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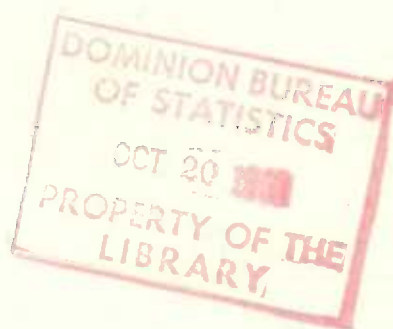
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THE PETROLEUM PRODUCTS INDUSTRY 1959



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EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 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 1959 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

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials 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*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most 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 intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

THE PETROLEUM PRODUCTS INDUSTRY

1959

Statistics for the Petroleum Products Industry cover all establishments in Canada which were occupied in (a) the refining of crude oil to produce gasoline, fuel oil, etc. (b) the blending or compounding of lubricating oils and greases and (c) the operation of absorption gasoline plants for the recovery of the naphtha content of natural gas.

Forty-one refineries, 14 blending plants and 14 absorption plants, or a total of 69 works reported in this category in 1959 and the aggregate value of production was \$1,156,912,043. It should be noted that the figures for 1959 are not exactly comparable

with those for previous years due to a change in procedure used in reporting value of products by the petroleum refining industry — see footnote to Table 7.

Output figures for 1959 included \$1,121,398,486 for petroleum refineries, \$18,150,360 for concerns engaged in blending oils and greases and \$17,363,197 for absorption plants. The principal statistics for each of these groups and for the industry as a whole are tabulated in tables 1 to 5 and the detailed figures for each division are recorded separately in the succeeding pages of this report.

(a) The Petroleum Refining Industry, 1959

The 41 petroleum refineries which operated in Canada in 1959 were distributed by provinces as follows: 5 in Quebec, 7 in Ontario, 3 in Manitoba, 6 in Saskatchewan, 10 in Alberta, 7 in British Columbia and 1 each in Nova Scotia, New Brunswick and Northwest Territories. The refineries which were active at the end of the year had a capacity of 868,300 barrels of crude oil per day, of which Quebec had 268,800 barrels or 30.9 per cent; Ontario, 264,850 barrels or 30.5 per cent; British Columbia, 100,000 barrels or 11.5 per cent; Alberta, 90,200 barrels or 10.4 per cent; Saskatchewan 64,000 barrels or 7.4 per cent; Nova Scotia, 45,000 barrels or 5.2 per cent; Manitoba, 33,200 barrels or 3.8 per cent; the Northwest Territories, 1,350 barrels and New Brunswick, 300 barrels. The location, type and capacity of each of these refineries are recorded in the directory at the end of this report.

During the year 115,599,492 barrels of imported crude oil and 152,143,029 barrels of crude oil and absorption gasoline from Canadian wells, or a total of 267,742,521 barrels was put through Canadian refineries, this amounting to about 84.5 per cent of rated capacity. Of the total crude input about 43.2 per cent was imported while about 52.8 per cent came from Canadian wells. The total cost at refineries of all crude oil and naphtha charged to still during the year was \$767,209,027. Stocks of crude oil held at the refineries on December 31st amounted to 8,197,860 barrels.

Refinery production of gasoline amounted to 96,196,965 barrels. The gallonage made in 1959 was 6.9 per cent over 1958 which in turn was 1.0 per cent over 1957. The refinery selling value of the

gasoline made during the year was \$504,823,818. Stocks of gasoline held by the refineries on December 31st amounted to 11,280,208 barrels.

Imports of gasoline, motor and aviation, amounted to 5,541,873 barrels during 1959 while exports totalled 540,660 barrels. Sales, as reported to the Bureau, amounted to 105,448,000 barrels, this figure being compiled from returns to provincial governments in connection with tax payments.

Production of fuel and gas oils (excluding any made and used for cracking purposes) totalled 135,673,772 barrels of which 126,491,883 barrels were made for sale and 9,181,889 barrels for use as fuel in the producing plants. Imports amounted to 29,025,613 barrels and exports totalled 906,822 barrels. Producers' stocks of all fuel oils increased by 1,936,381 barrels to 16,287,287 barrels at the end of the year. Consumption of fuel oil and distillate in Canada, excluding consumption under refinery boilers, as reported by distributors and refiners, amounted to 146,866,189 barrels in 1959.

Employment in the refinery industry totalled 13,404 people who received \$77,754,671 in salaries and wages. Expenditures for fuel and electricity amounted to \$50,898,934 and \$844,391,819 were paid out for crude oil and other processing materials.

Note: See footnote to Table 7 for explanation of change in the basis of valuation for the Petroleum Refining Industry in 1959 and Table 8B for a comparison of the effect on "Value added" and "Gross selling value" for 1958 and 1959 because of the change in the basis of valuation.

(b) Manufacture of Lubricating Oils and Greases, (other than in refineries), 1959

Fourteen factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1959. Eight of these plants were located in Ontario, 2 in Quebec, 1 in Manitoba, 1 in Saskatchewan and 2 in Alberta. They gave work to a total of 277 people who were paid \$1,274,263 in salaries and wages. Purchases of processing materials and

containers cost \$12,334,215. Included in the year's output were lubricating oils at \$15,297,307 and lubricating greases at \$2,478,747. Sales of lubricating oils, as reported by principal dealers, amounted to 2,931,510 barrels, while sales of lubricating greases totalled 157,826 barrels. Sales of gear oils totalled 171,405 barrels.

(c) Absorption Gasoline Plants, 1959

Fourteen plants operated in this group in 1959. Value of shipments amounted to \$17,363,197. Output included 70,042,447 M cubic feet of dry gas valued at \$7,151,925; 64,510,274 gallons of natural gasoline and condensate at \$4,868,257; 69,167,544 gallons of liquefied petroleum gases at \$2,738,128 and 142,547 tons of sulphur at \$2,555,169. Employees numbered 461 persons who received \$2,525,833 in salaries and wages. Expenditures for fuel and electricity amounted to \$918,608 and raw gas and other materials used in processing cost \$7,169,778.

Absorption plants are designed to recover the naphtha content of natural gas. In addition, large quantities of propane, butane and dry gas are recovered. These plants were not treated as a separate group prior to 1952 and, accordingly, data for earlier years are not available.

Note: Figures for value added by manufacture, shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced

by value of factory shipments, f.o.b. plant for the Lubricating Oils and Greases and the Absorption Gasoline Plants portion of this group. The Refineries, however, continued to report value of production. As no inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments (Production in the case of the Refineries) the cost of materials, fuel and electricity. In 1954 and 1955 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 information thus made available was taken into account in calculating the value added for 1954 and 1955 for the Lubricating Oils and Greases and the Absorption Gasoline Plants portion of the group. 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. The "Value added" figures for the Petroleum Refineries however, continued to be calculated on the same basis as was used prior to 1952.

THE PETROLEUM PRODUCTS INDUSTRY

TABLE 1. Principal Statistics of the Petroleum Products Industry, Significant Years 1929-59 and by Provinces, 1958 and 1959

Year and province	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products ¹
	number			dollars			
1929	25	4,978	8,153,625	3,754,655	76,861,939	18,791,720	99,408,314
1933	47	4,628	6,141,945	3,137,719	49,187,757	17,942,789	70,268,265
1937	57	5,137	8,246,843	4,450,005	80,401,880	13,602,129	98,454,014
1939	53	4,766	7,890,247	4,578,699	74,465,600	25,534,218	104,578,517
1944	48	6,809	14,317,939	9,002,567	153,558,664	47,986,185	210,547,416
1946	43	7,145	14,849,141	10,159,025	155,818,744	57,447,611	223,425,380
1949	47	9,413	26,142,276	16,852,060	336,973,056	82,971,097	436,796,213
1955	61	13,340	57,892,387	32,593,790	642,872,134	373,368,531	1,048,834,455
1956	61	13,925	66,341,638	43,127,224	760,375,257	444,427,813	1,253,798,979
1957	64	14,308	73,887,074	52,398,424	827,470,815	497,029,225	1,376,558,762
1958							
Quebec	8	2,969	15,930,421	16,710,356	279,375,653	171,663,141	467,749,150
Ontario	14	5,337	29,374,546	16,904,326	255,695,530	120,861,674	393,461,530
Manitoba	4	703	2,910,954	2,124,043	34,189,442	20,749,388	57,062,873
Saskatchewan	11	1,183	5,872,466	2,911,856	50,255,873	29,241,309	82,409,038
Alberta	22	2,214	11,534,922	4,257,904	81,538,769	64,278,456	150,075,129
British Columbia	9	1,551	8,129,287	4,495,609	77,570,220	51,558,413	133,624,242
Nova Scotia	1	533	2,891,222	3,648,102	51,295,022	29,324,001	84,267,125
New Brunswick	1						
Northwest Territories	1						
Canada	71	14,490	76,643,818	51,052,196	829,920,509	487,676,382	1,368,649,087
1959							
Quebec	7	2,775	16,287,759	15,217,629	282,756,426	72,465,280	371,207,394
Ontario	15	5,490	33,148,511	18,701,648	283,814,938	58,656,536	359,924,901
Manitoba	4	674	3,101,435	2,235,974	33,857,528	14,513,379	49,613,455
Saskatchewan	9	1,100	5,882,726	3,320,433	53,740,808	23,876,931	79,792,985
Alberta	23	2,163	12,073,703	4,430,546	84,534,378	38,229,869	124,453,969
British Columbia	8	1,457	8,200,528	4,897,125	76,698,225	23,948,290	104,554,813
Nova Scotia	1	483	2,860,105	3,163,880	48,493,509	13,283,343	67,364,526
New Brunswick	1						
Northwest Territories	1						
Canada	69	14,142	81,554,767	51,967,235	863,895,812	244,973,628	1,156,912,043

¹ See note to text, page 5.

Note: See footnote to Table 7 for explanation of change in the basis of valuation for the Petroleum Refining Industry in 1959.

TABLE 2. Principal Statistics of the Petroleum Products Industry, by Sub-groups, 1958 and 1959

Group	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products at works ¹
	number			dollars			
1958							
Petroleum refining	42	13,799	73,366,863	50,194,192	809,113,787	474,169,414	1,333,477,393
Lubricating oils and greases	15	280	1,183,922	123,673	11,305,690	7,512,903	17,662,168
Absorption gasoline	14	411	2,093,033	734,331	9,501,032	8,374,834	17,509,526
Totals	71	14,490	76,643,818	51,052,196	829,920,509	490,057,151	1,368,649,087
1959							
Petroleum refining	41	13,404	77,754,671	50,898,934	844,391,819	230,095,196	1,121,398,486
Lubricating oils and greases	14	277	1,274,263	149,693	12,334,215	5,524,306	18,150,360
Absorption gasoline	14	461	2,525,833	918,608	7,169,778	9,354,126	17,363,197
Totals	69	14,142	81,554,767	51,967,235	863,895,812	244,973,628	1,156,912,043

¹ See note to text, page 5.

