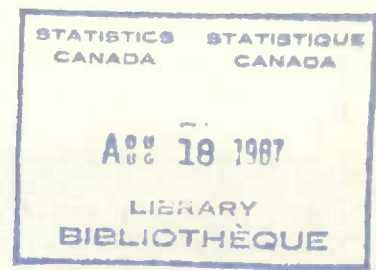


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JUN 8 1955 C.



THE PETROLEUM PRODUCTS INDUSTRY 1953



Published by Authority of
The Right Honourable C. D. Howe, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

6512-621-123

Price 25 cents

Vol. 2—Part XV—C-1

305-24
K.3

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XV, Products of Petroleum and Coal. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Coke and Gas Industry, 25¢
- C—The Petroleum Products Industry, 25¢
- D—The Miscellaneous Products of Petroleum and Coal Industry, 25¢

THE PETROLEUM PRODUCTS INDUSTRY

1953

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., and (b) the blending or compounding of lubricating oils and greases. In 1952 another industry comprising 5 absorption gasoline plants, which recover the naphtha content of natural gas, was added to this group.

Thirty-seven refineries, 13 blending plants and 5 absorption gasoline plants, or a total of 55 works, reported under this category in 1953 and the aggregate value of production was \$694,988,605, an in-

crease of 5.2 per cent over the 1952 total of \$660,356,584.

Output figures for 1953 included \$679,960,932 for petroleum refineries, \$10,391,128 for concerns engaged in blending oils and greases and \$4,636,545 for absorption plants, against corresponding totals in 1952 of \$643,151,105, \$12,320,823 and \$4,884,656 respectively. The principal statistics for each of these groups and for the industry as a whole are tabulated in Tables 1 and 2, and the detailed figures for each division are recorded separately in the succeeding pages of this report.

(a) The Petroleum Refining Industry, 1953

The 37 petroleum refineries which operated in Canada during 1953 were distributed by provinces as follows: 4 in Quebec, 5 in Ontario, 4 in Manitoba, 8 in Saskatchewan, 10 in Alberta, 3 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 509,300 barrels of crude oil per day of which Quebec had 180,000 barrels or 35.3 per cent; Ontario, 119,500 barrels or 23.5 per cent; Alberta, 70,100 barrels or 13.8 per cent; Saskatchewan, 53,800 barrels or 10.6 per cent; British Columbia, 45,850 barrels or 9.0 per cent; Manitoba, 20,500 barrels or 4.0 per cent; Nova Scotia, 18,000 barrels or 3.5 per cent; the Northwest Territories, 1,250 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 2,896,594,489 gallons of imported crude oil and 2,507,927,775 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 5,404,522,264 gallons, was put through Canadian refineries, this amounting to about 84 per cent of the rated year-end capacity. Of the total crude input about 9.8 per cent was imported from the United States and nearly 43.8 per cent from other countries while about 46.4 per cent came from Canadian wells. The total cost at refineries of all crude oil and naphtha charged to stills during the year was \$469,698,590. Stocks of crude oil held at the refineries on December 31st amounted to 257,820,014 gallons.

Refinery production of gasoline amounted to 2,252,434,809 gallons, and, in addition, the refineries used for blending about 25,224,578 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage made in 1953 was 10 per cent over 1952 which, in

turn, was 11 per cent over 1951. The refinery selling value of the gasoline made during the year was \$354,066,795. Stocks of gasoline held by the refineries on December 31st, included 219,773,492 gallons of motor or aviation gasoline and 3,502,580 gallons of imported casinghead gasoline. In 1953 there was an output of 20,419,820 gallons of natural gasoline from absorption plants in Alberta. This was practically all sold to refineries and is included with the gallonage charged to stills, and the refined gasoline made therefrom is included in the refinery output figures.

Imports of gasoline, including casinghead, amounted to 291,608,276 gallons during 1953, while exports, including re-exports, totalled 166,721 gallons. Sales, as reported to the Bureau, amounted to 2,548,696,000 gallons, this figure being compiled from returns made to provincial governments in connection with tax payments.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 2,582,250,988 gallons of which 2,398,516,445 gallons were made for sale and 183,734,543 gallons for use as fuel in the producing plants. Imports amounted to 767,166,373 gallons and exports, including re-exports, totalled 5,540,806 gallons. Producers' stocks of all fuel oils declined by 7,509,322 gallons to 352,128,025 gallons at the end of the year. Consumption of fuel oils and distillate in Canada, excluding consumption under refinery boilers, as reported by distributors and refiners, amounted to 2,871,416,639 gallons in 1953.

Employment in the refining industry totalled 11,476 persons who received \$47,211,679 in salaries and wages. Expenditures for fuel and electricity amounted to \$27,997,811 and \$498,075,546 were paid out for crude oil and other processing materials.

(b) Manufacture of Lubricating Oils and Greases, (other than in Refineries), 1953

Thirteen factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1953. Seven of these plants were located in Ontario, 4 in Quebec, 1 in British Columbia and 1 in Saskatchewan. They gave work to a total of 286 people who were paid \$988,784 as salaries and wages. Purchases of processing materials and containers cost \$7,215,941. Included in the year's output were lubricating oils at \$8,560,939, lubricating greases at \$1,457,920 and soaps or soap powders at \$20,846.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 69,120,056 gallons in 1953 against 72,143,859 gallons in 1952. Corresponding figures for lubricating greases totalled 48,477,566 pounds in 1953 and 50,476,080 pounds in 1952. Sales of lubricating oils, as reported by principal dealers, amounted to 82,930,000 gallons in 1953, while sales of lubricating greases totalled 92,732,000 pounds.

(c) Absorption Gasoline Plants, 1953

Five plants, all in Alberta, operated in this group in 1953. Value of shipments amounted to \$4,636,545. Output included 19,641,851 M cubic feet of dry gas valued at \$1,648,455, 20,419,820 gallons of natural gasoline at \$1,740,931, 18,645,058 gallons of liquefied petroleum gases at \$956,488 and 16,192 tons of sulphur at \$290,671. Employees numbered 96 persons who received \$374,309 in salaries and wages. Expenditures for fuel and electricity

amounted to \$115,954 and the raw gas and other materials used in processing cost \$1,922,553.

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.

