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# PRODUCTS OF PETROLEUM AND COAL

General Review

1958



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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.

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**S.A. — Semi-Annual**

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## 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.<sup>1</sup>

### 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.

<sup>1</sup> 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*.

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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.



# PRODUCTS OF PETROLEUM AND COAL

## General Review

1958

The Standard Industrial Classification which has been used by the Dominion Bureau of Statistics in its compilations since 1949 provides for a separate "Products of Petroleum and Coal" group. This major division includes the petroleum products industry, the coke and gas industry and a miscellaneous industry which were classified, in earlier years, to the manufactures of the Non-metallic Mineral Products Group.

The gross value of production from the industries in this group was \$515,473,433 in 1958 a decrease of 3.5 per cent from the \$534,432,951 reported in 1957. Employment decreased slightly to 17,427 in 1958 from the 17,757 reported in 1957. Payments in salaries and wages advanced to \$89.5 millions. Materials for manufacturing cost \$894.5 millions in 1958 and fuel and electricity cost \$56.4 millions; in the previous year the corresponding amounts were \$898.8 millions and \$59.1 millions.

Note: In 1952 the gross value of production was replaced by value of factory shipments f.o.b. plant for all the industries classified to this group except for Petroleum Refining and Coke and Gas. As no information on inventory change is available for 1953, value added figures for this year were obtained by subtracting from the value of factory shipments (Production in the case of Petroleum Refining and Coke and Gas) the cost of materials, fuel and electricity. In 1954 and subsequent years information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and except for Petroleum Refining and Coke and Gas, the information thus made available was taken into account in calculating the value added figures. 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 warehouse.

TABLE 1. Principal Statistics for the Products of Petroleum and Coal Group, by Industries and by Provinces, 1957 and 1958

Industry and province	Estab- lish- ments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Value added by manufacture <sup>1</sup>
	number				dollars		
<b>1957</b>							
By industries:							
Coke and gas .....	22	3,043	13,178,728	6,452,603	66,119,868	104,748,657	32,176,186
Petroleum products .....	64	14,308	73,887,074	52,398,424	827,470,815	1,376,558,762	497,029,225
Miscellaneous products of petroleum and coal .....	20	406	1,621,972	233,971	5,239,746	10,618,418	5,226,540
<b>Totals .....</b>	<b>106</b>	<b>17,757</b>	<b>88,687,774</b>	<b>59,084,998</b>	<b>898,830,429</b>	<b>1,491,925,837</b>	<b>534,432,951</b>
<b>1958</b>							
Coke and gas .....	16	2,455	10,871,876	5,001,223	56,272,204	82,788,690	21,515,263
Petroleum products .....	71	14,490	76,643,818	51,052,196	829,920,509	1,368,649,087	487,676,382
Miscellaneous products of petroleum and coal .....	28	482	1,974,812	347,391	8,264,800	14,971,584	6,281,788
<b>Totals .....</b>	<b>115</b>	<b>17,427</b>	<b>89,490,506</b>	<b>56,400,810</b>	<b>894,457,513</b>	<b>1,466,409,361</b>	<b>515,473,433</b>
<b>1957</b>							
By provinces:							
Newfoundland .....	1	795	4,159,028	5,005,575	56,354,896	92,835,125	31,466,920
Nova Scotia .....	2						
New Brunswick .....	1						
Quebec .....	18	3,527	18,410,567	21,470,578	311,760,721	521,341,817	188,382,503
Ontario .....	33	7,396	37,586,061	18,135,300	277,791,618	441,814,132	145,778,046
Manitoba .....	6	988	3,952,585	2,365,629	32,203,109	56,453,688	21,900,948
Saskatchewan .....	12	1,274	6,142,133	3,466,512	57,801,721	90,339,371	29,060,777
Alberta .....	25	2,232	10,969,043	4,271,807	83,582,424	147,672,293	60,079,883
British Columbia .....	7	1,545	7,468,357	4,369,597	79,335,940	141,469,411	57,763,874
Northwest Territories .....	1						
<b>Canada .....</b>	<b>106</b>	<b>17,757</b>	<b>88,887,774</b>	<b>59,084,998</b>	<b>898,830,429</b>	<b>1,491,925,837</b>	<b>534,432,951</b>
<b>1958</b>							
Newfoundland .....	1	784	4,142,407	4,301,359	57,004,614	92,996,590	31,699,374
Nova Scotia .....	2						
New Brunswick .....	1						
Quebec .....	19	3,581	18,248,651	17,119,969	288,376,128	483,720,411	178,238,838
Ontario .....	32	7,154	37,487,663	20,228,858	299,907,424	457,314,090	137,162,049
Manitoba .....	6	726	3,035,237	2,128,148	34,520,797	57,632,093	20,983,206
Saskatchewan .....	13	1,218	6,019,155	2,940,903	50,631,451	83,164,169	29,505,893
Alberta .....	27	2,251	11,676,035	4,287,581	82,540,811	151,438,143	64,610,488
British Columbia .....	13	1,713	8,881,358	5,393,992	81,476,288	140,143,885	53,273,585
Northwest Territories .....	1						
<b>Canada .....</b>	<b>115</b>	<b>17,427</b>	<b>89,490,506</b>	<b>56,400,810</b>	<b>894,457,513</b>	<b>1,466,409,361</b>	<b>515,473,433</b>