Note: See footnote to Table 7 for explanation of change in the basis of valuation for the Petroleum Refining Industry in 1959.

TABLE 3. Inventories,¹ 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
(a) By sub-groups				
Opening:				
Petroleum refining	38,764,221	17,575,312	100,846,028	157,367,561
Lubricating oils and greases	705,369	1,675,759	776,540	3,157,668
Absorption gasoline	8,723	2,518	1,480,369	1,491,610
Totals	39,478,313	19,435,589	103,102,937	162,016,839
Closing:				
Petroleum refining	36,180,111	16,091,434	106,499,369	158,770,914
Lubricating oils and greases	636,425	1,517,369	792,784	2,946,578
Absorption gasoline	13,121	1,720	1,560,482	1,575,323
Totals	36,829,657	17,610,523	108,852,635	163,292,815
(b) By provinces				
Opening:				
Quebec	15,049,819	4,389,224	31,135,844	50,574,887
Ontario	14,591,699	9,490,728	28,427,748	52,510,175
Manitoba	934,671	384,242	5,821,163	7,140,076
Saskatchewan	1,727,938	1,263,068	8,223,016	11,214,022
Alberta	1,888,752	1,372,715	11,182,364	14,443,831
British Columbia	2,804,234	1,864,790	11,284,169	15,953,193
Other provinces	2,481,200	670,822	7,028,633	10,180,655
Canada	39,478,313	19,435,589	103,102,937	162,016,839
Closing:				
Quebec	13,316,645	3,238,613	31,518,396	48,073,654
Ontario	14,402,169	8,765,929	30,400,768	53,568,860
Manitoba	938,204	530,901	6,667,930	8,137,035
Saskatchewan	1,850,232	828,894	9,802,377	12,481,503
Alberta	2,349,384	1,692,166	13,603,737	17,645,287
British Columbia	2,402,490	1,836,188	12,301,598	16,540,276
Other provinces	1,570,533	717,832	4,557,829	6,846,194
Canada	36,829,657	17,610,523	108,852,635	163,292,815

¹ (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 Petroleum Products Industry 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 4. Principal Statistics of the Petroleum Products Industry, classified according to Type of Ownership, 1958 and 1959

Type	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Gross selling value of products
1958						
Individual ownership	2	} 14,490	76,643,818	51,052,196	829,920,509	1,368,649,087
Co-operatives	1					
Incorporated companies	68					
Totals	71	14,490	76,643,818	51,052,196	829,920,509	1,368,649,087
1959						
Co-operatives	1	} 14,142	81,554,767	51,967,235	863,895,812	1,156,912,043
Incorporated companies	68					
Totals	69	14,142	81,554,767	51,967,235	863,895,812	1,156,912,043

Note: See footnote to Table 7 for explanation of change in the basis of valuation for the Petroleum Refining Industry in 1959.

TABLE 5. Principal Statistics of the Petroleum Products Industry, grouped according to Selling Value of Products, 1958 and 1959

Establishments reporting a value of products	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Gross selling value of products
	number		dollars			
1958						
Under \$10,000	2	34	154,192	35,269	376,244	69,978
\$ 10,000 to \$ 24,999	3					
25,000 " 49,999	2	12	42,058	8,688	118,587	232,306
50,000 " 99,999	2					
100,000 " 199,999	4	31	121,620	40,730	260,746	557,604
200,000 " 499,999	4	46	240,098	35,678	396,903	1,259,011
500,000 " 999,999	5	109	519,717	184,707	2,040,177	3,182,123
1,000,000 " 4,999,999	20	1,240	5,785,065	2,238,093	35,161,963	52,209,813
5,000,000 and over	29	10,174	53,655,205	48,509,031	791,565,889	1,311,138,252
Head offices	—	2,844	16,125,863	—	—	—
Totals	71	14,490	76,643,818	51,052,196	829,920,509	1,368,649,087
1959						
Under \$10,000	1	9	23,016	2,953	47,953	110,232
\$ 10,000 to \$ 24,999	1					
25,000 " 49,999	2	54	274,421	73,072	697,522	696,415
50,000 " 99,999	2					
100,000 " 199,999	4	96	527,615	183,032	758,444	1,983,493
200,000 " 499,999	6	32	160,646	45,289	1,115,714	1,871,628
500,000 " 999,999	3	1,154	5,668,644	2,415,261	31,221,495	49,033,066
1,000,000 " 4,999,999	19	9,778	55,991,533	49,247,628	830,054,684	1,103,217,209
5,000,000 and over	31	3,019	18,908,892	—	—	—
Head offices	—					
Totals	69	14,142	81,554,767	51,967,235	863,895,812	1,156,912,043

Note: See footnote to Table 7 for explanation of change in the basis of valuation for the Petroleum Refining Industry in 1959.

TABLE 6. Number and Total Capacity of Petroleum Refineries in Operation December 31, 1956-59

Province	1956		1957		1958		1959	
	Number	Capacity, in barrels of crude per day	Number	Capacity, in barrels of crude per day	Number	Capacity, in barrels of crude per day	Number	Capacity, in barrels of crude per day
Nova Scotia	1	42,000	1	44,500	1	45,000	1	45,000
New Brunswick	1	300	1	300	1	300	1	300
Quebec	5	252,000	5	255,800	5	265,800	5	268,800
Ontario	6	163,950	6	201,350	6	207,850	7	264,850
Manitoba	3	30,200	3	33,200	3	33,200	3	33,200
Saskatchewan	9	62,000	9	69,600	8	69,000	6	64,000
Alberta	10	83,600	10	84,450	10	80,550	10	90,200
British Columbia	5	71,000	5	76,000	7	100,000	7	100,600
Northwest Territories	1	1,300	1	1,300	1	1,350	1	1,350
Canada	41	706,350	41	766,500	42	803,050	41	868,300

Note: 1 barrel = 35 Imperial gallons.

TABLE 7. Principal Statistics of the Petroleum Refining Industry, 1955-59

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Gross selling value of products
	number		dollars				
1955	40	12,881	56,031,965	32,313,988	630,316,952	363,708,930	1,026,339,870
1956	41	13,489	64,519,793	42,695,192	752,575,866	433,352,374	1,228,623,432
1957	41	13,768	71,345,568	51,827,693	811,435,682	485,173,639	1,348,437,014
1958	42	13,799	73,366,863	50,194,192	809,113,787	474,169,414	1,333,477,393
1959	41	13,404	77,754,671	50,898,934	844,391,819	230,095,196	1,121,398,486

Note: The apparent decline shown in "Value added" and "Gross selling value of products" in 1959 from 1958 by the Petroleum Refining Industry primarily was due to a change in the basis of valuation used by the refining companies in calculating the value of products made. Since 1954 most of the major refiners have reported value of products in the annual Census of Industry at a valuation nearer the marketing (wholesale) level than the manufacturing (refining) selling value. In order to bring the level of valuation more in line with the manufacturing level as reported by other industries in the annual Census of Industry all firms classified to the Petroleum Refining Industry were asked in 1959 to report the value of their products at a level which would approximate as closely as possible a manufacturing (refining) selling value. At the same time, in order to provide a statistical link between the two bases of valuation refiners were further asked to provide as well the 1959 data using the "old" or marketing (wholesale) basis. These are shown alongside the data on the "new" basis in Table 8 B. In addition, the Bureau has compiled estimates of 1958 selling values on the "new" or manufacturing (refining) basis. A comparison of the values at the "new" or manufacturing selling value level with the "old" or marketing selling value level by provinces for the year 1958 is also set out in Table 8 B.

TABLE 8 A. Principal Statistics of the Petroleum Refining Industry by Provinces, 1958 and 1959

Province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture	Gross selling value of products
	number		dollars				
1958							
Quebec	5	2,908	15,680,991	16,675,024	276,179,578	168,826,276	461,680,878
Ontario	6	5,149	28,566,529	16,826,538	249,274,346	117,818,409	383,919,293
Manitoba	3	697	2,892,610	2,120,008	33,988,332	20,655,133	56,763,473
Saskatchewan	8	1,159	5,773,142	2,871,126	50,100,463	29,020,255	81,991,844
Alberta	10	1,883	9,796,085	3,729,406	74,699,180	57,806,024	136,234,610
British Columbia	7	1,470	7,766,284	4,323,988	73,576,866	50,719,316	128,620,170
Other provinces ¹	3	533	2,891,222	3,648,102	51,295,022	29,324,001	84,267,125
Canada	42	13,799	73,366,863	50,194,192	809,113,787	474,169,414	1,333,477,393
1959							
Quebec	5	2,716	16,031,218	15,181,918	279,284,624	69,845,642	364,984,206
Ontario	7	5,302	32,258,394	18,598,027	276,785,781	56,374,620	350,497,047
Manitoba	3	668	3,082,613	2,231,834	33,651,185	14,415,442	49,306,264
Saskatchewan	6	1,042	5,604,234	3,107,137	53,296,177	22,726,361	78,110,254
Alberta	10	1,752	9,820,508	3,760,202	76,415,778	30,006,376	107,268,713
British Columbia	7	1,441	8,097,599	4,855,936	76,464,765	23,443,412	103,867,476
Other provinces ¹	3	483	2,860,105	3,163,880	48,493,509	13,283,343	67,364,526
Canada	41	13,404	77,754,671	50,898,934	844,391,819	230,095,196	1,121,398,486

¹ Includes one refinery in each of Nova Scotia, New Brunswick and Northwest Territories.

Note: See footnote to Table 7 for explanation of change in the basis of valuation for the Petroleum Refining Industry in 1959.

**TABLE 8 B. Comparison of Specified Principal Statistics of the Petroleum Refining Industry
"Old" Basis vs "New" Basis, by Provinces, 1958 and 1959**

Province	Value added by manufacture		Gross selling value of products	
	"Old" basis	"New" basis	"Old" basis	"New" basis
dollars				
1958				
Quebec	168,826,276	53,199,229	461,680,878	346,053,831
Ontario	117,818,409	42,191,880	383,919,293	308,292,764
Manitoba	20,655,133	13,378,999	56,763,473	49,485,339
Saskatchewan	29,020,255	18,465,435	81,991,844	71,437,024
Alberta	57,806,024	26,986,756	136,234,610	105,415,342
British Columbia	50,719,316	19,184,069	128,620,170	97,084,923
Other provinces	29,324,001	7,336,097	84,267,125	62,279,221
Canada	474,169,414	180,740,465	1,333,477,393	1,040,048,444
1959				
Quebec	192,515,220	69,845,642	486,981,762	364,984,206
Ontario	133,795,169	56,374,620	429,178,977	350,497,047
Manitoba	20,276,545	14,415,442	56,159,564	49,306,264
Saskatchewan	33,281,142	22,726,361	89,684,456	78,110,254
Alberta	58,589,758	30,006,376	138,765,738	107,268,713
British Columbia	51,178,800	23,443,412	132,499,501	103,867,476
Other provinces	40,123,331	13,283,343	91,780,720	67,364,526
Canada	529,759,965	230,095,196	1,425,050,718	1,121,398,486

Note: See footnote to Table 7 for explanation of change in basis of valuation.