TABLE 1. Principal Statistics of the Petroleum Products Industry, 1949-1953

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
Petroleum refining:						
1949	33	9,162	25,585,538	16,837,394	331,772,278	429,949,296
1950	32	9,728	29,708,085	19,759,979	377,866,861	503,521,097
1951	36	10,280	36,105,853	24,522,328	430,303,236	587,852,999
1952	35	11,228	44,699,608	27,666,652	442,917,146	643,151,105
1953	37	11,476	47,211,679	27,997,811	498,075,546	679,960,932
Compounding oils and greases:						
1949	14	251	556,738	14,666	5,200,778	6,846,917
1950	14	328	849,511	28,914	6,489,520	7,995,295
1951	16	331	972,773	48,527	8,163,903	11,087,517
1952	15	334	1,088,527	68,014	8,913,243	12,320,823
1953	13	286	988,784	57,529	7,215,941	10,391,128
Absorption gasoline¹:						
1952	5	99	357,287	143,648	2,124,299	4,884,656
1953	5	96	374,309	115,954	1,922,553	4,636,545
TOTAL:						
1949	47	9,413	26,142,276	16,852,060	336,973,056	436,796,213
1950	46	10,056	30,557,596	19,788,893	384,356,381	511,516,392
1951	52	10,611	37,078,626	24,570,855	438,467,139	598,940,516
1952	55	11,661	46,145,422	27,878,314	453,954,688	660,356,584
1953	55	11,858	48,574,772	28,171,294	507,214,040	694,988,605

Note. Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, etc.

1. Statistics for this industry as a group are not available before 1952.

TABLE 2. Principal Statistics of the Petroleum Products Industry by Provinces, 1952 and 1953

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1952						
Quebec	8	2,660	10,585,447	10,685,182	174,406,024	264,754,614
Ontario	13	5,228	20,629,093	9,389,528	117,895,839	171,412,733
Manitoba	4	367	1,390,899	985,012	19,411,027	25,282,153
Saskatchewan	8	811	3,085,910	1,699,040	36,693,483	50,438,097
Alberta	14	1,327	5,338,340	2,492,818	55,696,703	80,875,509
British Columbia.....	5	725	2,991,967	1,214,926	25,933,578	37,818,297
Nova Scotia	1	543	2,123,766	1,411,808	23,918,034	29,775,181
New Brunswick	1					
Northwest Territories.....	1					
Canada	55	11,661	46,145,422	27,878,314	453,954,688	660,356,584
1953						
Quebec	8	2,636	10,905,932	9,862,150	185,182,964	257,951,853
Ontario	12	5,071	20,933,480	9,690,394	140,282,154	193,594,550
Manitoba	4	400	1,570,469	934,425	19,692,425	25,237,912
Saskatchewan	9	1,003	3,890,557	2,053,064	45,754,470	62,777,002
Alberta	15	1,412	5,694,916	3,100,786	60,186,566	89,741,011
British Columbia.....	4	795	3,358,977	1,349,828	34,624,372	40,562,462
Nova Scotia	1	541	2,220,441	1,180,647	21,491,089	25,123,815
New Brunswick	1					
Northwest Territories.....	1					
Canada	55	11,858	48,574,772	28,171,294	507,214,040	694,938,605

TABLE 3. Number and Total Capacity of Petroleum Refineries in Operation December 31, 1950-1953

Province	1950		1951		1952		1953	
	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	22,000	1	22,000	1	22,100	1	18,000
New Brunswick	1	300	1	300	1	300	1	300
Quebec	4	143,000	4	160,000	4	165,000	4	180,000
Ontario	4	75,200	4	79,400	4 ¹	100,800	5	119,500
Manitoba	3	7,800	4	20,500	4	20,500	4	20,500
Saskatchewan	8	33,575	8	38,400	7	47,400	8	53,800
Alberta	7	46,900	10	60,550	9	61,300	10	70,100
British Columbia.....	3	28,850	3	28,850	3	29,850	3	45,850
Northwest Territories.....	1	1,250	1	1,250	1	1,250	1	1,250
Canada	32	358,875	36	411,250	34¹	448,400	37	509,300

Note: 1 Barrel = 35 Imperial gallons.

1. This figure does not include 1 refinery which discontinued operations in the spring of 1952.

TABLE 4. Principal Statistics of the Petroleum Refining Industry, 1949-1953

Year	Number of refineries	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1949	33	9,162	25,585,538	16,837,394	331,772,278	429,949,296
1950	32	9,728	29,708,085	19,759,979	377,866,861	503,521,097
1951	36	10,280	36,105,853	24,522,328	430,303,236	587,852,999
1952	35	11,228	44,699,608	27,666,652	442,917,146	643,151,105
1953	37	11,476	47,211,679	27,997,811	498,075,546	679,960,932

TABLE 5. Principal Statistics of the Petroleum Refining Industry by Provinces, 1952 and 1953

Year	Number of refineries	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1952						
Quebec	4	2,568	10,322,472	10,645,655	171,256,756	259,337,501
Ontario	5	5,001	19,848,054	9,366,891	112,357,907	164,865,259
Manitoba	4	367	1,390,899	985,012	19,411,027	25,282,153
Saskatchewan	7	803	3,064,860	1,693,840	36,543,733	50,219,797
Alberta	9	1,228	4,981,053	2,349,170	53,572,404	75,990,853
British Columbia	3	718	2,968,504	1,214,276	25,857,285	37,680,270
Other provinces ¹	3	543	2,123,766	1,411,808	23,918,034	29,775,181
Canada	35	11,228	44,699,608	27,666,652	442,917,146	643,151,105
1953						
Quebec	4	2,575	10,714,336	9,837,778	183,363,840	254,464,787
Ontario	5	4,854	20,158,839	9,662,537	135,041,051	186,903,649
Manitoba	4	400	1,570,469	934,425	19,692,425	25,237,912
Saskatchewan	8	996	3,869,832	2,047,764	45,601,825	62,570,102
Alberta	10	1,316	5,320,607	2,984,832	58,264,013	85,104,466
British Columbia	3	794	3,357,155	1,349,828	34,621,303	40,556,201
Other provinces ¹	3	541	2,220,441	1,180,647	21,491,089	25,123,815
Canada	37	11,476	47,211,579	27,997,811	498,075,546	679,960,932

