

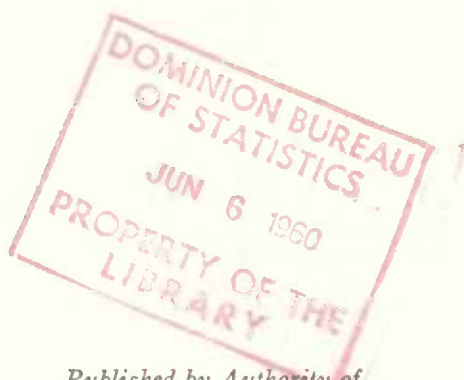
CATALOGUE No.

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ANNUAL



THE MISCELLANEOUS PRODUCTS OF PETROLEUM
AND COAL INDUSTRY
1958



Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries in the **Products Made from Petroleum and Coal** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A — Annual
S.A. — Semi-Annual

M — Monthly
O — Occasional

S.C. — Special
Compilation

Catalogue number	Title	Price
45-201	Products of Petroleum and Coal — General Review (A)50
45-203	Coke and Gas Industry (A).....	.50
45-205	Petroleum Products Industry (A).....	.50
45-207	Miscellaneous Products of Petroleum and Coal Industry (A)25
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26-003	Preliminary Report on Coal Production (M)..... per year	1.00
26-206	Coal Mining Industry (A)	1.00
45-202	Preliminary Report on Coal and Coke Statistics (A)50
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13-506	Energy Sources in Canada, Commodity Accounts, 1948 and 1952 (O).....	1.00
55-001	Pipe Line (Oil) Statistics (M)	per year 2.00
55-201	Pipe Line (Oil) Statistics (A)50
31-201	General Review of the Manufacturing Industries (A)	2.00
31-001	Inventories, Shipments and Orders in Manufacturing Industries (M)	per year 4.00
65-004	Trade of Canada — Exports (M).....	per year 7.50
65-007	Trade of Canada — Imports (M)	per year 7.50
(S.C.)	Sales of Lubricating Oils and Greases and Motor Gasoline (A)25
(S.C.)	Retail Outlets for Motor Gasoline (S.A.)25

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 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. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

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 1958, 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

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

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.

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, warehousing and delivery staffs. 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 calendar years 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 but not their withdrawals for income tax. 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 works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies 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 of 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 refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant 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 are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse 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 values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished

goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at \$50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

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 office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the Annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

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.

THE MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL INDUSTRY

1958

The standard Industrial Classification adopted by the Dominion Bureau of Statistics in 1949 provides for a new group, the Miscellaneous Products of Petroleum and Coal Industry, for the first time. However, because of the small number of firms involved, no attempt was made to develop an industry grouping for statistical purposes until 1952. The group as now established includes firms, formerly classified in the Miscellaneous Non-Metallic Mineral Products Industry, which are primarily engaged in manufacturing products of petroleum and coal, not elsewhere classified, including fuel briquettes, asphalt and tar paving materials and roofing coatings.

In 1958 there were 28 operating plants in this miscellaneous industry. Factory shipments from these works were valued at \$14,971,584 in 1958. Employment was afforded to 482 people who were

paid \$1,974,812 in salaries and wages. Materials for use in manufacturing processes cost \$8,264,800 while fuel and electricity cost \$347,391.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouses.

TABLE 1. Principal Statistics of the Miscellaneous Products of Petroleum and Coal Industry, 1953-56, and by Provinces, 1957 and 1958

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 ¹	Value of factory shipments ¹
	number		dollars				
1953	17	299	1,043,817	127,953	2,519,652	3,132,085	5,779,690
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							
Ontario	8	246	1,021,683	112,357	3,973,469	3,928,404	7,966,357
Other provinces	12	160	600,289	121,614	1,266,277	1,299,136	2,652,061
Canada	20	406	1,621,972	233,971	5,239,746	5,227,540	10,618,418
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

¹ See note to text.

TABLE 2. Inventories,¹ 1958

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Ontario	314,032	2,140	455,121	771,293
Other provinces	215,124	13,498	224,502	453,124
Canada	529,156	15,638	679,623	1,224,417
Closing:				
Ontario	398,099	3,000	438,502	839,601
Other provinces	664,506	7,507	168,647	840,660
Canada	1,062,605	10,507	607,149	1,680,261

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

Note: (a) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Miscellaneous Products of Petroleum and Coal Industry for the year under review are shown in the above table.