TABLE 9. Products Made in Petroleum Refineries, 1958 and 1959

Product	1958		1959	
	Quantity	Gross selling value at works	Quantity	Gross selling value at works
\$				
Made for sale:				
Gasoline (excluding imported casing head-blended)				
Aviation gasoline	barrel 675,867	9,006,451	677,959	5,994,493
Motor gasoline	" 89,310,044	619,266,830	95,499,076	498,706,016
Naphtha specialties	" 924,424	7,667,758	707,208	4,261,568
Aviation turbine fuel	" 4,302,097	26,883,696	4,277,429	17,028,245
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel	" 11,513,997	68,749,661	13,904,661	60,668,246
Diesel fuel	" 23,264,089	117,699,331	27,482,962	111,697,948
Light fuel oils (Nos. 2 and 3)	" 41,619,213	211,642,223	48,318,017	200,095,285
Heavy fuel oils (Nos. 4, 5 and 6)	" 34,374,486	93,707,646	36,786,243	83,609,892
Lubricating oil and grease	" 1,887,969	48,762,845	2,024,847	26,213,332
Asphalt	" 9,161,825	43,410,446	9,098,825	29,687,350
Petroleum coke	ton 176,860	2,121,668	196,258	1,775,275
Petrochemical feed stocks	barrel 4,440,182	14,271,748	6,236,695	21,040,843
Liquefied petroleum gases	" 3,540,608	13,599,398	2,998,104	9,228,174
Other products ¹	—	15,500,871	—	9,605,762
Totals, made for sale	—	1,292,290,572	—	1,079,612,429
Made for own use:				
Gasoline	barrel 19,060	138,033	19,926	123,288
Naphtha specialties	" 2,014	17,159	2,204	16,329
Kerosene, stove oil (No. 1 fuel oil) and tractor fuel	" 542	3,345	2,630	11,504
Diesel fuel	" 13,367	76,586	150,443	503,364
Light fuel oils (Nos. 2 and 3)	" 21,184	83,268	15,298	77,899
Heavy fuel oils (Nos. 4, 5 and 6)	" 7,504,317	19,445,938	9,013,518	19,166,959
Lubricating oil and grease	" 3,403	14,992	3,545	44,713
Asphalt	" 8,013	40,121	5,228	17,753
Petroleum coke ²	ton 285,937	3,516,356	333,322	3,235,851
Still gas	M cu. ft. 39,397,753	17,070,303	38,199,166	16,683,233
Other products	—	780,720	—	1,905,164
Totals, made for own use	—	41,186,821	—	41,786,057
Grand totals	—	1,333,477,393	—	1,121,398,486

¹ Includes candles, alkylate, naphthenic acid, etc. These items were reported by fewer than three companies, so in accordance with the provisions of the Statistics Act, the figures cannot be shown separately.

² The totals for 1958 and 1959 include some catalytic carbon which was included under "Other products" in previous years.

TABLE 10. Materials Used in Petroleum Refineries, 1958 and 1959

Material	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Crude oil in its natural state, from Canadian wells	barrel 132,237,015	409,239,469	150,045,555	438,596,142
Absorption gasoline, etc., from Canadian wells (run to stills)	" 1,310,153	3,625,097	2,097,474	5,898,446
Crude oil, in its natural state, imported, (run to stills):				
From United States	" 1,177,216	4,533,852	—	—
From South America	" 72,124,350	226,603,914	73,329,222	204,529,049
From other countries	" 32,461,651	93,792,992	41,645,750	115,123,260
Crude oil, not in its natural state (run to stills)	" 695,742	3,813,817	624,520	3,062,130
Benzol	" 70,584	935,438	113,415	1,423,573
Alkylate and cumene	" 124,132	1,011,792	194,539	1,373,371
Phenol	lb. 744,494	149,088	846,096	150,743
Sulphuric acid, 100%	" 32,562,099	540,406	37,740,292	645,969
Ammonia, anhydrous	" 409,762	70,700	834,698	88,478
Sulphur	" 450,186	20,059	438,770	20,235
Caustic soda	" 16,835,315	676,964	17,153,146	697,774
Soda ash	" 1,593,533	55,829	1,405,053	49,430
Litharge	" 360,197	50,503	228,495	35,383
Fuller's earth, bentonite and other clays	ton 1,036	38,626	1,176	70,299
Tetraethyl fluid	lb. 37,816,363	14,154,586	41,181,044	15,347,249
Dyes for gasoline .....	.. ..	112,615	..	99,423
Inhibitor .....	.. ..	637,844	..	694,187
Fluid catalytic cracking unit catalysts (Aerocat, Nalcat, Filtrol 100, FCCU catalysts, etc.) .....	.. ..	4,245,660	..	4,839,338
Reforming or polymerization catalysts .....	.. ..	1,393,473	..	1,386,478
Additives .....	.. ..	4,490,488	..	4,465,637
Other materials .....	.. ..	28,879,685	..	35,529,567
Shipping containers .....	.. ..	10,040,890	..	10,265,658
Totals .....	...	809,113,787	...	844,391,819

TABLE 11. Employees and their Earnings in Petroleum Refineries, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1958								
Quebec	819	113	1,969	7	2,908	5,705,118	9,975,873	15,680,991
Ontario	2,158	829	2,133	29	5,149	17,310,929	11,255,600	28,566,529
Manitoba	178	162	354	3	697	1,457,245	1,435,365	2,892,610
Saskatchewan	300	57	801	1	1,159	2,018,587	3,754,555	5,773,142
Alberta	552	152	1,174	5	1,883	4,179,922	5,616,163	9,796,085
British Columbia	505	112	853	—	1,470	3,440,872	4,325,412	7,766,284
Other provinces	102	25	393	13	533	813,090	2,078,132	2,891,222
Canada	4,614	1,450	7,677	58	13,799	34,925,763	38,441,100	73,366,863
1959								
Quebec	780	99	1,830	7	2,716	5,873,151	10,158,067	16,031,218
Ontario	2,367	840	2,070	25	5,302	20,697,500	11,560,894	32,258,394
Manitoba	187	161	320	—	668	1,482,379	1,600,234	3,082,613
Saskatchewan	274	57	709	2	1,042	2,033,982	3,570,252	5,604,234
Alberta	550	140	1,054	8	1,752	4,366,659	5,453,849	9,820,508
British Columbia	491	104	846	—	1,441	3,730,926	4,366,673	8,097,599
Other provinces	90	23	358	12	483	857,020	2,003,085	2,860,105
Canada	4,739	1,424	7,187	54	13,404	39,041,617	38,713,054	77,754,671

TABLE 12. Production Workers in Petroleum Refineries, by Months, 1958 and 1959

Month	1958			1959		
	Male	Female	Total	Male	Female	Total
	number					
January	7,734	57	7,791	7,123	50	7,173
February	7,671	57	7,728	7,140	51	7,191
March	7,711	56	7,767	7,196	52	7,248
April	7,801	60	7,861	7,178	53	7,231
May	7,865	61	7,926	7,352	55	7,407
June	7,935	60	7,995	7,414	53	7,467
July	7,901	61	7,962	7,398	53	7,451
August	7,765	59	7,824	7,344	54	7,398
September	7,536	56	7,592	7,201	52	7,253
October	7,440	55	7,495	6,982	47	7,029
November	7,379	53	7,432	6,956	46	7,002
December	7,359	54	7,413	6,977	47	7,024
Averages	7,677	58	7,735	7,187	54	7,241

TABLE 13. Capital and Repair Expenditures in the Petroleum Refining and Lubricating Oils Industry, 1955-59

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	thousands of dollars						
1955	97,999	4,863	102,862	18,306	4,173	22,479	125,341
1956	74,680	4,389	79,069	20,871	4,232	25,103	104,172
1957	77,308	4,179	81,487	24,869	3,576	28,445	109,932
1958	93,113	5,376	98,489	22,301	3,658	25,959	124,448
1959 ^P	85,578	9,558	95,136	24,087	3,740	27,827	122,963

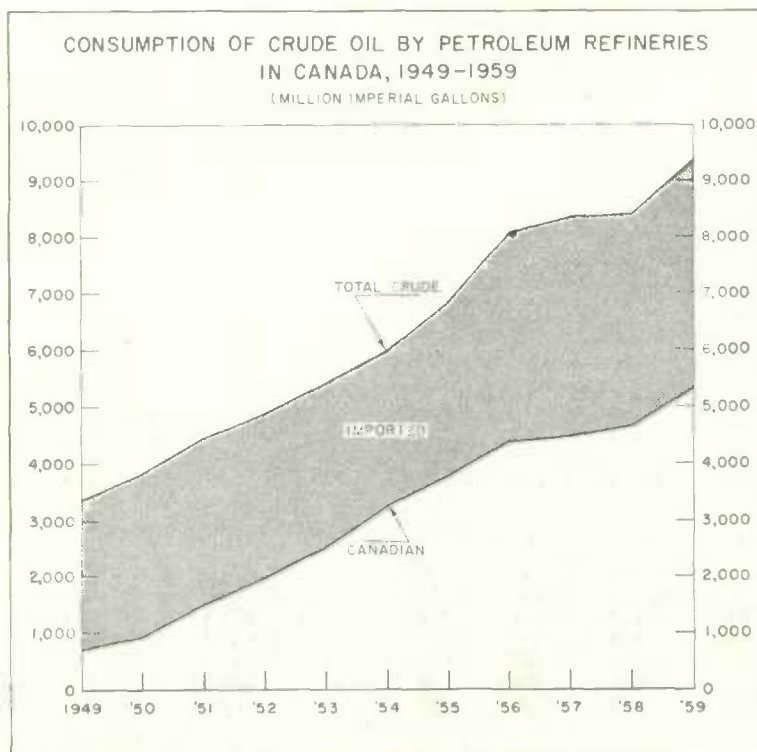


TABLE 14. Consumption of Crude Oil in Petroleum Refineries, showing Canadian and Imported Separately, 1950 - 59

Year	Canadian ¹	Imported ²	Total
		Imperial gallons	
1950	933,323,159	2,886,676,665	3,819,999,824
1951	1,500,254,636	2,947,368,272	4,447,622,908
1952	1,983,050,133	2,892,977,452	4,876,027,585
1953	2,507,927,775	2,896,594,489	5,404,522,264
1954	3,263,312,419	2,722,901,936	5,986,214,355
1955	3,791,771,419	3,035,196,281	6,826,967,700
1956	4,395,193,712	3,700,839,018	8,096,032,730
1957	4,480,601,496	3,879,293,938	8,359,895,434
1958	4,674,150,880	3,726,063,565	8,400,214,445
1959	5,325,006,015	4,045,982,220	9,370,988,235

¹ Includes the crude naphtha and absorption gasoline from Canadian wells which were run to refinery stills.