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

TABLE 6. Products Made in Petroleum Refineries, 1952 and 1953

Product	Unit of measure	1952		1953	
		Quantity	Gross selling value at works \$	Quantity	Gross selling value at works \$
Made for sale:					
Gasoline (excluding imported casing-head-blended):					
Aviation gasoline.....	Imp. gal.	16,469,121	4,465,127	21,061,321	5,740,407
Motor gasoline.....	"	2,025,718,219	322,836,187	2,230,393,120	348,122,753
Naphtha specialties.....	"	30,103,398	5,890,838	30,511,242	5,873,655
Tractor fuel.....	"	13,082,116	1,919,914	10,682,000	1,596,779
Aviation turbine fuel.....	"	13,251,583	2,325,762	40,226,081	6,291,910
Kerosene.....	"	16,291,308	2,697,980	15,096,608	2,521,543
Stove oil (No. 1 fuel oil).....	"	239,749,869	35,056,157	287,759,232	40,296,754
Diesel fuel.....	"	339,430,730	40,833,273	380,091,987	39,362,972
Light fuel oils (Nos. 2 and 3):					
Furnace fuel oil.....	"	480,454,728	63,062,285	582,105,846	72,976,766
Other light fuel oil.....	"	63,613,468	6,951,819	65,416,773	6,759,347
Heavy fuel oils (Nos. 4, 5 and 6).....	"	956,764,917	71,381,895	1,017,137,918	64,546,612
Lubricating oil.....	"	59,257,846	23,767,821	57,075,800	22,454,696
Lubricating grease.....	pound	31,700,701	2,452,660	34,381,316	2,761,681
Asphalt.....	Imp. gal.	188,807,882	23,364,599	195,290,243	23,961,117
Petroleum coke.....	ton	150,750	1,650,342	146,794	1,248,755
Liquefied petroleum gases.....	Imp. gal.	21,838,333	2,412,439	27,424,278	2,907,125
Other products ¹	—	—	6,884,716	—	7,834,074
Total — made for sale.....	—	—	617,953,814	—	655,256,946
Made for own use:					
Gasoline.....	Imp. gal.	842,113	176,015	980,368	203,635
Naphtha specialties.....	"	55,568	11,488	75,491	14,887
Kerosene.....	"	7,674	1,317	9,852	1,719
Stove oil (No. 1 fuel oil).....	"	21,535	3,335	27,234	4,239
Diesel fuel.....	"	481,268	63,252	216,476	16,115
Light fuel oils (Nos. 2 and 3).....	"	259,017	33,681	274,750	34,181
Heavy fuel oils (Nos. 4, 5 and 6).....	"	171,062,786	14,162,451	183,206,231	12,186,910
Lubricating oil.....	"	63,796	23,030	49,869	18,302
Asphalt.....	"	248,722	35,150	255,671	33,440
Petroleum coke.....	ton	52,638	506,920	91,869	686,331
Still gas.....	M cu. ft.	19,462,295	9,869,340	20,552,525	10,585,933
Other products.....	—	—	311,312	—	918,294
Total — made for own use.....	—	—	25,197,291	—	24,703,986
Grand total.....	—	—	643,151,105	—	679,960,932

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.

TABLE 7. Materials Used in Petroleum Refineries, 1952 and 1953

Material	Unit of measure	1952		1953	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells.....	Imp. gal.	1,966,888,778	163,029,334	2,491,465,622	212,589,641
Absorption gasoline, etc., from Canadian wells (run to stills).....	Imp. gal.	16,161,355	1,394,244	16,462,153	1,439,297
Crude oil, in its natural state, imported, (run to stills):					
From United States.....	Imp. gal.	668,621,323	58,914,728	521,062,558	48,767,474
From South America.....	"	1,787,162,350	155,936,758	2,004,865,108	174,122,354
From other countries.....	"	406,955,882	34,309,192	337,078,280	29,472,559
Crude oil, not in its natural state (run to stills)	"	30,237,897	3,102,966	33,588,543	3,307,265
Blending stocks for gasoline:					
Benzol.....	Imp. gal.	1,340	384	916,755	435,467
Alkylate.....	"	7,362,437	1,672,388	4,282,191	1,176,053
Phenol.....	pound	1,418,707	278,462	957,938	192,302
Sulphuric acid, 100%.....	"	18,980,868	326,318	14,714,718	267,945
Ammonia, anhydrous.....	"	343,356	63,822	328,167	68,244

TABLE 7. Materials Used in Petroleum Refineries, 1952 and 1953 - Concluded

Material	Unit of measure	1952		1953	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Sulphur	pound	515,434	19,788	378,867	16,351
Caustic soda	"	13,251,078	494,285	13,722,020	487,265
Soda ash	"	1,450,280	47,469	1,541,215	54,568
Litharge	"	573,406	115,256	306,804	51,432
Fuller's earth, bentonite and other clays	"	27,210,000	720,487	21,832,000	681,264
Compounding materials	-	-	6,263	-	1,323
Tetraethyl fluid	c.c.	5,676,975,166	9,959,944	6,045,629,077	10,764,652
Dyes for gasoline	-	-	79,597	-	75,140
Inhibitor	-	-	388,038	-	336,496
Other materials	-	-	9,957,900	-	11,311,615
Shipping containers	-	-	2,099,523	-	2,456,839
Total	-	-	442,917,146	-	498,075,546

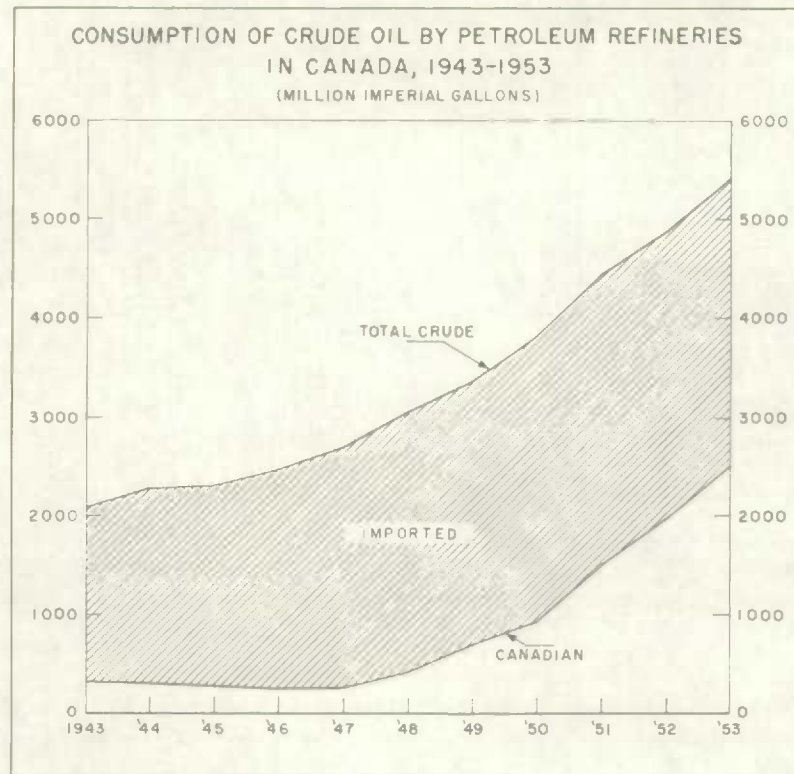


TABLE 8. Consumption of Crude Oil in Petroleum Refineries, Showing Canadian and Imported Separately, 1944-1953

Year	Canadian ¹	Imported ²	Total
1944	300,536,071	1,982,671,799	2,283,207,870
1945	274,831,125	2,031,784,863	2,306,615,988
1946	250,566,210	2,227,789,282	2,478,355,492
1947	259,867,767	2,445,771,925	2,705,639,692
1948	417,958,696	2,641,208,965	3,059,167,661
1949	701,123,425	2,666,512,499	3,367,635,924
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

1. Includes the crude naphtha and absorption gasoline from the Turner Valley field which was run to refinery stills.
2. Includes reduced crude.