(b) The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry such as: the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for value added by manufacture for the previous year does not need to be altered because of such changes in the composition of the industry.

TABLE 3. Products Made in the Miscellaneous Products of Petroleum and Coal Industry, 1957 and 1958

Product	1957 ¹		1958	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Asphalt road emulsions Imp. gal.	16,344,369	3,225,683	21,182,714	4,472,482
Asphalt paving mixtures ton	160,280	1,129,576	384,603	2,395,302
Asphalt and bituminous coatings Imp. gal.	6,023,658	2,691,713	5,028,914	2,281,129
Coal briquettes ton	..	..	199,231	2,004,295
All other products ² .....	...	3,571,446	...	3,818,376
Total .....	...	10,618,418	...	14,971,584

¹ 1957 figures have been revised.

² Includes wood preserver, furnace cement, asphalt tile, asphalt plank and other products made by less than three firms.

TABLE 4. Materials Used in the Miscellaneous Products of Petroleum and Coal Industry, 1957 and 1958

Materials	1957		1958	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Asphalt Imp. gal.	8,618,153	1,356,412	20,690,455	3,091,971
Asbestos lb.	6,601,978	137,784	7,384,000	167,156
Shipping containers and packing materials .....	...	420,637	...	406,034
All other materials and process supplies .....	...	3,324,913	...	4,599,639
Total .....	...	5,239,746	...	8,264,800

TABLE 5. Principal Statistics of the Miscellaneous Products of Petroleum and Coal Industry in Canada, Grouped according to Selling Value of Factory Shipments, 1957 and 1958

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	
1957					
Under \$10,000	1	8	18,705	31,126	56,879
\$10,000 to \$24,999	3				
\$50,000 to \$99,999	3	14	49,197	121,586	219,267
\$100,000 to \$199,999	4	58	212,821	290,537	601,267
\$200,000 to \$499,999	3	32	95,868	446,794	779,779
\$500,000 to \$999,999	4	291	1,208,404	4,349,703	8,961,226
\$1,000,000 to \$4,999,999	2				
Head offices	—	3	36,977	—	—
Total	20	406	1,621,972	5,239,746	10,618,418
1958					
Under \$100,000	6	20	66,013	148,162	243,436
\$100,000 to \$199,999	5	42	167,865	397,307	820,887
\$200,000 to \$499,999	6	36	132,505	1,240,949	1,729,793
\$500,000 and over	11	381	1,562,904	6,478,382	12,177,468
Head offices	—	3	45,525	—	—
Total	28	482	1,974,812	8,264,800	14,971,584

TABLE 6. Principal Statistics Classified according to Type of Ownership, 1957 and 1958

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number			dollars	
1957					
Individual ownership	1	406	1,621,972	5,239,746	10,618,418
Incorporated companies	19				
Total	20	406	1,621,972	5,239,746	10,618,418
1958					
Partnership	2	12	44,423	383,074	557,480
Individual ownership	1				
Incorporated companies	25	470	1,930,389	7,881,726	14,414,104
Total	28	482	1,974,812	8,264,800	14,971,584

TABLE 7. Employees and their Earnings in the Miscellaneous Products of Petroleum and Coal Industry, 1957 and 1958

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1957								
Ontario.....	73	40	132	1	246	481,783	539,900	1,021,683
Other provinces	34	7	119	—	160	192,668	407,621	600,289
Canada	107	47	251	1	406	674,451	947,521	1,621,972
1958								
Ontario.....	84	43	128	—	255	568,079	549,592	1,117,671
Other provinces	51	10	166	—	227	281,966	575,175	857,141
Canada	135	53	294	—	482	850,045	1,124,767	1,974,812

TABLE 8. Production Workers in the Miscellaneous Products of Petroleum and Coal Industry, by Months, 1957 and 1958

Month	1957			1958		
	Male	Female	Total	Male	Female	Total
	number					
January	194	1	195	216	—	216
February	194	1	195	206	—	206
March	222	1	223	229	—	229
April.....	237	1	238	281	—	281
May.....	274	1	275	311	—	311
June	310	1	311	327	—	327
July	282	1	283	326	—	326
August	277	1	278	351	—	351
September	270	1	271	360	—	360
October	277	1	278	372	—	372
November.....	271	1	272	306	—	306
December.....	200	1	201	288	—	288
Average	251	1	252	294	—	294