² Includes reduced crude.

**TABLE 15. Casinghead Gasoline Imported and Used for Blending at the Refineries, 1959
(These items not included in previous tables)**

Imported natural casinghead gasoline received at the refinery during the year	—
Imported natural casinghead gasoline used for blending during year	—
Total stocks of imported natural casinghead gasoline at the end of the year	—

TABLE 16. Stocks on Hand at the Refineries at the End of 1959

	Stocks on hand at refineries on December 31, 1959	Increase or decrease compared with December 31, 1958
	barrels	
Crude oil and naphtha, in its natural state, from Canadian wells	3,839,373	+ 37,700
Absorption gasoline, etc., from Canadian wells	17,630	+ 3,586
Crude oil, imported:		
In its natural state	4,046,598	+ 30,259
Not in its natural state	294,259	+ 274,188
Total crude	8,197,860	+ 345,733
Naphtha specialties	282,382	+ 137,207
Aviation gasoline	552,463	- 13,675
Motor gasoline	10,727,745	+ 607,353
Aviation turbine fuel	556,128	+ 154,120
Kerosene, store oil (No. 1 fuel oil) and tractor fuel	1,808,042	+ 183,319
Diesel fuel	2,807,201	+ 320,557
Light fuel oils (Nos. 2 and 3)	7,079,123	+1,158,038
Heavy fuel oils (Nos. 4, 5 and 6)	4,592,921	+ 274,467
Lubricating oils and greases	541,570	- 13,834
Liquefied petroleum gases (propane, butane, etc.)	338,749	+ 138,150
Petroleum coke	10,762	+ 4,203

TABLE 17. Fuel and Electricity Used in the Petroleum Refining Industry, 1958 and 1959

Kind	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Bituminous coal	2	44	5	122
Coke ¹	336,067	3,825,444	360,121	3,476,652
Gasoline (including gasoline used in cars and trucks) Imp. gal.	845,489	190,510	860,601	170,578
Fuel oil (including kerosene or coal oil)	260,882,703	19,265,253	322,426,129	19,664,240
Gas (a) Liquefied petroleum gases	10,437,031	779,132	46,874,636	3,531,927
(b) Other manufactured gas	42,370,856	18,201,727	39,359,363	15,226,687
(c) Natural gas	9,799,131	1,513,223	10,706,583	1,665,577
Other fuel	...	16,323	...	...
Electricity purchased	802,977,022	6,033,916	1,022,482,136	7,133,181
Steam purchased	—	368,620	..	29,970
Totals	...	50,194,192¹	...	50,898,934¹

¹ The totals for 1958 and 1959 include some catalytic carbon which was not reported in previous years.

TABLE 18. Production of Crude Petroleum, by Provinces, 1958 and 1959

Province	1958		1959	
	Barrels	Value	Barrels	Value
		\$		\$
New Brunswick	15,189	21,265	14,479	20,271
Ontario	778,341	2,623,000	1,001,580	3,194,000
Manitoba	5,829,226	14,415,676	5,056,075	11,619,872
Saskatchewan	44,626,148	96,704,863	47,442,498	97,731,546
Alberta	113,277,847	283,262,592	129,967,312	306,917,803
British Columbia	512,359	1,022,156	866,234	1,583,129
Northwest Territories	457,086	698,266	430,319	1,025,914
Canada	165,496,196	398,747,818	184,778,497	422,092,535

TABLE 19. World Crude Oil Production, 1958 - 60

	1958	1959	1960
	thousands of barrels daily		
North America:			
United States	6,704.0	7,050.0	7,017.0
Canada	452.0	500.8	522.5
Mexico	265.4	266.4	271.2
Totals	7,421.4	7,817.2	7,801.7
South America:			
Venezuela	2,608.5	2,769.4	2,848.0
Colombia	127.6	142.5	145.0
Argentina	93.4	117.5	160.2
Trinidad	101.4	112.0	118.0
Peru	53.5	50.2	52.3
Ecuador	8.9	8.0	7.7
Chile	14.7	17.3	19.7
Brazil	50.4	64.5	85.0
Bolivia	9.4	8.4	8.9
Cuba	1.0	0.6	.3
Totals	3,066.7	3,290.4	3,445.1
Western Hemisphere	10,488.1	11,107.6	11,255.8
Europe and Africa:			
Sahara	—	16.6	185.0
Austria	53.3	45.3	45.1
Germany (West)	84.8	98.6	107.4
Netherlands	29.5	32.0	36.7
France	26.7	27.7	38.1
Algeria	8.9	—	—
French Morocco	1.5	1.9	2.0
Italy and Sicily	29.0	31.0	42.3
United Kingdom	1.7	1.7	1.7
Gabon	8.6	13.5	15.3
Nigeria	5.2	8.4	17.3
Angola	—	0.8	1.2
Germany (East)	—	8.0	.9
Totals (excluding U.S.S.R. and satellites)	249.2	277.5	493.0
U.S.S.R.	2,271.4	2,550.0	2,900.0
Romania	228.4	231.0	234.0
Hungary	16.4	14.1	20.0
Poland	3.7	3.7	3.7
Albania	9.0	9.0	11.1
Czechoslovakia	2.6	2.6	2.6
Yugoslavia	8.4	10.1	12.1
Bulgaria	—	5.9	5.0
Totals	2,539.9	2,834.4	3,188.5
Totals, Europe and Africa	2,789.1	3,111.9	3,681.5
Near and Middle East:			
Kuwait	1,393.2	1,390.0	1,520.0
Saudi Arabia	1,013.2	1,070.1	1,230.0
Iraq	736.3	826.0	1,040.0
Iran	826.2	855.0	1,202.0
Qatar	169.8	172.1	181.0
Egypt	54.6	58.8	86.8
Bahrain	39.8	45.1	45.0
Neutral zone	86.3	114.7	134.0
Turkey	6.2	7.0	6.8
Israel	—	2.5	2.0
Totals	4,325.6	4,541.3	5,447.6

TABLE 19. World Crude Oil Production, 1958-60 - Concluded

	1958	1959	1960
	thousands of barrels daily		
Far East and Oceania:			
Indonesia	310.0	341.0	391.0
British Borneo	117.2	104.3	93.1
Japan	6.1	7.6	9.9
India	8.9	8.9	10.1
New Guinea	4.8	5.1	4.4
Pakistan	5.4	9.8	6.2
Burma	7.9	10.2	10.5
China	35.0	60.5	45.0
Totals	495.3	547.4	570.2
Eastern Hemisphere	7,610.0	8,193.3	9,699.3
World totals	18,098.1	19,300.9	20,953.0

TABLE 20. Crude Oil Production by Principal Nations and Hemispheres, 1958-60

	1958	1959	1960
	per cent		
Principal Nations:			
United States	37.0	36.4	33.4
Venezuela	14.4	14.3	13.6
U.S.S.R.	12.6	13.2	13.8
Kuwait	7.6	7.2	7.2
Saudi Arabia	5.6	5.5	5.8
Iraq	4.0	4.3	4.9
Canada	2.5	2.6	2.5
Iran	4.7	4.4	5.7
Mexico	1.4	1.4	1.3
Indonesia	1.8	1.8	1.8
Romania	1.3	1.2	1.1
British Borneo	0.7	0.5	0.4
Western Hemisphere	57.9	57.5	53.7
North America	40.9	40.5	37.2
South America	17.0	17.0	16.4
Eastern Hemisphere	40.5	42.2	46.2
Middle East	23.8	23.5	25.9
Oceania and Far East	2.9	2.8	2.7
Europe (including U.S.S.R.)	13.8	15.9	17.5

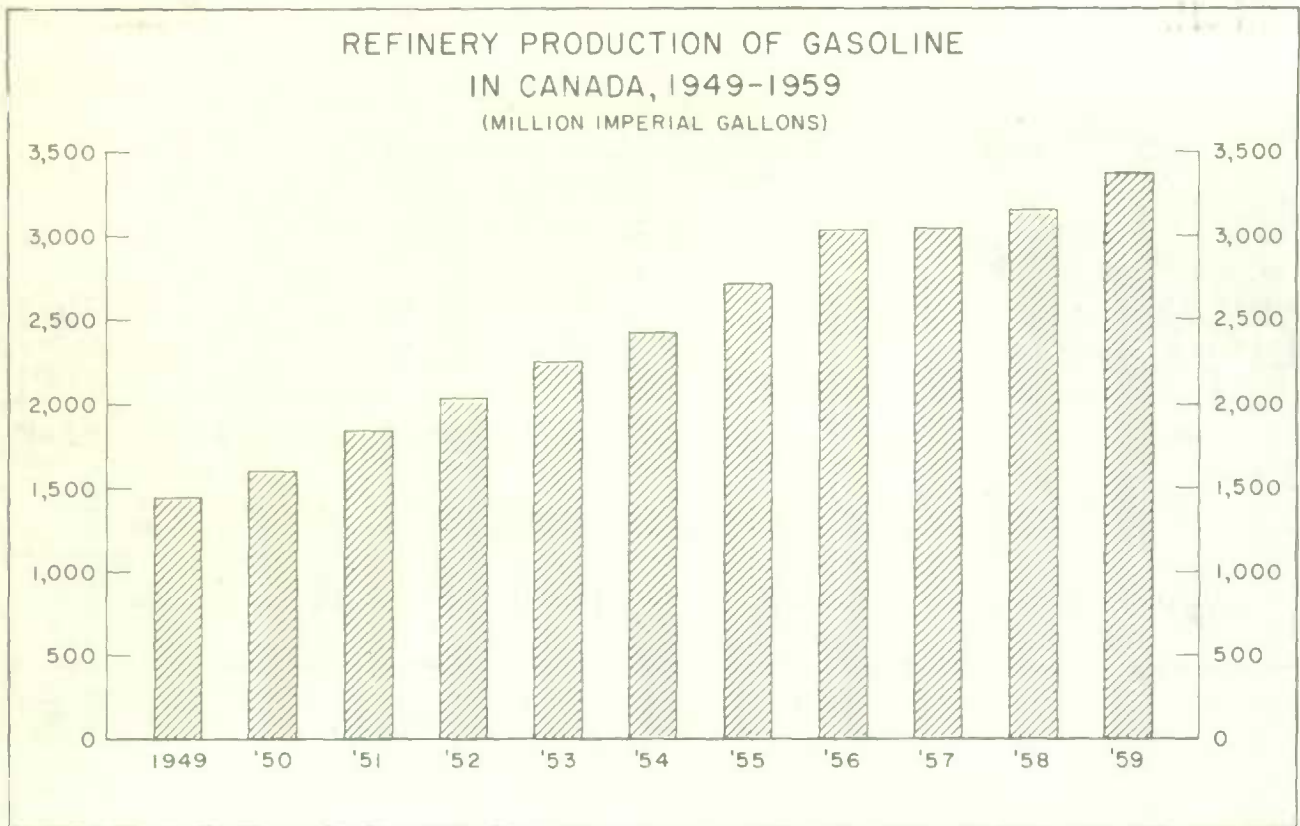
Note: 1 barrel = 35 Imperial gallons.