<sup>1</sup> See note to text.

TABLE 2. Employees and their Earnings in the Products of Petroleum and Coal Group, 1957 and 1958

Industry and province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
	number					dollars		
1957								
By industries:								
Coke and gas .....	524	164	2,353	2	3,043	2,821,106	10,357,622	13,178,728
Petroleum products .....	4,466	1,411	8,364	67	14,308	32,863,834	41,023,240	73,887,074
Miscellaneous products of petroleum and coal .....	107	47	251	1	406	674,451	947,521	1,621,972
Totals .....	5,097	1,622	10,968	70	17,757	36,359,391	52,328,383	88,687,774
By provinces:								
Newfoundland .....	126	21	646	2	795	916,490	3,242,538	4,159,028
Nova Scotia .....								
New Brunswick .....								
Quebec .....	890	153	2,475	9	3,527	5,900,242	12,510,325	18,410,567
Ontario .....	2,427	923	4,014	32	7,396	18,221,552	19,364,509	37,586,061
Manitoba .....	291	190	502	5	988	2,059,894	1,892,691	3,952,585
Saskatchewan .....	315	72	886	1	1,274	2,066,307	4,075,826	6,142,133
Alberta .....	573	154	1,495	10	2,232	4,059,904	6,909,139	10,969,043
British Columbia .....	475	109	950	11	1,545	3,135,002	4,333,355	7,468,357
Northwest Territories .....								
Canada .....	5,097	1,622	10,968	70	17,757	36,359,391	52,328,383	88,687,774
1958								
By industries:								
Coke and gas .....	378	145	1,932	—	2,455	2,152,368	8,719,508	10,871,876
Petroleum products .....	4,744	1,483	8,203	60	14,490	35,786,891	40,856,927	76,643,818
Miscellaneous products of petroleum and coal .....	135	53	294	—	482	850,045	1,124,767	1,974,812
Totals .....	5,257	1,681	10,429	60	17,427	38,789,304	50,701,202	89,490,506
By provinces:								
Newfoundland .....	126	23	633	2	784	909,159	3,233,248	4,142,407
Nova Scotia .....								
New Brunswick .....								
Quebec .....	994	177	2,402	8	3,581	6,645,890	11,602,761	18,248,651
Ontario .....	2,492	980	3,653	29	7,154	19,378,937	18,108,726	37,487,663
Manitoba .....	191	165	367	3	726	1,556,341	1,478,896	3,035,237
Saskatchewan .....	308	58	850	2	1,218	2,063,642	3,955,513	6,019,155
Alberta .....	615	159	1,472	5	2,251	4,596,290	7,079,745	11,676,035
British Columbia .....	531	119	1,052	11	1,713	3,639,045	5,242,313	8,881,358
Northwest Territories .....								
Canada .....	5,257	1,681	10,429	60	17,427	38,789,304	50,701,202	89,490,506



TABLE 3. Production and Related Workers (Wage-earners) in the Products of Petroleum and Coal Group, 1957 and 1958