TABLE 9. Casinghead Gasoline Imported and Used for Blending at the Refineries, 1953
(These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp. gal.	28,113,138
	\$	3,809,677
Imported natural casinghead gasoline used for blending during the year	Imp. gal.	25,224,578
Total stocks of imported natural casinghead gasoline at the end of the year	"	3,502,580

TABLE 10. Stocks on Hand at the Refineries at the End of 1953

	Stocks on hand at refineries on December 31, 1953	Increase or decrease compared with December 31, 1952
	Imperial gallons	
Crude oil and naphtha, in its natural state, from Canadian wells	115,770,717	- 101,474,497
Absorption gasoline, etc., from Canadian wells	1,240,662	+ 195,756
Crude oil, imported:		
In its natural state	140,262,606	- 17,597,946
Not in its natural state	546,029	+ 224,799
Total crude	257,820,014	- 118,651,888
Naphtha specialties	4,656,679	+ 105,372
Aviation gasoline ¹	14,496,842	- 1,262,100
Motor gasoline	205,276,650	+ 43,962,578
Tractor fuel	1,513,105	- 1,881,186
Aviation turbine fuel	5,067,728	+ 3,458,535
Kerosene	4,828,536	- 466,104
Stove oil (No. 1 fuel oil)	55,787,907	+ 20,667,400
Diesel fuel ¹	56,184,951	+ 6,200,086
Light fuel oils (Nos. 2 and 3) - Furnace fuel oil ¹	116,167,531	- 16,571,301
Other light fuel oil	6,630,645	+ 3,100,650
Heavy fuel oils (Nos. 4, 5 and 6)	105,947,622	- 22,017,402
Lubricating oils	7,462,290	- 509,160
Total refined	584,020,486	+ 34,787,368

1. Stocks on hand shown for these items in the 1952 report have been revised as follows: aviation gasoline, 15,758,942 gallons; diesel fuel, 49,984,865 gallons; furnace fuel oil, 132,738,832 gallons.

TABLE 11. Production of Crude Petroleum, by Provinces, 1952 and 1953

Province	1952		1953	
	Barrels	\$	Barrels	\$
New Brunswick	14,237	19,932	14,738	20,633
Ontario	191,814	641,037	299,685	994,835
Manitoba	104,826	229,299	653,514	1,714,806
Saskatchewan	1,696,505	2,256,352	2,797,888	3,833,107
Alberta	58,915,723	139,512,432	76,816,383	193,761,644
Northwest Territories	314,217	379,160	316,689	257,251
Canada	61,237,322	143,038,212	80,898,897	200,582,276

TABLE 12. World Crude Oil Production, 1951-1954

	1951	1952	1953	1954
	Thousands of barrels daily			
North America:				
United States	6,149.0	6,264.5	6,465.7	6,315.5
Canada	130.5	167.0	221.6	256.9
Mexico	210.2	214.8	198.5	228.4
North America	6,489.7	6,646.3	6,885.8	6,800.8
South America:				
Venezuela	1,704.6	1,803.9	1,765.1	1,880.7
Colombia	105.3	105.0	110.4	110.5
Argentina	66.9	68.2	78.5	79.2
Trinidad	57.1	57.4	61.2	64.5
Peru	44.0	45.5	44.0	46.9
Ecuador	7.4	7.7	8.1	8.5
Chile	2.0	2.2	3.5	4.6
Brazil	1.9	1.9	2.5	2.4
Bolivia	1.4	1.4	1.6	4.5
Cuba	0.3	0.3	0.1	0.1
South America and Caribbean	1,990.9	2,094.3	2,075.0	2,201.9
Western Hemisphere	8,480.6	8,740.6	8,960.8	9,002.7
Europe:				
Austria	44.0	55.0	60.0	61.5
Germany	26.5	33.9	42.3	51.7
Netherlands	13.6	13.6	15.6	17.7
France	5.6	6.6	7.0	10.0
Hungary	10.5	9.5	14.0	14.0
Yugoslavia	3.2	3.2	3.0	3.0
Algeria	—	0.8	1.8	1.7
French Morocco	1.6	2.1	2.1	2.4
Italy	0.4	1.3	1.8	2.1
United Kingdom	0.9	1.1	1.1	1.2
Europe excluding U. S. S. R. and Satellites	106.3	126.3	148.7	165.3
U. S. S. R.:				
Romania	842.0	940.0	1,040.0	1,145.0
Poland	100.0	90.8	105.0	127.5
Albania	3.7	4.0	4.0	4.0
Czechoslovakia	3.0	3.0	3.0	3.0
Cuba	1.9	2.5	2.5	2.5
Total	950.6	1,040.3	1,154.5	1,282.0
Europe	1,056.9	1,166.6	1,303.2	1,447.3
Near and Middle East:				
Kuwait	563.0	752.4	862.0	960.0
Saudi Arabia	761.5	822.5	844.6	950.8
Iraq	174.6	383.4	576.1	634.2
Qatar	49.6	68.4	85.2	99.8
Egypt	44.7	45.0	45.2	37.7
Bahrein	30.0	30.1	30.1	30.1
Iran	350.0	27.5	26.8	100.0
Turkey	0.4	0.4	0.5	0.6
Neutral Zone	—	—	—	15.6
Near and Middle East	1,973.8	2,129.7	2,470.5	2,828.8
Far East and Oceania:				
Indonesia	151.7	170.9	206.0	213.4
British Borneo	103.0	104.5	101.0	100.8
India	5.3	5.5	5.4	6.1
Japan	6.4	5.8	5.8	5.9
New Guinea	4.8	4.7	4.8	11.0
Pakistan	3.6	4.1	4.8	5.3
Burma	2.2	2.3	3.8	3.8
China	2.0	2.0	2.0	2.4
Far East	279.0	299.8	332.6	348.7
Eastern Hemisphere	3,309.7	3,596.1	4,106.3	4,624.8
World total	11,790.3	12,336.7	13,067.1	13,627.5