Source: Data for Tables 19 and 20 were extracted from "World Petroleum", January, 1961.

TABLE 21. Refinery Production¹ of Gasoline, 1950-59

Year	Motor gasoline	Aviation gasoline	Total
	Imperial gallons		
1950	1,587,289,365	12,806,539	1,600,095,904
1951	1,830,003,975	14,303,616	1,844,307,591
1952	2,026,559,850	16,469,603	2,043,029,453
1953	2,231,373,398	21,061,411	2,252,434,809
1954	2,398,748,504	17,282,637	2,416,031,141
1955	2,683,592,445	25,749,699	2,709,341,144
1956	3,004,642,860	26,558,892	3,031,201,752
1957	3,020,182,008	20,763,838	3,040,945,846
1958	3,126,518,535	23,655,450	3,150,173,985
1959	3,343,165,070	23,728,705	3,366,893,775

¹ Includes production made for own use.

**TABLE 22. Gross Sales¹ of Gasoline, by Provinces and Yukon Territory, 1956-59**

Province	1956	1957	1958	1959
	thousands of Imperial gallons			
Newfoundland ²	24, 242	25, 527	28, 027	30, 443
Prince Edward Island ²	14, 325	14, 294	16, 153	17, 854
Nova Scotia ²	91, 134	94, 852	99, 662	104, 251
New Brunswick ²	81, 178	83, 718	95, 159	101, 261
Quebec.....	611, 829	660, 810	721, 348	755, 248
Ontario ²	1, 198, 569	1, 237, 723	1, 295, 797	1, 341, 210
Manitoba.....	200, 314	219, 559	225, 701	225, 913
Saskatchewan.....	269, 662	280, 458	286, 608	283, 964
Alberta.....	383, 609	402, 561	442, 192	474, 002
British Columbia.....	298, 957	324, 972	325, 270	345, 371
Yukon ³ and Northwest Territories ⁴	4, 246	4, 735	8, 940	11, 519
Total gross sales.....	3, 178, 065	3, 349, 209	3, 544, 857	3, 691, 035

¹ Sold for internal combustion purposes.² Gross sales of motor and tractor grades only.³ First reported in January, 1956.⁴ Included for the first time in 1958.

TABLE 23. Gross Sales¹ of Gasoline, by Months, 1956 - 59

Month	1956	1957	1958	1959
thousands of Imperial gallons				
January	198,476	227,582	226,029	229,745
February	193,647	206,814	217,933	238,887
March	214,178	230,537	239,215	260,727
April	216,651	246,886	268,910	278,447
May	303,191	323,717	330,885	322,470
June	306,176	302,048	321,278	350,407
July	318,234	349,483	355,740	378,873
August	328,676	351,037	361,471	367,406
September	295,979	308,444	335,364	356,401
October	310,277	299,204	322,420	323,352
November	256,198	254,182	275,594	287,244
December	236,382	249,275	290,018	297,076
Totals	3,178,065	3,349,209	3,544,857	3,691,035

¹ Sold for internal combustion purposes.

TABLE 24. Gross Sales of Gasoline, by Months and by Provinces, and Yukon Territory 1959 and Totals for 1958

Month	New-found-land ¹	Prince Edward Island ¹	Nova Scotia	New Brunswick	Quebec	Ontario ²
thousands of Imperial gallons						
January	1,708	835	6,264	6,129	49,743	88,485
February	1,481	806	6,103	6,227	50,417	87,527
March	1,880	897	6,801	6,460	51,648	95,360
April	1,926	979	7,114	6,873	52,729	103,080
May	2,226	1,828	9,222	8,502	65,118	115,072
June	2,939	1,834	9,577	9,295	67,831	126,317
July	3,359	2,170	11,103	11,265	78,040	136,210
August	3,026	2,156	11,080	10,716	72,014	130,450
September	2,988	1,950	10,144	10,014	72,021	124,605
October	3,129	1,802	9,375	9,215	70,809	118,699
November	2,681	1,394	8,303	8,035	60,364	106,324
December	3,100	1,203	9,165	8,530	64,514	109,081
Totals for 1959	30,443	17,854	104,251	101,261	755,248	1,341,210
Totals for 1958	28,027	16,153	99,662	95,159	721,348	1,295,797
	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and Northwest Territories	Total
January	12,936	12,291	29,047	21,538	769	229,745
February	13,731	14,222	31,402	26,247	723	238,887
March	14,934	18,564	34,791	28,386	1,008	260,727
April	17,849	23,921	36,669	26,272	1,035	278,447
May	19,824	30,043	41,509	28,250	877	322,470
June	22,670	30,843	44,357	33,529	1,214	350,407
July	24,436	31,330	45,923	33,722	1,316	378,873
August	24,045	34,388	44,121	34,142	1,266	367,406
September	24,712	31,803	47,835	29,479	852	356,401
October	17,264	19,737	41,133	31,144	1,045	323,352
November	16,898	19,191	37,664	25,705	685	287,244
December	16,614	17,631	39,551	26,957	729	297,076
Totals for 1959	225,913	283,964	474,002	345,371	11,519	3,691,035
Totals for 1958	225,701	286,608	442,192	325,270	8,940	3,544,857

¹ Gross sales of motor and tractor grades only.

² Includes sales of aviation and turbo fuels since May 1, 1958.

TABLE 25. Net Sales¹ of Gasoline, by Provinces, and Yukon Territory, 1956 - 59

Province	1956	1957	1958	1959
	thousands of Imperial gallons			
Newfoundland	23, 109	24, 224	25, 904	28, 120
Prince Edward Island	10, 367	9, 785	11, 418	14, 288
Nova Scotia	76, 909	80, 496	84, 077	89, 979
New Brunswick	66, 637	70, 341	81, 828	85, 844
Quebec	552, 503	593, 260	631, 480	665, 436
Ontario	1, 000, 391	1, 062, 519	1, 104, 513	1, 164, 944
Manitoba	114, 879	117, 441	121, 451	129, 912
Saskatchewan	143, 446	157, 726	166, 901	170, 103
Alberta	222, 042	237, 183	246, 526	245, 016
British Columbia	244, 062	270, 122	251, 119	263, 408
Yukon Territory	2, 643	2, 994	6, 739	7, 984
Canada	2, 456, 988	2, 626, 091	2, 731, 958	2, 865, 034

¹ Gross sales less gasoline exempt from tax or on which tax is refunded.

TABLE 26. Provincial Government Receipts from Gasoline Taxes, by Provinces, 1956 - 59

Province	1956	1957	1958	1959
	dollars			
Newfoundland	3, 894, 083	4, 054, 881	4, 651, 523	5, 048, 813
Prince Edward Island	1, 425, 452	1, 883, 246	2, 186, 929	2, 885, 184
Nova Scotia	13, 125, 184	13, 801, 492	14, 526, 162	15, 350, 353
New Brunswick	10, 670, 712	10, 892, 134	11, 445, 325	12, 011, 748
Quebec	78, 026, 440	84, 727, 249	88, 787, 601	93, 619, 343
Ontario	112, 940, 735	143, 218, 806	151, 389, 717	158, 446, 490
Manitoba	12, 178, 334	13, 326, 896	14, 162, 444	15, 174, 459
Saskatchewan	16, 221, 617	18, 944, 253	19, 924, 190	20, 633, 494
Alberta	22, 256, 815	23, 902, 404	24, 468, 867	24, 960, 299
British Columbia	23, 967, 910	25, 642, 375	26, 602, 573	28, 351, 287
Yukon and Northwest Territories	332, 392	268, 821	209, 094	247, 025
Total receipts	295, 039, 674	340, 662, 557	358, 354, 425	376, 728, 495

TABLE 27. Revenues from Motor Vehicle Registrations and Gasoline Taxes, 1950 - 59

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
	dollars			dollars	
1950	67, 185, 528	155, 146, 585	1955	113, 519, 484	264, 407, 817
1951	73, 707, 694	178, 505, 307	1956	127, 809, 526	295, 039, 674
1952	81, 119, 360	196, 885, 566	1957	139, 750, 497	340, 662, 557
1953	87, 788, 069	219, 876, 095	1958	146, 048, 716	358, 354, 425
1954	93, 849, 956	235, 702, 205	1959	162, 074, 455	376, 728, 495

TABLE 28. Registrations of Motor Vehicles, by Provinces, 1956 - 59

Province	1956	1957	1958	1959
	number			
Newfoundland	45,768	47,655	51,265	51,145
Prince Edward Island	20,779	21,193	22,781	27,502
Nova Scotia	151,764	156,498	157,047	189,435
New Brunswick	110,963	116,350	121,378	129,629
Quebec	824,908	881,047	968,661	1,040,366
Ontario	1,710,240	1,793,499	1,868,922	1,973,737
Manitoba	233,848	244,342	249,860	269,974
Saskatchewan	291,053	300,094	314,178	326,690
Alberta	381,153	405,229	430,081	456,458
British Columbia	450,547	487,533	506,542	545,491
Yukon and Northwest Territories	5,451	6,155	6,845	7,259
Canada	4,226,474	4,459,595	4,675,560	5,017,686