Industry and province	January	February	March	April	May	June	July	August	September	October	November	December	Average of year
	number												
<b>1957</b>													
By industries:													
Coke and gas .....	2,306	2,333	2,364	2,328	2,346	2,425	2,442	2,426	2,393	2,325	2,320	2,199	2,355
Petroleum products .....	8,180	8,219	8,328	8,354	8,701	8,798	8,851	8,764	8,381	8,217	8,151	8,184	8,431
Miscellaneous products of petroleum and coal .....	195	195	223	238	275	311	283	278	271	278	272	201	252
<b>Totals .....</b>	<b>10,681</b>	<b>10,747</b>	<b>10,015</b>	<b>10,020</b>	<b>11,322</b>	<b>11,534</b>	<b>11,576</b>	<b>11,468</b>	<b>11,045</b>	<b>10,820</b>	<b>10,743</b>	<b>10,584</b>	<b>11,038</b>
By provinces:													
Newfoundland .....	632	630	636	638	638	649	664	662	646	658	677	643	648
Nova Scotia .....													
New Brunswick .....													
Quebec .....	2,398	2,430	2,430	2,409	2,535	2,577	2,585	2,567	2,485	2,504	2,434	2,436	2,484
Ontario .....	3,931	3,966	4,040	4,032	4,175	4,240	4,234	4,224	4,062	3,882	3,917	3,816	4,046
Manitoba .....	478	477	475	489	497	517	563	534	532	522	502	474	507
Saskatchewan .....	866	861	856	871	924	935	947	931	893	870	851	838	887
Alberta .....	1,440	1,452	1,517	1,536	1,548	1,577	1,560	1,562	1,493	1,470	1,444	1,457	1,505
British Columbia .....	937	931	961	945	1,005	1,039	1,023	988	934	914	920	919	961
Northwest Territories .....													
<b>Canada .....</b>	<b>10,681</b>	<b>10,747</b>	<b>10,015</b>	<b>10,020</b>	<b>11,322</b>	<b>11,534</b>	<b>11,576</b>	<b>11,468</b>	<b>11,045</b>	<b>10,820</b>	<b>10,743</b>	<b>10,584</b>	<b>11,038</b>
<b>1958</b>													
By industries:													
Coke and gas .....	2,045	2,015	1,984	2,009	1,967	1,969	2,015	1,704	1,746	1,760	2,056	1,922	
Petroleum products .....	8,295	8,234	8,270	8,375	8,456	8,531	8,495	8,355	8,122	8,046	7,984	7,964	
Miscellaneous products of petroleum and coal .....	216	206	229	281	311	327	326	351	360	372	306	268	
<b>Totals .....</b>	<b>10,556</b>	<b>10,455</b>	<b>10,483</b>	<b>10,665</b>	<b>10,734</b>	<b>10,827</b>	<b>10,836</b>	<b>10,410</b>	<b>10,228</b>	<b>10,178</b>	<b>10,346</b>	<b>10,154</b>	
By provinces:													
Newfoundland .....	627	626	608	612	621	639	649	670	684	675	621	586	
Nova Scotia .....													
New Brunswick .....													
Quebec .....	2,473	2,433	2,403	2,428	2,412	2,438	2,422	2,419	2,371	2,385	2,386	2,353	
Ontario .....	3,795	3,728	3,776	3,837	3,799	3,799	3,823	3,494	3,442	3,441	3,660	3,585	
Manitoba .....	348	350	348	352	377	429	412	376	369	361	357	355	
Saskatchewan .....	822	826	825	862	907	902	901	860	830	840	833	820	
Alberta .....	1,482	1,484	1,486	1,497	1,518	1,509	1,515	1,504	1,487	1,453	1,417	1,387	
British Columbia .....	1,009	1,008	1,035	1,077	1,100	1,111	1,114	1,089	1,044	1,023	1,072	1,068	
Northwest Territories .....													
<b>Canada .....</b>	<b>10,556</b>	<b>10,455</b>	<b>10,483</b>	<b>10,665</b>	<b>10,734</b>	<b>10,827</b>	<b>10,836</b>	<b>10,410</b>	<b>10,228</b>	<b>10,178</b>	<b>10,346</b>	<b>10,154</b>	

Note: Data for 1958 are not strictly comparable with those for previous years since they relate only to establishments generally reporting value of factory shipments of \$100,000 and over. For the total average number of production workers (including estimate for small firms) see Table 2.