TABLE 13. Crude Oil Production by Principal Nations and Hemispheres, 1951-1954

	1951	1952	1953	1954
	%	%	%	%
Principal Nations:				
United States	52.2	50.8	49.5	46.3
Venezuela	14.5	14.6	13.5	13.8
U.S.S.R.	6.9	7.6	8.0	8.4
Kuwait	5.0	6.1	6.6	7.0
Saudi Arabia	6.5	6.7	6.5	7.0
Iraq	1.5	3.1	4.4	4.7
Canada	1.1	1.3	1.7	1.9
Mexico	1.8	1.7	1.5	1.7
Indonesia	1.3	1.4	1.6	1.6
Romania	0.8	0.7	0.8	0.9
Colombia	0.9	0.9	0.8	0.8
British Borneo	0.9	0.8	0.8	0.7
Iran	3.0	0.2	0.2	0.7
Western Hemisphere	72.1	70.8	68.6	66.1
North America	55.1	53.8	52.7	49.9
South America	17.0	17.0	15.9	16.2
Eastern Hemisphere	27.9	29.2	31.4	33.9
Middle East	16.8	17.3	18.9	20.7
Oceania and Far East	2.3	2.4	2.5	2.6
Europe (including U.S.S.R.)	8.7	9.5	10.0	10.6

Source: Data for Tables 12 and 13 were extracted from "World Petroleum", January, 1955.
 Note: 1 barrel = 35 Imperial gallons.

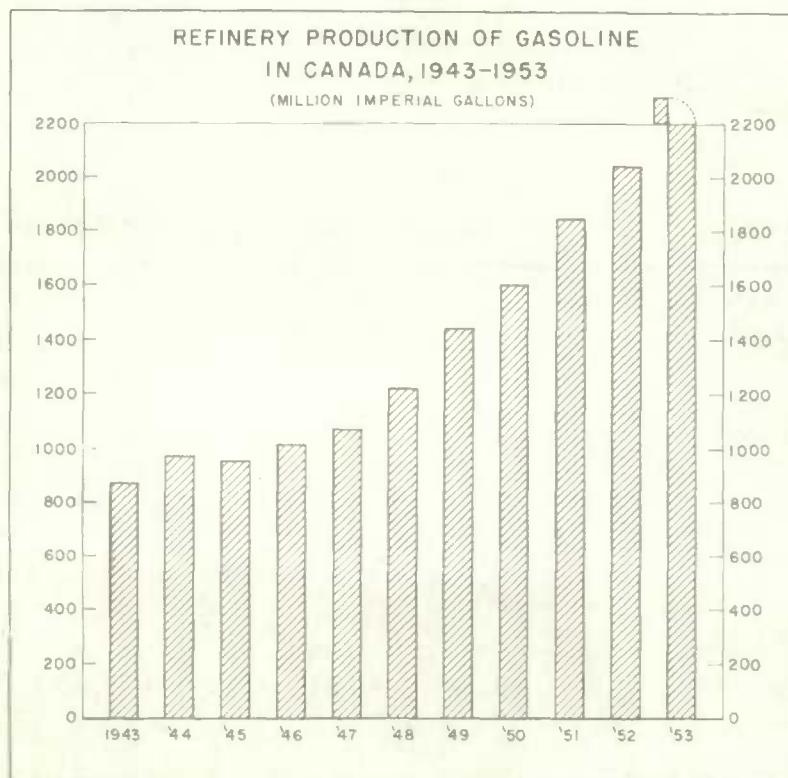


TABLE 14. Refinery Production¹ of Gasoline, 1944-1953

Year	Motor gasoline	Aviation gasoline	Total
	Imperial gallons		
1944	863,677,723	107,263,449	970,941,172
1945	933,842,039	19,174,916	953,016,955
1946	1,009,624,507	7,996,196	1,017,620,703
1947	1,065,422,068	9,127,797	1,074,549,865
1948	1,204,859,527	14,431,816	1,219,291,343
1949	1,426,243,278	14,233,254	1,440,466,532
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

1. Includes production made for own use.

TABLE 15. Gross Sales³ of Gasoline, by Provinces, 1950-1953

Province	1950	1951	1952	1953
	Thousands of Imperial gallons			
Newfoundland	1	4,523 ²	13,820 ²	16,504 ²
Prince Edward Island	9,085	10,246	10,832	12,389
Nova Scotia	61,349	65,777	69,174	75,772
New Brunswick	58,815	63,615	67,361	77,108
Quebec	340,621	372,853	430,671	456,451
Ontario	687,730	766,492	844,163	928,513
Manitoba	112,496	127,658	148,274	159,554
Saskatchewan	176,118	192,585	238,664	250,699
Alberta	241,388	272,992	329,255	361,665
British Columbia	155,424	173,070	191,445	210,028
Total gross sales	1,843,026	2,049,812	2,343,660	2,548,696

1. Not available.

2. Gross sales of motor and tractor grades only; first reported September, 1951.

3. Sold for all purposes.

TABLE 16. Gross Sales of Gasoline, by Months, 1950-1953

Month	1950	1951	1952	1953
	Thousands of Imperial gallons			
January	97,093	121,365	136,053	150,402
February	93,663	109,429	129,917	140,817
March	110,887	120,542	137,401	161,338
April	116,339	134,106	170,171	183,905
May	188,092	217,688	252,327	236,105
June	188,583	205,339	214,798	246,949
July	188,047	212,033	246,948	267,328
August	212,827	224,070	242,307	261,985
September	189,049	199,364	236,403	259,592
October	178,910	200,855	230,939	248,482
November	154,634	161,983	176,687	200,698
December	124,902	143,037	169,705	191,095
Total	1,843,026¹	2,049,812²	2,343,660	2,548,696

1. Newfoundland not included.

2. Newfoundland included for last four months only.

TABLE 17. Gross Sales of Gasoline, by Months and by Provinces, 1953, and Totals for 1952