TABLE 29. Registrations of Motor Vehicles, by Types, 1959

Province	Passenger cars	Motor trucks	Motor buses	Motor-cycles	Truck tractors	Other motor vehicles	Total
	number						
Newfoundland	38,189	12,956	..	..	1	..	51,145
Prince Edward Island	17,408	7,056	10	119	1	2,909	27,502
Nova Scotia	140,196	39,273	819	1,002	1	8,145	189,435
New Brunswick	98,523	24,202	536	879	1	5,489	129,629
Quebec	798,935	190,358	5,464	12,828	1	32,781	1,040,366
Ontario	1,573,365	385,088	5,198	10,086	1	1	1,973,737
Manitoba	199,467	66,280	192	1,536	1	2,499	269,974
Saskatchewan	207,612	114,822	661	767	2,561	267	326,690
Alberta	315,057	135,229	3,367	2,805	1	1	456,458
British Columbia	419,422	117,333	1	4,128	1	4,608	545,491
Yukon and Northwest Territories	4,248	2,596	33	17	223	142	7,259
Canada	3,812,422	1,095,193	16,280²	34,167²	2,784	56,840²	5,017,686

¹ Included with trucks.² Figures not complete.TABLE 30. Petroleum Coke: Deliveries for Consumption, 1958 and 1959
(Used as fuel only - not as manufacturing materials)

Fuel for domestic and industrial heating	1958	1959
	tons	
Atlantic provinces	—	—
Quebec	—	—
Ontario	3,279	2,691
Manitoba	—	—
Saskatchewan	—	—
Alberta and Northwest Territories	—	—
British Columbia and Yukon	—	—
Totals	3,279	2,691

TABLE 31. Principal Statistics of the Lubricating Oils and Greases Industry, 1955 - 59

Year	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	Gross selling value of products ¹
	number		dollars				
1955	13	285	1,069,308	129,152	9,885,133	5,279,922	15,294,207
1956	13	295	1,131,515	132,692	10,470,114	6,325,947	16,767,832
1957	13	270	1,132,624	146,319	10,788,444	5,965,057	16,777,283
1958	15	280	1,183,922	123,673	11,305,690	7,512,903	17,662,168
1959	14	277	1,274,263	149,693	12,334,215	5,524,306	18,150,360

¹ See note to text, page 6.

TABLE 32. Principal Statistics of the Lubricating Oils and Greases Industry, by Provinces, 1958 and 1959

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
	number		dollars				
1958							
Quebec	3	61	249,430	35,332	3,196,075	2,958,845	6,068,272
Ontario	8	188	808,017	77,788	6,421,184	4,128,793	9,542,237
Manitoba	1	31	126,475	10,553	1,688,431	425,265	2,051,659
Saskatchewan	1						
Alberta	2						
Canada	15	280	1,183,922	123,673	11,305,690	7,512,903	17,662,168
1959							
Ontario	8	188	890,117	103,621	7,029,157	2,281,916	9,427,854
Quebec	2	89	384,146	46,072	5,305,058	3,242,390	8,722,506
Manitoba	1						
Saskatchewan	1						
Alberta	2						
Canada	14	277	1,274,263	149,693	12,334,215	5,524,306	18,150,360

¹ See note to text, page 6.

TABLE 33. Products made in the Lubricating Oils and Greases Industry, 1958 and 1959

Product	1958		1959		
	Quantity	Value of factory shipments	Quantity	Value of factory shipments	
		\$		\$	
Greases, lubricating	lb.	17,711,262	2,263,221	21,356,595	2,478,747
Oils, lubricating	gal.	17,954,082	15,283,038	19,448,750	15,297,307
All other products .....	...	...	115,909	...	374,306
Totals .....	...	...	17,662,168	...	18,150,360

**TABLE 34. Deliveries of Petroleum Fuels for Consumption, Calendar Year 1959
as Reported by Refiners and Distributors**

No.		Atlantic Provinces	Quebec	Ontario
		barrels of 35 Imperial gallons		
	(a) Heavy (No.6), Medium (No.5,) and Naval (No.4) fuel oils:			
1	To railways in Canada	317,037	265,742	86,620
2	To ships for bunkering and to own tankers	1,718,294	4,819,903	1,171,710
3	To industrial accounts	3,383,163	9,338,614	8,904,705
4	For heating	409,725	3,683,949	1,960,052
5	To government accounts ¹	231,226	825,440	178,928
6	For all other purposes	284	131,683	393,390
7	Totals for Section (a)	6,059,729	19,065,331	12,695,405
	(b) Heavy (No.3) and Light (No.2):			
8	To railways in Canada	11,604	65,177	48,034
9	To ships for bunkering and to own tankers	—	18,669	126,144
10	To industrial accounts	341,833	1,195,510	2,073,057
11	For heating	4,154,418	13,354,321	24,490,710
12	To government accounts ¹	221,300	269,158	279,186
13	For all other purposes	—	268,246	650,347
14	Totals for Section (b)	4,729,155	15,171,081	27,667,478
	(c) Diesel fuel:			
15	To railways in Canada	1,061,338	2,174,694	2,825,525
16	To ships for bunkering and to own tankers	1,008,587	1,432,259	119,130
17	To industrial accounts	373,596	608,199	863,625
18	For Heating	13,719	69,695	233,746
19	For tractors and other motor vehicles, as fuel	187,487	927,849	783,200
20	To government accounts ¹	275,444	287,038	176,906
21	For all other purposes	233	288,388	288,299
22	Totals for Section (c)	2,920,404	5,788,122	5,290,431
	(d) Stove oil (No.1) Tractor fuel, Kerosene and Illuminating oils:			
23	To railways in Canada	9,802	35,266	17,292
24	To ships for bunkering and to own tankers	—	1,223	204
25	To industrial accounts	102,784	128,799	159,075
26	For heating	2,588,382	4,915,785	4,321,523
27	For tractors and other motor vehicles, as fuel	—	3,632	3,309
28	To government accounts ¹	37,949	22,673	20,915
29	For all other purposes	829	215,926	82,270
30	Totals, for Section (d)	2,739,746	5,323,304	4,604,588
	(e) Combined totals of Sections (b), (c) and (d):			
31	To railways in Canada	1,082,744	2,275,137	2,890,851
32	To ships for bunkering and to own tankers	1,008,587	1,452,151	245,478
33	To industrial accounts	818,213	1,932,508	3,095,757
34	For heating	6,756,519	18,339,801	29,045,979
35	For tractors and other motor vehicles, as fuel	187,487	931,481	786,509
36	To government accounts ¹	534,693	578,869	477,007
37	For all other purposes	1,062	772,560	1,020,916
38	Total deliveries of all light liquid fuels, all uses	10,389,305	26,282,507	37,562,497
	(f) Combined totals of Section (a), (b), (c) and (d):			
39	To railways in Canada	1,399,781	2,540,879	2,977,471
40	To ships for bunkering and to own tankers	2,726,881	6,272,054	1,417,188
41	To industrial accounts	4,201,376	11,271,122	12,000,462
42	For heating	7,166,244	22,023,750	31,006,031
43	For tractors and other motor vehicles, as fuel	187,487	931,481	786,509
44	To government accounts ¹	765,919	1,404,309	655,935
45	For all other purposes	1,346	904,243	1,414,306
46	Total deliveries of all liquid fuels, all uses	16,449,034	45,347,838	50,257,902
	(g) Petroleum coke:			
47	For domestic and industrial heating	—	—	2,691
48	For industrial purposes, as material	—	219,024	234,407
49	Total deliveries of petroleum coke	—	219,024	237,098

¹ Federal and provincial only.

TABLE 34. Deliveries of Petroleum Fuels for Consumption, Calendar Year, 1959
as Reported by Refiners and Distributors

Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	Canada	Percent of section total	No.
barrels of 35 Imperial gallons						
410,183	499,334	900,094	111,681	2,590,691	5.3	1
27,269	—	8	1,261,321	8,998,505	18.5	2
670,917	741,817	307,292	3,307,319	26,653,827	55.0	3
685,450	279,683	102	800,690	7,819,651	16.1	4
51,139	38,111	25,087	519,287	1,869,218	3.9	5
1,621	35,678	13,231	25,108	600,995	1.2	6
1,846,579	1,594,623	1,245,814	6,025,406	48,532,887	100.0	7
23,868	15,907	15,562	9,951	190,103	.3	8
21	124	1,472	43,493	189,923	.3	9
39,381	87,084	122,793	196,811	4,056,469	7.1	10
2,865,155	1,989,553	680,737	3,219,376	50,754,270	88.4	11
75,984	18,131	163,205	171,951	1,198,915	2.1	12
—	36,081	3,189	55,349	1,013,212	1.8	13
3,004,409	2,146,880	986,958	3,696,931	57,402,892	100.0	14
519,118	741,432	1,544,160	830,872	9,697,139	38.1	15
1,048	79	42,210	734,670	3,337,983	13.1	16
241,302	247,171	915,084	1,095,513	4,344,490	17.1	17
474,447	497,417	157,127	66,849	1,513,000	5.9	18
279,131	768,316	908,295	465,519	4,319,797	16.9	19
242,401	27,104	116,826	276,794	1,402,513	5.5	20
6,158	22,929	126,216	124,581	856,804	3.4	21
1,763,605	2,304,448	3,809,918	3,594,798	25,471,726	100.0	22
7,500	1,559	3,473	16,335	91,227	.6	23
25	—	9	703	2,164	.1	24
65,130	9,340	115,915	191,198	772,241	5.0	25
95,409	66,746	211,671	1,717,417	13,916,933	90.0	26
26,124	21,680	32,944	16	87,705	.5	27
17,328	1,016	9,693	44,137	153,711	1.0	28
3,390	40,032	36,073	56,183	434,703	2.8	29
214,906	140,373	409,778	2,025,989	15,458,684	100.0	30
550,486	758,898	1,563,195	857,158	9,978,469	10.1	31
1,094	203	43,691	778,866	3,530,070	3.6	32
345,813	343,595	1,153,792	1,483,522	9,173,200	9.3	33
3,435,011	2,553,716	1,049,535	5,003,642	66,184,203	67.3	34
305,255	789,996	941,239	465,535	4,407,502	4.5	35
335,713	46,251	289,724	492,882	2,755,139	2.8	36
9,548	99,042	165,478	236,113	2,304,719	2.4	37
4,982,920	4,591,701	5,206,654	9,317,718	98,333,302	100.0	38
960,669	1,258,232	2,463,289	968,839	12,569,160	8.6	39
28,363	203	43,699	2,040,187	12,528,575	8.5	40
1,016,730	1,085,412	1,461,084	4,790,841	35,827,027	24.4	41
4,120,461	2,833,399	1,049,637	5,804,332	74,003,854	50.4	42
305,255	789,996	941,239	465,535	4,407,502	3.0	43
386,852	84,362	314,811	1,012,169	4,624,357	3.1	44
11,169	134,720	178,709	261,221	2,905,714	2.0	45
6,829,499	6,186,324	6,452,468	15,343,124	146,866,189	100.0	46
—	—	—	—	2,691	.5	47
36	—	—	69,823	523,290	99.5	48
36	—	—	69,823	525,981	100.0	49

TABLE 35. Materials Used in the Lubricating Oils and Greases Industry, 1958 and 1959

Material	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Compounding stocks (oils, etc.)..... Imp. gal.	20,622,266	7,171,531	22,017,745	7,601,222
All other materials ¹ .....	..	1,086,432	..	1,529,550
Shipping containers .....	..	3,047,727	..	3,203,443
Totals .....	...	11,305,690	...	12,334,215

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$500,000. The total value of materials used by these firms was \$404,821 and this amount is included in "All Other Materials".