TABLE 4. Inventories<sup>1</sup> in the Products of Petroleum and Coal Group, 1958

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
(a) By sub-groups				
Opening:				
Petroleum refining.....	40,473,319	17,940,072	116,385,659	174,799,050
Lubricating oils and greases.....	2,147,440	557,428	602,640	3,307,508
Absorption gasoline.....	7,429	6,559	375,657	389,645
Coke and gas.....	21,715,437	220,677	1,371,991	23,308,105
Miscellaneous products of petroleum and coal.....	529,156	15,638	679,623	1,224,417
Totals.....	64,872,781	18,740,374	119,415,570	203,028,725
Closing:				
Petroleum refining.....	42,741,856	15,957,138	100,842,940	159,541,934
Lubricating oils and greases.....	665,737	1,675,759	764,407	3,105,903
Absorption gasoline.....	8,723	2,518	1,480,369	1,491,610
Coke and gas.....	18,911,178	149,101	2,187,282	21,247,561
Miscellaneous products of petroleum and coal.....	1,062,605	10,507	607,149	1,680,261
Totals.....	63,390,099	17,795,023	105,882,147	187,067,269
(b) By provinces				
Opening:				
Newfoundland.....	2,554,389	1,103,241	6,447,963	10,105,593
Nova Scotia.....				
New Brunswick.....				
Quebec.....	17,892,773	3,625,909	40,554,192	62,072,874
Ontario.....	34,114,304	9,212,125	33,121,083	76,447,512
Manitoba.....	875,782	196,153	6,183,623	7,255,558
Saskatchewan.....	2,145,471	738,643	11,871,857	14,755,971
Alberta.....	1,877,987	2,373,818	13,007,334	17,259,139
British Columbia.....	5,412,075	1,490,485	8,229,518	15,132,078
Northwest Territories.....				
Totals.....	64,872,781	18,740,374	119,415,570	203,028,725
Closing:				
Newfoundland.....	2,965,908	803,110	6,797,845	10,566,863
Nova Scotia.....				
New Brunswick.....				
Quebec.....	23,000,819	4,389,224	32,532,810	59,922,653
Ontario.....	29,060,659	7,691,615	29,251,843	66,004,117
Manitoba.....	981,128	384,242	5,821,919	7,187,289
Saskatchewan.....	1,760,792	1,263,068	8,369,742	11,393,602
Alberta.....	1,942,785	1,372,715	11,159,844	14,475,344
British Columbia.....	3,678,008	1,891,049	11,948,344	17,517,401
Northwest Territories.....				
Totals.....	63,390,099	17,795,023	105,882,147	187,067,269

<sup>1</sup> (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) 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 Products of Petroleum and Coal Group for the year under review are shown in the above table.

(c) 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 5. Materials Used in the Industries in the Products of Petroleum and Coal Group, 1957 and 1958

