November	342	—
December	322	—
Average	367	—

TABLE 9. Fuel and Electricity Used: Other Petroleum and Coal Products Industries, 1961

Kind	Quantity	Cost at plant
		\$
Bituminous coal-imported ton	286	4,011
Sub-bituminous coal (from Alberta mines only) "	766	5,362
Gasoline (including gasoline used in cars and trucks) Imp. gal.	85,724	26,732
Fuel oil including kerosene or coal oil "	598,724	75,518
Gas (a) Liquefied petroleum gases "	6,748	1,518
(b) Natural gas M cu. ft.	156,674	77,177
Other fuel .....	..	32,105
Electricity purchased kwh.	12,011,612	144,065
Steam purchased	16,697
Total	383,185

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