TABLE 36. Sales of Lubricating Oils, 1958 and 1959
(As reported by principal dealers)

	Motor transport and tractor crankcase oils	Aircraft crankcase oils	Other oils except auto gear oils	Auto gear oils including automotive transmission oils	Total sales
	barrels of 35 Imperial gallons				
1958					
Atlantic Provinces ¹	132,404	11,902	73,639	8,488	226,433
Quebec	365,446 ^f	13,496	239,245 ^f	33,854	652,041
Ontario	590,402	8,493	499,067	59,900	1,157,862
Manitoba	116,830	6,297	33,943	9,414	166,484
Saskatchewan	166,657	912	22,403	13,342	203,314
Alberta ²	201,605	5,654	74,624	19,849	301,732
British Columbia ³	176,129	6,677	78,806	12,514	274,126
Canada	1,749,473^f	53,431	1,021,727^f	157,361	2,981,992
1959					
Atlantic Provinces ¹	138,066	12,162	84,014	8,987	243,229
Quebec	367,621	14,784	271,804	29,732	683,941
Ontario	559,229	8,339	555,531	77,114	1,200,213
Manitoba	126,605	5,900	36,535	10,145	179,185
Saskatchewan	160,303	966	25,583	12,858	199,710
Alberta ²	207,466	5,729	84,985	20,081	318,261
British Columbia ³	191,121	6,989	67,778	12,488	278,376
Canada	1,750,411	54,869	1,126,230	171,405	3,102,915

¹ Includes Newfoundland, Prince Edward Island, Nova Scotia and New Brunswick.

² Includes Northwest Territories.

³ Includes Yukon Territory.

TABLE 37. Sales of Lubricating Oils and Greases by Class of Trade, 1959

Product	Retail gasoline pump outlets	Other	Total sales
	barrels of 35 Imperial gallons		
Lubricating oil:			
Atlantic Provinces ¹	82,186	152,056	234,242
Quebec	192,430	461,779	654,209
Ontario	314,902	808,197	1,123,099
Manitoba	35,194	133,846	169,040
Saskatchewan	44,750	142,102	186,852
Alberta ²	67,306	230,874	298,180
British Columbia ³	77,201	188,687	265,888
Canada	813,969	2,117,541	2,931,510
Grease:⁴			
Atlantic Provinces ¹	4,541	6,989	11,530
Quebec	15,218	22,817	38,035
Ontario	10,532	38,825	49,357
Manitoba	1,295	8,865	10,160
Saskatchewan	2,057	15,324	17,381
Alberta ²	3,137	14,739	17,876
British Columbia ³	2,728	10,759	13,487
Canada	39,508	118,318	157,826
Gear oil (including automatic transmission oils):			
Atlantic Provinces ¹	3,785	5,202	8,987
Quebec	12,335	17,397	29,732
Ontario	18,691	58,423	77,114
Manitoba	3,288	6,857	10,145
Saskatchewan	4,000	8,858	12,858
Alberta ²	5,212	14,869	20,081
British Columbia ³	4,066	8,422	12,488
Canada	51,377	120,028	171,405

¹ Includes Newfoundland, Prince Edward Island, Nova Scotia and New Brunswick.

² Includes North West Territories.

³ Includes Yukon Territory.

⁴ Includes greases at 10 pounds to a gallon.

TABLE 38. Employees and their Earnings in the Lubricating Oils and Greases Industry, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1958								
Ontario	47	17	124	—	188	287,641	520,376	808,017
Other provinces	14	9	68	1	92	104,595	271,310	375,905
Canada	61	26	192	1	280	392,236	791,686	1,183,922
1959								
Ontario	44	15	129	—	188	302,393	587,724	890,117
Other provinces	14	9	65	1	89	102,567	281,579	384,146
Canada	58	24	194	1	277	404,960	869,303	1,274,263

**TABLE 39. Production Workers in the Lubricating Oils and Greases Industry,
by Month, 1959**

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	168	1
February	168	1
March	171	1
April	177	1
May	183	1
June	186	1
July	192	1
August	188	1
September	175	1
October	180	1
November	178	1
December	179	1
Average for establishments reporting monthly detail	179	1
Average estimated for small establishments ²	15	—
Average for all establishments	194	1

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over.

² For establishments generally reporting value of shipments of less than \$500,000 no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 40. Fuel and Electricity Used in the Lubricating Oils and Greases Industry, 1959

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 10,824	4,045
Fuel oil including kerosene or coal oil	" 1,013,816	94,527
Gas (a) Other manufactured gas	M cu. ft. 1,431	1,793
(b) Natural gas	" 69	128
Electricity purchased	kwh. 3,120,976	34,727
Steam purchased .....	..	785
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	13,688
3. All establishments:		
Total cost of fuel and electricity .....	...	149,693

¹ Establishments generally reporting value of shipments of \$500,000 and over.

² Establishments generally reporting value of shipments of less than \$500,000.

TABLE 41. Principal Statistics of the Absorption Gasoline Industry, 1955 - 59

Year	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
	number		dollars				
1955	8	174	791, 114	150, 650	2, 670, 049	4, 379, 679	7, 200, 378
1956	7	141	690, 330	299, 340	3, 329, 277	4, 749, 492	8, 407, 715
1957	10	270	1, 408, 882	424, 412	5, 246, 689	5, 890, 529	11, 344, 465
1958	14	411	2, 093, 033	734, 331	9, 501, 032	8, 374, 834	17, 509, 526
1959	14	461	2, 525, 833	918, 608	7, 169, 778	9, 354, 126	17, 363, 197

¹ See note to text, page 6.

TABLE 42. Products Made in the Absorption Gasoline Industry, 1958 and 1959

Product	1958		1959	
	Quantity	Selling value at works	Quantity	Value of shipments
		\$		\$
Dry gas ¹ M cu. ft.	101, 851, 474	7, 619, 430	70, 042, 447	7, 151, 925
Natural gasoline and condensate..... Imp. gal.	63, 560, 053	5, 026, 474	64, 510, 274	4, 868, 257
Liquefied petroleum gases (propane and butane)..... "	56, 846, 881	2, 214, 657	69, 167, 544	2, 738, 128
Sulphur..... ton	143, 711	2, 610, 783	142, 547	2, 555, 169
All other products .....	...	38, 182	...	49, 718
Totals .....	...	17, 509, 526	...	17, 363, 197

¹ Figures for this item should not be added to the production data shown for natural gas in the mineral production statistics for Canada. The latter compilation includes the wet gas transferred to absorption plants.

TABLE 43. Production of Natural Gasoline in Alberta, 1957 - 59

	1957	1958	1959
	barrels		
Production - by fields:			
Acheson	19, 561	16, 035	18, 233
Bonnie Glen	147, 015	108, 439	143, 856
Cessford	-	5, 725	48, 969
Hussar	-	-	4, 493
Jumping Pound	67, 620	76, 379	73, 861
Leduc-Woodbend	123, 702	126, 746	120, 901
Morinville	20, 281	34, 895	49, 666
Nevis	38, 289	39, 877	42, 064
Pembina	-	60, 098	359, 927
Redwater	45, 275	34, 791	36, 982
Turner Valley	506, 419	475, 100	496, 773
Wayne Rosedale	-	-	1, 254
Totals, Alberta	968, 162	978, 085	1, 396, 979

TABLE 44. Employees and their Earnings in Absorption Gasoline Plants, 1958 and 1959

Total employees	1958	1959
	number	
Supervisory and office employees:		
Male	69	63
Female	7	2
Totals	76	65
Production workers:		
Male	334	394
Female	1	2
Totals	335	396
Total employees	411	461
Salaries	\$ 468,892	457,063
Wages	\$ 1,624,141	2,068,770
Total salaries and wages	\$ 2,093,033	2,525,833

TABLE 45. Production Workers in the Absorption Gasoline Industry, by Months, 1958 and 1959

Month	1958			1959		
	Male	Female	Total	Male	Female	Total
	number					
January	320	—	320	375	1	376
February	322	—	322	373	1	374
March	317	—	317	372	2	374
April	321	—	321	373	2	375
May	327	—	327	371	2	373
June	330	—	330	415	2	417
July	324	—	324	415	2	417
August	326	—	326	413	2	415
September	340	—	340	410	2	412
October	365	—	365	401	2	403
November	367	—	367	397	2	399
December	370	1	371	397	2	399
Averages	334	1	335	394	2	396

TABLE 46. Capital and Repair Expenditures by the Absorption Gasoline Plants, 1955-59

Year	Capital expenditures			Repair and maintenance expenditures			Total capital and repair expenditures
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
	thousands of dollars						
1955	2,550	304	2,854	186	132	318	3,172
1956	8,384	2,075	10,459	165	102	267	10,726
1957	34,511	34	34,545	551	125	676	35,221
1958	38,822	1,343	40,165	657	191	848	41,013
1959 ^P	22,636	1,836	24,472	1,815	170	1,985	26,457

TABLE 47. Fuel and Electricity Used by the Absorption Gasoline Plants, 1958 and 1959

Kind	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Gasoline (including gasoline used in cars and trucks)..... Imp. gal.	5,363	1,783	4,259	1,642
Fuel oil, including kerosene or coal oil	—	—	3,405	835
Liquefied petroleum gases	3,715,179	168,353	1,863,159	128,579
Natural gas	4,103,542	254,777	3,789,316	363,868
Electricity purchased	18,236,855	244,186	25,775,622	362,005
Other fuel .....	..	1,614	..	493
Steam purchased .....	..	67,618	..	74
Totals	—	734,331	—	918,608