Material	1957		1958	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
<b>Petroleum products industry:</b>				
Crude oil (under 60° A.P.I.) in its natural state, from Canadian Imp. gal. wells .....	4,455,346,706	392,401,179	132,237,015 <sup>1</sup>	409,239,469
Absorption gasoline, etc., from Canadian wells (run to stills)..... "	24,959,880	2,079,452	1,310,153 <sup>1</sup>	3,625,097
Crude oil, in its natural state, imported, (run to stills):				
From United States .....	288,766,902	28,472,722	1,177,216 <sup>1</sup>	4,533,852
From South America .....	3,099,888,003	283,692,667	72,124,350 <sup>1</sup>	226,603,914
From other countries .....	490,639,033	41,618,921	32,461,651 <sup>1</sup>	93,792,992
Crude oil not in its natural state, imported .....	—	—	695,742 <sup>1</sup>	3,813,817
Blending stocks for gasoline:				
Alkylate and cumene .....	Imp. gal. 5,403,367	1,381,541	124,132 <sup>1</sup>	1,011,792
Benzol .....	" 2,467,710	1,096,750	70,584 <sup>1</sup>	935,438
Phenol .....	lb. 656,874	111,338	744,494	149,088
Sulphuric acid, 100% .....	" 22,279,360	381,916	32,562,099	540,406
Sulphur .....	" 449,787	20,029	450,186	20,059
Caustic soda .....	" 19,168,159	731,017	16,835,315	676,964
Soda ash .....	" 1,632,670	58,188	1,593,533	55,829
Litharge .....	" 310,349	47,507	360,197	50,503
Fuller's earth, bentonite and other clays .....	ton 3,724	324,481	2,356	145,940
Compounding materials:				
Used in refineries .....	—	1,581,166	—	4,796,545
Used in compounding plants .....	Imp. gal. 18,686,000	6,428,526	20,622,266	7,171,531
Tetraethyl fluid .....	cc. 8,409,576,540	14,871,295	37,816,363 <sup>1</sup>	14,154,586
Dyes for gasoline .....	..	97,090	..	112,615
Inhibitor .....	..	588,029	..	637,844
Natural gas, wet .....	M cu. ft. 82,907,193	3,914,948	150,991,372	8,023,122
Other materials .....	...	35,078,968	...	36,740,489
Shipping containers .....	...	12,493,085	...	13,088,617
<b>Totals, petroleum products industry .....</b>	<b>...</b>	<b>827,470,815</b>	<b>...</b>	<b>829,920,509</b>
<b>Coke and gas industry:</b>				
Bituminous coal carbonized in ovens or retorts:				
(a) Canadian .....	ton 972,478	10,301,591	795,021	8,415,402
(b) Imported .....	" 4,657,534	49,999,956	3,984,994	42,665,692
Bituminous coal for making water gas:				
(a) Canadian .....	—	—	—	—
(b) Imported .....	ton 2,031	25,649	879	11,266
Coke for gas-making:				
(a) Purchased .....	" 5,741	127,008	4,087	89,153
(b) Companies' own make .....	" 42,948	896,410	29,596	621,516
Oil used for enriching water gas .....	Imp. gal. 8,556,536	976,751	2,226,529	253,021
Absorbing and wash oil .....	" 305,670	76,670	286,978	72,414
Caustic soda .....	lb. 1,976,792	64,765	2,198,246	67,648
Lime .....	ton 478	6,868	363	4,730
Water .....	—	83,486	..	70,946
Iron oxide .....	ton 5,999	64,854	237	2,446
Sulphuric acid, 100% .....	lb. 55,963,788	789,216	54,217,967	719,793
Propane and butane .....	Imp. gal. 8,773,276	1,143,105	6,099,452	760,725
All other materials .....	—	1,563,539	...	2,517,450
<b>Totals, coke and gas industry .....</b>	<b>—</b>	<b>66,119,868</b>	<b>...</b>	<b>56,272,204</b>
<b>Miscellaneous products of petroleum and coal industry:</b>				
Asphalt .....	gal. 8,618,153	1,356,412	20,690,455	3,091,971
Coal, bituminous .....	ton —	—	151,331	1,014,289
Coal, lignite .....	" 77,991	185,942	84,694	169,388
Pitch .....	lb. 6,938,000	116,546	..	..
Resin .....	" 1,961,051	564,088	107,870	8,307
All other materials .....	—	2,596,121	...	3,574,811
Shipping containers .....	—	420,637	...	406,034
<b>Totals, miscellaneous industry .....</b>	<b>—</b>	<b>5,239,746</b>	<b>...</b>	<b>8,264,800</b>
<b>Total for group .....</b>	<b>—</b>	<b>898,830,429</b>	<b>...</b>	<b>894,457,513</b>

<sup>1</sup> Barrels of 35 Imperial gallons in 1958.<sup>2</sup> Pounds in 1958.