Month	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total
Thousands of Imperial gallons											
January	1,081	653	4,684	4,403	28,248	58,848	7,970	9,910	21,290	13,318	150,402
February	910	581	4,248	3,983	25,884	55,905	7,064	8,420	20,112	13,711	140,817
March	1,074	582	4,775	4,548	29,441	64,191	8,683	10,200	22,086	15,758	161,338
April	1,059	805	5,677	4,653	31,907	74,192	12,125	16,209	21,428	15,850	183,905
May	1,309	1,375	6,799	7,077	40,614	81,352	15,020	29,102	35,849	17,607	236,105
June	1,578	1,256	7,189	7,847	43,811	87,517	16,493	28,704	33,699	18,854	246,949
July	1,655	1,378	8,004	8,432	48,081	95,973	17,071	28,506	36,221	22,007	267,328
August	1,638	1,330	8,055	8,549	46,286	92,186	18,428	29,499	35,010	21,004	261,985
September	1,640	1,306	7,264	7,912	44,425	87,664	17,553	32,951	38,702	20,175	259,592
October	1,626	1,201	6,785	7,431	44,198	85,097	16,818	26,878	39,764	18,683	248,482
November	1,456	1,067	6,186	6,436	37,464	73,580	11,803	16,629	29,576	16,502	200,698
December	1,477	854	6,107	5,839	36,103	72,012	10,525	13,691	27,928	16,559	191,095
Totals for 1953	16,504	12,389	75,772	77,108	456,461	928,516	159,554	250,699	361,665	210,028	2,548,696
Totals for 1952	13,820	10,832	69,174	67,361	430,671	844,163	148,274	238,664	329,255	191,445	2,343,660

TABLE 18. Net Sales² of Gasoline, by Provinces, 1950-1953

Province	1950	1951	1952	1953
Thousands of Imperial gallons				
Newfoundland	8,842 ¹	10,816 ¹	12,745	15,438
Prince Edward Island	6,554	8,610	8,730	8,582
Nova Scotia	50,845	54,352	57,229	63,467
New Brunswick	51,285	55,636	58,787	67,972
Quebec	307,433	337,259	390,593	411,418
Ontario	582,212	642,537	695,348	783,785
Manitoba	70,068	73,449	83,111	88,369
Saskatchewan	81,215	89,513	113,260	128,262
Alberta	113,361 ³	126,108	153,545	175,150
British Columbia	118,275	130,626	144,762	160,072
Canada	1,390,090³	1,528,906	1,718,112	1,902,515

1. Estimated from tax revenues.

2. Gross sales less gasoline exempt from tax or on which tax was refunded.

3. Revised to allow for marked gasoline sold in Alberta subject to a tax of 1 cent per gallon. Amounts of marked gasoline included in totals of net sales were: 1950, 118,601 thousand gallons.

TABLE 19. Provincial Government Receipts from Gasoline Taxes, by Provinces, 1950-1953

Province	1950	1951	1952	1953
	\$	\$	\$	\$
Newfoundland	1,251,928	1,514,260	1,795,005	2,137,582
Prince Edward Island.....	960,238	1,002,323	1,160,531	1,202,210
Nova Scotia	6,590,526	7,852,411	8,819,929	9,555,028
New Brunswick	5,731,589	6,322,761	6,832,399	7,337,787
Quebec	37,156,111	47,635,063	50,517,560	56,589,501
Ontario	65,040,229	71,382,060	77,647,918	86,238,934
Manitoba	5,997,075	6,679,830	7,422,949	8,279,262
Saskatchewan	8,331,276	9,388,465	11,758,528	14,087,699
Alberta	11,609,189	12,766,293	15,378,525	17,315,100
British Columbia	12,400,167	13,843,038	15,364,145	16,936,040
Yukon	78,257	118,803	188,077	196,952
Total receipts	155,146,585	178,505,307	196,885,566	219,876,095

TABLE 20. Revenues from Motor Vehicle Registrations and Gasoline Taxes, 1944-1953

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
	\$	\$		\$	\$
1944	30,584,711	77,192,353 ¹	1949	58,205,854	137,834,316
1945	32,166,464	87,666,795 ¹	1950	67,185,528	155,146,585
1946	39,787,935	108,573,195 ¹	1951	73,707,694	178,505,307
1947	46,004,131	119,668,069 ¹	1952	81,119,360	196,885,566
1948	51,287,732	124,330,987	1953	87,788,069	219,876,095

Note: Subsidies discontinued in 1946. Federal Government gasoline tax cancelled March 31, 1947.

1. Total tax paid by public, including Provincial and Federal Government taxes, but allowing for subsidies paid to provinces by Federal Government in guarantee of revenues because of gasoline rationing.

TABLE 21. Registrations of Motor Vehicles, by Provinces, 1950-1953

Province	1950	1951	1952	1953
	Number			
Newfoundland	16,375	20,058	23,630	29,576
Prince Edward Island.....	15,383	16,896	18,717	20,286
Nova Scotia	94,743	105,262	114,982	129,564
New Brunswick	74,415	83,023	89,839	93,914
Quebec	433,701	500,729	574,974	617,855
Ontario	1,104,080	1,205,098	1,291,753	1,406,119
Manitoba	157,788	171,265	187,881	203,652
Saskatchewan	199,866	215,450	237,014	257,504
Alberta	230,624	259,841	291,469	318,812
British Columbia.....	270,312	291,417	321,482	348,830
Yukon and Northwest Territories	3,224	3,381	4,083	4,560
Canada	2,600,511	2,872,420	3,155,824	3,430,672

TABLE 22. Registrations of Motor Vehicles, by Types, 1953

Province	Passenger cars	Motor trucks	Motor buses	Motor-cycles	Tractors	Other motor vehicles	Total
	Number						
Newfoundland	20,509	8,104	200	298	145	320	29,576
Prince Edward Island	12,218	5,424	15	121	2,508 ²	1	20,286
Nova Scotia	88,985	33,904	1	1,348	5,327	1	129,564
New Brunswick	63,041	22,108	431	1,193	4,748	2,393	93,914
Quebec	440,720	136,341	3,464	15,076	14,993 ²	7,261	617,855
Ontario	1,117,175	275,630	1	13,314	1	1	1,406,119
Manitoba	145,052	52,889	190	1,762	2,294	1,465	203,652
Saskatchewan	157,942	97,101	120	925	1,416	—	257,504
Alberta	207,402	106,822	479	2,306	1	1,803	318,812
British Columbia	258,940	83,521	1	3,825	2,544 ²	1	348,830
Yukon and Northwest Territories	1,770	2,315	20	9	34	412	4,560
Canada	2,513,754	824,159	4,919	40,177	34,009	13,654	3,430,672

1. Included with trucks.

2. Farm tractors only. Road tractors included with trucks.

TABLE 23. Petroleum Coke: Deliveries For Consumption, 1952 and 1953 (Used as fuel only — not as manufacturing materials)