TABLE 48. Imports of Petroleum, Asphalt, and their Products, 1958 and 1959

Item	1958		1959	
	Quantity	Value	Quantity	Value
		\$		\$
Asphaltum or asphalt, solid or not..... cwt.	520,366	891,136	708,715	946,802
Asphalt oil for paving	548,927	84,660	922,602	104,429
Oil, imported by miners or mining companies, for the concentration of ores or metals	181,414	267,249	220,570	310,570
Crude petroleum for refining, .8155 specific gravity (42.0 A.P.I.) or heavier at 60°F. M gal.	3,641,358	273,948,487	4,035,103	277,495,191
Petroleum tops; blends of petroleum tops or petroleum products with crude petroleum; all the foregoing .7249 specific gravity (63.7 A.P.I.) or heavier at 60°F. when imported by oil refiners to be refined	63,695,869	4,591,936	—	—
Fuel oil, ex-warehoused, for ships' stores	573,223	36,180	1,413,773	81,860
Aviation gasoline	82,725,591	16,021,346	98,913,474	17,538,376
Kerosene, lighter than .8236 specific gravity at 60°F., n.o.p.	10,375,317	1,215,256	20,597,125	2,346,309
Engine distillate, .8017 specific gravity or heavier at 60°F.	21,566	2,927	13,139	2,984
Gasoline, lighter than .8236 specific gravity at 60°F.	101,323,894	14,210,115	95,052,104	12,960,767
Natural casinghead, compression or absorption gasoline, lighter than .6690 specific gravity (80.0 A.P.I.) at 60°F., when imported by refiners of crude petroleum for blending with gasoline wholly produced in Canada	3,750	297	—	—
Lubricating oils, composed wholly or in part of petroleum and costing less than 25 cents per gallon	19,098,037	3,988,206	27,071,206	5,416,888
Lubricating oils 25 cents and over	15,859,406	6,838,372	13,868,615	6,440,438
Oils, mineral, n.o.p.	912,352	1,108,326	719,003	929,746
Stove oil, No. 1 fuel oil	154,401,947	16,856,871	191,280,769	19,164,851
Light fuel oils, Nos. 2 and 3	246,889,388	25,331,236	311,900,014	29,574,707
Heavy fuel oils, Nos. 4, 5 and 6	262,043,467	16,545,012	435,213,625	23,588,643
Diesel fuel	58,682,479	6,116,369	56,891,796	5,492,970
Petroleum greases and lubricating greases, n.o.p.	15,590,765	1,944,073	16,609,865	2,138,547
Refined petroleum jellies and oils for toilet, medicinal, edible or similar purposes.....	—	752,709	—	834,965
Paraffin wax	44,193,117	2,833,063	48,221,174	2,863,650
Paraffin wax candles	429,636	138,023	438,829	136,772
Products of petroleum, n.o.p.	22,411,607	4,270,474	23,826,168	4,366,512
Liquefied petroleum gases	823,000,000	1,797,200	191,000,000	625,479
Naphtha including solvent naphtha	10,995,070	2,433,003	10,188,897	2,249,336

TABLE 49. Exports of Petroleum and its Products, 1958 and 1959

Item	1958		1959	
	Quantity	Value	Quantity	Value
		\$		\$
Petroleum, crude gal.	1, 108, 780, 000	73, 043, 757	1, 167, 678, 190	74, 541, 292
Oil, coal and kerosene, refined "	6, 586, 908	818, 081	5, 775	1, 201
Gasoline and naphtha "	5, 874, 251	787, 619	18, 923, 118	2, 518, 571
Fuel oil "	15, 444, 131	1, 593, 981	31, 733, 018	2, 886, 847
Lubricating oil "	505, 227	307, 409	236, 972	191, 198
Oil, mineral, n.o.p. "	6, 646	3, 053	49, 155	9, 555
Wax, mineral cwt.	3, 036	38, 188	3, 569	38, 348

TABLE 50. Fuel and Electricity Used in the Petroleum Products Industry, 1959

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal—From Canadian mines ton	5	122
Coke (including catalytic carbon) "	360, 121	3, 476, 652
Gasoline (including gasoline used in cars and trucks) Imp. gal.	875, 684	176, 265
Fuel oil including kerosene or coal oil "	323, 443, 350	19, 759, 602
Gas (a) Liquefied petroleum gases "	48, 737, 795	3, 660, 506
(b) Other manufactured gas M cu. ft.	39, 360, 794	15, 228, 480
(c) Natural gas "	14, 495, 968	2, 029, 573
Other fuel ..... ..	..	493
Electricity purchased kwh.	1, 051, 378, 734	7, 529, 987
Steam purchased ..... ..	..	91, 867
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity ..... ..	...	13, 688
3. All Establishments:		
Total cost of fuel and electricity ..... ..	...	51, 967, 235

¹ Establishments generally reporting value of shipments of \$500,000 and over.² Establishments generally reporting value of shipments of less than \$500,000.

Directory of Operating Petroleum Refineries, 1959

Name of Company	Location of refinery	Crude oil capacity	Type of refinery	Cracking plant	
				Type	Capacity
		bbl. per 24 hours			bbl. per 24 hours
Nova Scotia:					
Imperial Oil Limited	Imperoyal	45,000	S-C	Catalytic	15,000
New Brunswick:					
New Brunswick Oilfields Ltd.	Weldon	300	S	—	—
Quebec:					
British American Oil Co. Limited	Montreal East ..	45,000	S-C	Catalytic	19,800
Imperial Oil Limited	Montreal East ..	71,800	S-C	Thermal and Catalytic	22,000
Shell Oil Company of Canada Ltd.	Montreal East ..	63,000	S-C	Thermal and Catalytic	29,500
Texaco Canada Limited	Montreal East ..	59,000	S-C	Thermal and Catalytic	44,900
Canadian Petrofina Ltd.	Montreal East ..	30,000	S-C	Thermal and Catalytic	17,000
Ontario:					
British American Oil Co. Limited	Clarkson	55,350	S-C	Catalytic	16,200
Canadian Oil Companies Limited	Corunna	50,000	C	Thermal and Catalytic	16,000
Cities Services Refing (Canada) Limited ..	Oakville	20,000	C	Catalytic	7,000
Husky Oil & Refining Ltd. (Riverlake Oils Division)	Fort William	3,500	S	—	—
Imperial Oil Limited	Sarnia	94,000	C	Catalytic	22,000
Regent Refing (Canada) Limited	Port Credit	24,000	C	Thermal and Catalytic	10,000
Sun Oil Company Limited	Sarnia	18,000	C	Catalytic	15,000
Manitoba:					
Anglo-Canadian Oils Ltd.	Brandon	3,200	S	Thermal	1,375
Imperial Oil Limited	East St. Paul ..	18,000	S-C	Catalytic	6,000
North Star Oil Limited	St. Boniface	12,000	S-C	Catalytic	5,177
Saskatchewan:					
British American Oil Co. Limited	Moose Jaw	13,500	S-C	Thermal and Catalytic	5,400
Consumers' Co-operative Refineries Limited	Regina	16,000	S-C	Thermal and Catalytic	5,000
Imperial Oil Limited	Regina	22,500	S-C	Thermal and Catalytic	13,700
Husky Oil & Refining Ltd.	Moose Jaw	3,000	S	—	—
Northern Petroleum Corporation Ltd.	Kamsack	1,000	S	—	—
Royalite Hi-Way Ltd.	Saskatoon	8,000	S-C	Catalytic	2,600
Alberta:					
British American Oil Co. Limited	Edmonton	7,650	S-C	Thermal and Catalytic	3,060
British American Oil Co. Limited	Calgary	6,750	S-C	Thermal	2,250
Anglo American Exploration Ltd.	Hartell	1,500	S-C	Thermal	1,500
Imperial Oil Limited	Calgary	15,500	S-C	Catalytic	7,000
Imperial Oil Limited	Edmonton	28,500	S-C	Thermal and Catalytic	17,100
Texaco Canada Limited	Edmonton	12,000	S-C	Thermal and Catalytic	4,000
Canadian Kodiak Refineries Ltd.	Lloydminster ..	4,000	S	—	—
Husky Oil & Refining Ltd.	Lloydminster ..	7,800	S	—	—
Wainwright Producers & Refiners Ltd.	Wainwright	4,000	S	—	—
North Star Oil Ltd.	Grand Prairie ..	2,500	C	Thermal	900
British Columbia:					
British American Oil Co., Limited	Port Moody	18,000	S-C	Catalytic	8,100
Imperial Oil Limited	Ioco	32,500	S-C	Catalytic	8,100
Royalite Products Ltd.	Kamloops	5,000	S-C	Catalytic	1,420
Shell Oil Company of Canada Ltd.	North Burnaby ..	21,000	S-C	Thermal and Catalytic	12,000
Standard Oil Company of British Columbia Ltd.	North Burnaby ..	18,000	S-C	Catalytic	8,100
Phillips Petroleum Co.	Dawson Creek ..	2,500	S-C	Thermal	1,000
Phillips Petroleum Company	Taylor Flats ...	3,600	C	Thermal	2,100
Northwest Territories:					
Imperial Oil Limited	Norman Wells ...	1,350	S	—	—

Note: S—Skimming, C—Cracking.

**Directory of Plants Engaged in the Compounding of Lubricating Oils and Greases, 1959**

Name of company	Location of plant
Quebec:	
Canadian Oil Companies Ltd.	6010 Notre Dame East, Montreal
Tide Water Oil Company (Canada) Ltd.	9500 St. Lawrence Blvd., Montreal
Ontario:	
Campbell Lubricating Specialties, Ltd.	414 Eastern Ave., Toronto
Kendall Refining Co. of Canada Ltd.	2 Bradpen Road, Toronto
New Surpass Petrochemicals Ltd.	80 Richmond St. W., Toronto
Ontario Gasoline and Oil Co. Ltd.	45 Dickens Ave., Toronto
Ontario Lubricating Company Ltd.	120 Chatham St., Hamilton
Texaco Canada Limited	Toronto
Tide Water Oil Company (Canada) Ltd.	55 Wade Ave., Toronto
Wynn Oil Co. of Canada, Ltd.	23 Rachine Road, Rexdale
Manitoba:	
Tide Water Associated Oil Company (Canada) Ltd.	St. James
Saskatchewan:	
Western Oil Company Limited, The	612 Main St. N., Moose Jaw
Alberta:	
Jet-Lube of Canada	Edmonton
Texaco Canada Limited	Edmonton

List of Absorption Gasoline Plants, 1959

Name of company	Location of plant
British American Oil Company, Limited	Turner Valley, Pincher Creek and Nevis; Alberta
Anglo American Exploration Ltd.	Hartell, Alberta
Imperial Oil Limited	Devon, Alberta; Redwater, Alberta
Jefferson Lake Petrochemicals of Canada Ltd.	Taylor, Peace River North, B.C.
Progas Limited	Winterburn, Alberta
Royalite Oil Company, Limited	Turner Valley, Alberta
Shell Oil Company of Canada, Limited	Jumping Pound, Alberta
Smiley Gas Conservation Plant	Smiley, Sask.
Steelman Gas Limited	Regina, Sask.
Texaco Exploration Company	Pigeon Lake Area, Alberta
Texas Gulf Sulphur Company	Okotoks, Alberta