TABLE 6. Products Made in the Industries in the Products of Petroleum and Coal Group, 1957 and 1958

Product	1957		1958	
	Quantity	Gross selling value at works	Quantity	Gross selling value at works
		\$		\$
<b>Made for sale:</b>				
Gasoline (excluding imported casinghead blended):				
Aviation gasoline..... Imp. gal.	20,763,536	7,878,188	675,867 <sup>1</sup>	9,006,451
Motor gasoline..... "	3,019,372,454	599,141,360	89,310,044 <sup>1</sup>	619,266,830
Natural gasoline..... "	32,817,775	2,616,028	1,321,153 <sup>1</sup>	3,810,619
Naphtha specialties..... "	32,126,591	7,421,624	924,424 <sup>1</sup>	7,667,758
Aviation turbine fuel..... "	167,652,344	28,589,068	4,302,097 <sup>1</sup>	26,883,696
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel..... "	387,034,174	69,909,883	12,058,840 <sup>1</sup>	71,945,232
Diesel fuel..... "	907,660,555	135,089,167	23,264,089 <sup>1</sup>	117,699,331
Light fuel oils (Nos. 2 and 3)..... "	1,349,450,928	205,056,269	41,619,213 <sup>1</sup>	211,642,223
Heavy fuel oils (Nos. 4, 5 and 6)..... "	1,403,484,497	129,577,876	34,374,486 <sup>1</sup>	93,707,646
Lubricating oil and grease: <sup>2</sup>				
Made in refineries..... "	74,090,938	53,585,973	1,867,969 <sup>1</sup>	48,762,845
Made in blending plants..... "	19,442,464	16,770,777	563,577 <sup>1</sup>	17,546,259
Asphalt..... "	286,855,088	37,875,921	9,161,825 <sup>1</sup>	43,410,446
Petroleum coke..... ton	155,161	2,020,451	176,860	2,121,668
Liquefied petroleum gases..... Imp. gal.	107,113,272	12,162,099	5,164,805 <sup>1</sup>	15,814,055
Other products.....	—	21,987,596	...	38,174,207
<b>Totals, made for sale.....</b>	<b>—</b>	<b>1,329,682,280</b>	<b>...</b>	<b>1,327,462,266</b>
<b>Made for own use:</b>				
Gasoline..... Imp. gal.	809,856	180,039	19,060 <sup>1</sup>	138,033
Naphtha specialties..... "	96,564	22,971	2,014 <sup>1</sup>	17,159
Kerosene and stove oil (No. 1 fuel oil)..... "	26,665	5,257	542 <sup>1</sup>	3,345
Diesel fuel..... "	512,947	86,559	13,367 <sup>1</sup>	76,586
Light fuel oils (Nos. 2 and 3)..... "	668,865	88,068	21,189 <sup>1</sup>	83,268
Heavy fuel oils (Nos. 4, 5 and 6)..... "	250,477,380	21,854,287	7,504,317 <sup>1</sup>	19,445,938
Lubricating oil and grease <sup>1</sup> ..... "	122,728	101,166	3,403 <sup>1</sup>	14,992
Asphalt..... "	266,377	34,421	8,013 <sup>1</sup>	40,121
Petroleum coke..... ton	118,135	1,647,867	285,937	3,516,356
Still gas..... M cu. ft.	35,331,356	19,555,876	39,397,753	17,070,303
Other products.....	...	3,299,971	...	780,720
<b>Totals, made for own use.....</b>	<b>...</b>	<b>46,876,482</b>	<b>...</b>	<b>41,186,821</b>
<b>Totals, petroleum products industry.....</b>	<b>...</b>	<b>1,376,558,762</b>	<b>...</b>	<b>1,368,649,087</b>
<b>Coke and gas industry:</b>				
Gas sold or used:				
Gas sold..... M cu. ft.	15,861,191	14,875,883	4,674,187	6,548,904
Gas used in own coke or gas plants..... "	12,648,758	3,601,309	12,607,586	3,935,892
Gas used in associated works..... "	41,743,510	8,874,622	28,913,734	7,420,216
Gas otherwise accounted for but not sold..... "	1,393,733	553,809	2,734,841	1,746,867
Gas not accounted for..... "	1,494,362	359,149	2,166,867	619,793
<b>Totals, gas sold or used.....</b>	<b>...</b>	<b>28,264,772</b>	<b>51,097,215</b>	<b>20,271,672</b>
Coke made:				
Coke from by-product or bee-hive ovens..... ton	4,089,879 <sup>1</sup>	62,483,393 <sup>1</sup>	3,429,473 <sup>1</sup>	51,590,069 <sup>1</sup>
Coke from gas retorts..... "	49,321 <sup>1</sup>	959,063 <sup>1</sup>	53,632 <sup>1</sup>	1,051,890 <sup>1</sup>
<b>Totals, coke.....</b>	<b>...</b>	<b>63,442,456</b>	<b>3,483,105</b>	<b>52,641,959</b>
Other products:				
Tar..... Imp. gal.	43,651,464	5,774,036	35,869,842	4,761,263
Ammonium sulphate..... lb.	61,099,102	1,017,026	58,765,127	937,608
Benzol..... Imp. gal.	8,632,895	3,583,618	6,916,172	2,739,956
Toluol, xylol and naphthalene..... "	2,554,504	990,525	2,430,467	808,365
All other products.....	...	1,676,224	...	627,867
<b>Totals, coke and gas industry.....</b>	<b>...</b>	<b>104,748,657</b>	<b>...</b>	<b>82,788,690</b>
<b>Miscellaneous products of petroleum and coal industry:</b>				
Asphalt road emulsions..... Imp. gal.	18,238,869	4,297,867	21,182,714	4,472,482
Protective coatings..... "	1,251,786	1,624,263	4,928,887	2,270,362
Paving materials..... ton	98,971	728,464	384,603	2,395,302
All other products.....	—	3,967,824	...	5,833,438
<b>Totals, miscellaneous industry.....</b>	<b>—</b>	<b>10,618,418</b>	<b>...</b>	<b>14,971,584</b>
<b>Total for group.....</b>	<b>—</b>	<b>1,491,925,837</b>	<b>...</b>	<b>1,466,409,361</b>