Fuel for domestic and industrial heating	1952	1953
	Tons	
Atlantic provinces	—	—
Quebec	—	—
Ontario	15,602	12,111
Manitoba	—	—
Saskatchewan	—	—
Alberta and Northwest Territories	—	—
British Columbia and Yukon	—	—
Total	15,602	12,111

TABLE 24. Fuel Oil and Distillate Deliveries: Deliveries for Consumption, by Provinces, 1953, and Totals for 1949-1952 (As reported by Distributors and Refiners)

No.		Atlantic provinces	Quebec	Ontario	Manitoba
		Imperial gallons			
	(a) Heavy and Medium Fuel Oils (Nos. 6, 5 and 4):				
1	For heating homes and buildings and for lighting and cooking	8,680,771	78,865,346	41,359,963	15,705,116
2	For electric light plants	2,909,550	15,193	—	—
3	For industrial purposes, as fuel or material	54,179,390	206,506,751	175,047,876	20,731,996
4	For tractors and other motor vehicles, as fuel	438,467	161,872	—	—
5	To railways	18,960,804	5,155,585	5,753,862	13,541,078
6	To ships for bunkering	60,868,137	117,700,745	36,453,554	188,335
7	For unspecified uses	—	4,648,649	7,415,688	400
8	Total deliveries of fuel oils, all uses	146,037,119	413,054,141	266,030,943	50,166,925
	(b) Heavy and Light Furnace Oils (Nos. 3 and 2):				
9	For heating homes and buildings and for lighting and cooking	62,828,478	188,256,107	402,203,802	39,051,569
10	To electric light plants	1,500	2,691	8,900	—
11	For industrial purposes, as fuel or material	2,399,965	27,944,019	20,334,881	2,101,505
12	For tractors and other motor vehicles, as fuel	19,747	1,191,360	238,317	190,898
13	To railways	1,496,228	597,134	899,309	816,024
14	To ships and boats, as fuel	9,182	3,320,383	61,234	—
15	For unspecified uses	2,097	1,224,729	6,783,069	408,181
16	Total deliveries of furnace oils, all uses	66,757,197	222,536,423	430,529,512	42,568,177
	(c) Diesel Fuel:				
17	For heating homes and buildings and for lighting and cooking	100,010	3,473,196	1,078,385	1,762,901
18	To electric light plants	1,115,525	1,439,779	46,640	302,581
19	For industrial purposes, as fuel or material	7,986,252	6,308,771	9,391,303	3,193,218
20	For tractors and other motor vehicles, as fuel	9,003,821	17,123,075	9,257,026	7,479,273
21	To railways	9,288,508	15,297,960	39,721,821	4,781,768
22	To ships and boats, as fuel	17,855,622	12,724,731	3,625,021	1,782
23	For unspecified uses	2,390,687	3,263,307	17,325,406	1,432,503
24	Total deliveries of diesel fuel, all uses	47,740,425	59,630,819	80,445,602	18,954,026
	(d) Stove Oil (No. 1), Tractor Fuel, Kerosene and Illuminating Oil:				
25	For heating homes and buildings and for lighting and cooking	45,609,601	119,222,956	95,988,247	5,478,415
26	To railways	228,215	315,060	295,345	232,735
27	To electric light plants	430	—	—	—
28	For industrial purposes, as fuel or material	1,547,399	2,026,158	2,166,199	109,040
29	For tractors and other motor vehicles, as fuel	57,906	142,127	389,348	4,687,112
30	For unspecified uses	1,673,987	4,198,115	8,103,774	871,003
31	Total deliveries of section (d), all uses	49,117,538	125,904,416	106,942,913	11,378,305
32	Total all fuels	309,652,279	821,125,799	883,948,970	123,067,433
33	Total all fuels: 1952	307,892,900	729,664,603	790,748,010	106,202,833
34	1951	270,704,694	639,611,039	729,886,775	87,478,437
35	1950	225,513,571	558,165,070	561,092,634	58,549,358
36	1949	213,084,327	476,648,680	434,432,065	47,404,295

Note: 1. Consumption of Heavy and Medium Fuel Oils (Nos. 6, 5 and 4) reported as used "Under refinery boilers" in 1952 and earlier years has not been included in 1953. Accordingly, totals for 1953 are not exactly comparable with figures published in earlier years; however, the totals shown for 1952 and earlier years in the above table have been adjusted to allow for this change in reporting.

2. Amounts recorded respectively for domestic, industrial, and tractor purposes were for actual consumption within the areas indicated; those recorded under railways and bunkering were taken from, or accepted at delivery points within these areas, but were consumed by carriers where required.

TABLE 24. Fuel Oil and Distillate Deliveries: Deliveries for Consumption, by Provinces, 1953, and Totals for 1949-1952 (As reported by Distributors and Refiners)