TABLE 9. Capital and Repair Expenditures in the Miscellaneous Products of Petroleum and Coal Industry, 1954-58

Year	Capital expenditures		Sub-total	Repair and main-tenance expenditures		Sub-total	Total capital and repair expenditures
	Construc-tion	Machinery and equipment		Construc-tion	Machinery and equipment		
	thousands of dollars						
1954	6	135	141	14	145	159	300
1955	19	265	284	23	226	249	533
1956	477	282	759	34	211	245	1,004
1957	1,041	482	1,523	74	199	273	1,796
1958	420	226	646	97	221	318	964

Note: Figures for the current year are preliminary.

TABLE 10. Fuel and Electricity Used in the Miscellaneous Products of Petroleum and Coal Industry, 1957 and 1958

	1957		1958	
	Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal (a) From Canadian mines	ton	377	5,659	—
(b) Imported	"	624	8,263	256
Anthracite coal	"	11	103	11
Lignite coal	"	16	170	—
Coke	"	540	6,476	388
Gasoline (including gasoline used in cars and trucks) — Imp. gal.	100,998	39,430	102,336	39,081
Fuel oil	"	415,281	55,440	874,031
Gas (a) Liquefied petroleum gases	"	600	200	150
(b) Natural gas	M cu. ft.	48,168	39,431	—
Other fuel .....	...	27,588	...	32,593
Electricity purchased	kwh.	4,287,782	51,211	5,119,961
Steam purchased .....	...	..	...	12,000
Total .....	...	233,971	...	347,391

TABLE 11. Total Horsepower Rating of Power Equipment in Use or Available for Use at the end of 1958

Type of equipment	Driving generators	Not driving generators
horsepower		
A. Prime movers		
1. Steam engines	100	11
2. Steam turbines	—	651
3. Diesel engines	88	101
4. Gasoline, gas and oil engines, other than diesel engines	—	300
Total	188	1,063
B. Electric motors (one-quarter horsepower and over) .....	...	2,864

List of Firms in the Miscellaneous Products of Petroleum and Coal Industry, 1958

Name of firm	Location of plant
Newfoundland:	
Newfoundland Hardwoods Limited	Clareville
Quebec:	
Canadian Bitumuls Company Limited	11451 Sherbrooke St. E., Montreal East 5
Cie D'Asphalte Laurentien Inc.	St. Jérôme
Flintkote Company of Canada Limited, The	5th Ave. and Canal Bank, Ville St. Pierre
La Salle Asphalte Ltée	La Sute, Ste Foy
Plas-Ti-Co, Products Mfg. Reg'd.	160 Ozaman, Québec
Quebec Asphalt Inc.	2260 Rue Des Carrières, Montreal
Ontario:	
Asphalt & Bituminous Supplies Ltd.	Bridgeport
Canadian Bitumuls Company Limited	43 Industrial St., Leaside, Toronto 17
Flintkote Company of Canada Limited, The	30th Street, Long Branch
Insul-Mastic Eastern Limited	1454 Bloor St. W., Toronto
Mixed Asphalt & Contractor's Supplies Ltd.	501 Main St. W., Hamilton
Koppers Products Ltd.	Port Arthur
Panther Oil & Grease Mfg. Co. of Canada Ltd.	25 Industrial St., Leaside, Toronto 17
Toro Asphalt Co.	1117 Castlefield Ave., Toronto
Universal Asphalt & Mastic Products Ltd.	14 Eugene St., Toronto
Western Asbesphalt Ltd.	951 Roselawn Ave., Toronto
Manitoba:	
Insul-Mastic Corporation Limited	1400 Spruce St., Winnipeg
Pounder, T.J. & Co. Ltd.	1474 Wall St., Winnipeg
Saskatchewan:	
Canadian Bitumuls Company Limited	Arcola and Reynolds St., Regina
Dominion Briquettes and Chemicals Ltd.	Bienfait
Alberta:	
Canmore Mines Ltd.	Canmore
Coleman, Briquettes Ltd.	Coleman
Dominion Products Company Ltd.	Lloydminster
Elsro Asphalt Ltd.	Lloydminster
British Columbia:	
Crow's Nest Pass Coal Co. Ltd.	Michel
Hoban Construction	15945-112 Ave., North Surrey

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