<sup>1</sup> Barrels of 35 Imperial gallons in 1958.<sup>2</sup> Grease at 10 lbs. to a gallon.<sup>3</sup> Includes breeze.



**TABLE 7. Fuel and Electricity Used<sup>1</sup> in the Manufacture of Products of Petroleum and Coal in Canada,  
by Industries and by Provinces, 1958**

No.		Bituminous coal		Anthracite coal	Lignite coal	Coke (for fuel only)	Gasoline (including gasoline used in cars and trucks)
		From Canadian mines	Imported				
		tons					Imp. gal.
	(a) By industries						
	Petroleum Refining Industry:						
1	Quantity .....	—	—	—	—	336,067	845,489
2	Cost ..... \$	—	—	—	—	3,825,444	190,510
	Lubricating Oils and Greases Industry:						
3	Quantity .....	—	—	—	—	—	17,332
4	Cost ..... \$	—	—	—	—	—	6.861
	Absorption Gasoline Industry:						
5	Quantity .....	—	—	—	—	—	5,363
6	Cost ..... \$	—	—	—	—	—	1,783
	Coke and Gas Industry:						
7	Quantity .....	10,993	11,693	—	—	21,196	60,449
8	Cost ..... \$	114,727	82,759	—	—	141,889	19,726
	Miscellaneous:						
9	Quantity .....	—	256	11	—	388	102,336
10	Cost ..... \$	—	3,649	103	—	9,308	39,081
	(b) By provinces						
	Newfoundland, Nova Scotia and New Brunswick:						
11	Quantity .....	10,920	—	—	—	51,702	50,628
12	Cost ..... \$	113,749	—	—	—	624,818	12,821
	Quebec:						
13	Quantity .....	75	230	—	—	65,730	313,137
14	Cost ..... \$	1,022	3,324	—	—	684,596	84,907
	Ontario:						
15	Quantity .....	—	11,719	11	—	143,812	260,703
16	Cost ..... \$	—	83,084	103	—	1,908,176	57,883
	Manitoba:						
17	Quantity .....	—	—	—	—	26,113	136,405
18	Cost ..... \$	—	—	—	—	235,017	30,206
	Saskatchewan:						
19	Quantity .....	—	—	—	—	19,541	52,369
20	Cost ..... \$	—	—	—	—	125,721	18,007
	Alberta:						
21	Quantity .....	—	—	—	—	32,587	95,340
22	Cost ..... \$	—	—	—	—	162,985	26,431
	British Columbia and Northwest Territories:						
23	Quantity .....	—	—	—	—	18,156	122,367
24	Cost ..... \$	—	—	—	—	235,328	27,908

<sup>1</sup> Data in this table relate only to establishments generally reporting value of factory shipments of \$100,000 and over. For total value of fuel and electricity used (including estimates for small firms) see Table 1.

TABLE 7. Fuel and Electricity Used<sup>1</sup> in the Manufacture of Products of Petroleum and Coal in Canada,  
by Industries and by Provinces, 1958

Fuel oil (not including lubricating oil)	Gas			Other fuel	Electricity		No.
	Liquefied petroleum gases (pro- pane, etc.)	Other manufactured gas	Natural gas		Purchased	Steam purchased	
Imp. gal.			M cu. ft.		kwh.	\$	
260,882,703	10,437,031	42,370,856	9,799,131	...	802,977,022	..	1
19,265,253	779,132	18,201,727	1,513,223	16,323	6,033,916	368,820	2
807,398	—	—	417	...	2,578,180	—	3
78,268	—	—	606	4,193	33,094	—	4
3,485	3,715,179	1,921	4,103,542	...	18,236,855	..	5
825	168,353	712	254,777	77	240,186	67,618	6
1,308,490	—	12,615,250	58,361	...	67,850,166	—	7
116,385	—	3,938,080	25,866	21,098	540,691	—	8
874,031	150	—	61,630	...	6,119,961	..	9
126,009	45	—	32,586	32,593	92,017	12,000	10
9,650,807	914,448	6,160,083	1,060	...	39,546,958	—	11
615,107	64,351	2,463,531	1,060	22,936	382,986	—	12
106,234,807	375,340	14,339,122	58,454	...	312,149,168	..	13
7,868,358	39,148	6,824,852	26,053	18,191	1,568,887	651	14
89,833,390	6,044,562	19,206,172	93,456	...	216,138,656	..	15
7,461,956	572,536	7,615,092	62,774	16,801	2,128,017	322,636	16
17,158,345	—	1,529,687	—	—	56,685,750	—	17
852,492	—	635,163	—	—	375,270	—	18
20,362,015	1,590,754	2,448,043	699,102	—	55,479,202	..	19
1,094,081	65,063	704,107	95,069	—	781,871	56,984	20
5,004,818	2,587,106	5,410,678	11,242,791	...	87,057,589	..	21
252,706	146,087	1,420,849	1,391,592	16,356	801,957	68,618	22
15,631,925	2,640,150	5,894,242	1,928,218	—	120,704,851	—	23
1,442,040	60,345	2,476,925	250,510	—	900,936	—	24

**TABLE 8. Capital and Repair Expenditures in the Products of Petroleum and Coal Group  
by Industries, 1958**

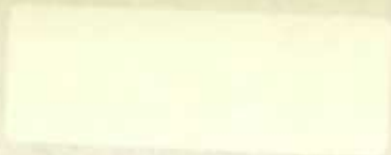
Industry	Capital expenditures		Sub-total	Repair expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery		Construction	Machinery		
	thousands of dollars						
Coke and gas .....	3, 777	282	4, 059	412	2, 077	2, 489	6, 548
Petroleum products .....	131, 935	6, 719	138, 654	22, 958	3, 849	26, 807	165, 461
Miscellaneous products of petroleum and coal .....	364	326	690	70	248	318	1, 008
Totals .....	136, 076	7, 327	143, 403	23, 440	6, 174	29, 614	173, 017

**Note:** The above are final figures and may differ slightly from the preliminary figures shown in the individual industry reports.

**TABLE 9. Power Equipment in Use or Available for Use in the Products of Petroleum and Coal Group at the End of 1958**

Type of equipment	Driving generators	Not driving generators
horsepower		
Prime movers:		
Steam engines .....	400	14,531
Steam turbines .....	15,777	179,028
Diesel engines .....	1,611	8,375
Gasoline, gas and oil engines, other than diesel engines .....	7,076	47,037
Hydraulic turbines or water wheels .....	18,500	750
<b>Totals .....</b>	<b>43,364</b>	<b>249,721</b>
Electric motors (one-quarter horsepower and over) .....	—	333,268





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