Saskatchewan	Alberta and Northwest Territories	British Columbia and Yukon	Canada		Canada		No.
			1953	Per cent of section total	1952	Per cent of section total	
Imperial gallons							
16,253,694	57,645	37,057,196	197,979,731	15.4	177,688,539	14.8	1
26,381,397	—	—	29,306,140	2.3	15,852,934	1.3	2
6,484,398	9,309,576	70,100,234	542,360,221	42.1	486,644,141	40.6	3
30,655	566,780	—	1,197,774	.3	990,123	.1	4
22,616,802	109,983,504	50,700,987	226,712,622	17.6	276,978,409	23.1	5
—	—	57,764,540	272,975,311	21.2	239,738,536	20.1	6
—	1,677,096	241,089	13,982,922	1.1	—	—	7
71,766,946	121,594,601	215,864,046	1,284,514,721	100.0	1,197,892,682	100.0	8
49,368,611	13,494,605	53,216,879	808,420,051	90.1	723,988,168	86.3	9
—	—	—	13,091	—	1,132,063	.1	10
309,197	619,482	1,874,404	55,583,453	6.2	99,567,061	11.6	11
2,143,254	32,115	—	3,815,691	.4	573,127	.7	12
295,476	6,496,161	3,957,386	14,557,718	1.6	9,649,839	1.2	13
—	—	17,142	3,407,941	.4	546,450	—	14
3,192,626	198,184	34,060	11,842,946	1.3	1,147,571	.1	15
55,309,164	20,840,547	59,099,871	897,640,891	100.0	836,604,279	100.0	16
2,357,041	2,637,935	1,153,082	12,562,530	3.4	9,086,152	2.8	17
353,121	3,009,630	11,376	6,778,652	1.8	16,773,900	5.3	18
2,567,677	21,452,583	35,635,280	86,535,084	23.4	52,465,933	16.4	19
20,013,408	17,530,482	2,357,624	82,764,709	22.4	103,385,078	32.2	20
413,151	8,544,762	13,284,335	91,337,305	24.7	74,005,137	23.0	21
—	270,390	15,019,968	49,497,514	13.4	50,760,717	15.8	22
7,192,075	7,935,537	564,627	40,104,142	10.9	14,401,303	4.5	23
33,401,453	61,381,319	68,026,292	369,579,936	100.0	320,878,220	100.0	24
4,975,911	9,182,847	51,058,365	331,516,342	89.2	309,474,564	88.3	25
51,671	107,685	78,176	1,308,887	.4	4,120,252	1.1	26
—	—	—	430	—	162,422	—	27
122,806	1,595,063	374,457	8,441,122	2.3	6,826,792	2.0	28
5,636,862	3,513,623	241,268	14,668,246	3.9	19,772,206	5.7	29
261,625	487,199	138,451	15,734,154	4.2	10,010,262	2.9	30
11,048,875	14,886,417	52,390,717	371,669,181	100.0	350,366,498	100.0	31
171,526,438	218,702,884	395,380,926	2,923,404,729	—	2,705,741,679	—	32
137,267,690	219,653,645	414,311,998	2,705,741,679	—	—	—	33
152,093,999	200,641,338	350,557,754	2,430,974,036	—	—	—	34
137,296,533	184,422,739	309,254,513	2,034,294,418	—	—	—	35
112,904,709	127,446,291	294,219,062	1,706,139,429	—	—	—	36

Note: 1. Consumption of Heavy and Medium Fuel Oils (Nos. 6, 5 and 4) reported as used "Under refinery boilers" in 1952 and earlier years has not been included in 1953. Accordingly, totals for 1953 are not exactly comparable with figures published in earlier years; however, the totals shown for 1952 and earlier years in the above table have been adjusted to allow for this change in reporting.

2. Amounts recorded respectively for domestic, industrial, and tractor purposes were for actual Consumption within the areas indicated; those recorded under railways and bunkering were taken from, or accepted at delivery points within these areas, but were consumed by carriers where required.

TABLE 25. Principal Statistics of the Lubricating Oils and Greases Industry, 1949-1953

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1949	14	251	556,738	14,666	5,200,778	6,846,917
1950	14	328	849,511	28,914	6,489,520	7,995,295
1951	16	331	972,773	48,527	8,163,903	11,087,517
1952	15	334	1,088,527	68,014	8,913,243	12,320,823
1953	13	286	988,784	57,529	7,215,941	10,391,128

TABLE 26. Principal Statistics of the Lubricating Oils and Greases Industry, by Provinces, 1952 and 1953

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1952						
Quebec	4	92	262,975	39,527	3,149,268	5,417,022
Ontario	8	227	781,039	22,637	5,537,932	6,547,474
Saskatchewan	1	15	44,513	5,850	226,043	356,327
British Columbia	2					
Canada	15	334	1,088,527	68,014	8,913,243	12,320,823
1953						
Quebec	4	61	191,596	24,372	1,819,124	3,487,066
Ontario	7	225	797,188	33,157	5,396,817	6,904,062
Saskatchewan	1					
British Columbia	1					
Canada	13	286	988,784	57,529	7,215,941	10,391,128

TABLE 27. Products Made in the Lubricating Oils and Greases Industry, 1952 and 1953

Product	Unit of measure	1952		1953	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Greases, lubricating	pound	18,765,772	2,255,045	14,096,250	1,457,920
Oils, lubricating	gallon	12,822,217	9,972,901	11,994,387	8,560,939
Soap	-	-	62,961	-	20,846
All other products	-	-	29,916	-	351,423
Total	-	-	12,320,823	-	10,391,128

TABLE 28. Materials Used in the Lubricating Oils and Greases Industry, 1952 and 1953

Material	Unit of measure	1952		1953	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Compounding stocks (oils, etc.)	Imp. gal.	14,201,417	5,554,955	14,819,505	4,214,855
Tallow and grease	lb.	114,923	7,901	100,800	9,090
All other materials	—	—	1,498,312	—	1,229,825
Shipping containers	—	—	1,852,075	—	1,762,171
Total	—	—	8,913,243	—	7,215,941

TABLE 29. Sales of Lubricating Oils, 1952 and 1953 (As reported by principal dealers)

Province	Motor transport and tractor crankcase oil	Aircraft crankcase oils	Other oils (industrial, etc.)	Total all purposes
	Imperial gallons			
1952				
Newfoundland	559,000	89,000	431,000	1,079,000
Maritimes	3,342,000	124,000	1,648,000	5,114,000
Quebec	8,639,000	244,000	6,092,000	14,975,000
Ontario	16,892,000	254,000	18,151,000	35,297,000
Manitoba	3,115,000	163,000	1,712,000	4,990,000
Saskatchewan	4,996,000	31,000	409,000	5,436,000
Alberta	6,521,000	120,000	1,096,000	7,737,000
British Columbia (including Yukon).....	5,012,000	126,000	2,162,000	7,300,000
Total — Canada	49,076,000	1,151,000	31,701,000	81,928,000
1953				
Newfoundland	597,000	124,000	400,000	1,121,000
Maritimes	3,507,000	135,000	1,763,000	5,405,000
Quebec	9,274,000	293,000	6,204,000	15,771,000
Ontario	17,017,000	262,000	16,979,000	34,258,000
Manitoba	3,476,000	173,000	1,676,000	5,325,000
Saskatchewan	5,101,000	52,000	397,000	5,550,000
Alberta	6,517,000	149,000	1,281,000	7,947,000
British Columbia (including Yukon).....	5,228,000	124,000	2,201,000	7,553,000
Total — Canada	50,717,000	1,312,000	30,901,000	82,930,000

TABLE 30. Sales of Lubricating Greases, 1952 and 1953 (As reported by principal dealers)

	Lubricating greases			Automotive gear oils
	Automotive	Industrial	Total	
	pounds			pounds
1952				
Newfoundland	297,000	181,000	478,000	255,000
Maritimes	1,802,000	1,436,000	3,238,000	1,915,000
Quebec	6,277,000	5,470,000	11,747,000	5,364,000
Ontario	9,864,000	14,434,000	24,298,000	12,395,000
Manitoba	2,296,000	1,942,000	4,238,000	2,878,000
Saskatchewan	6,478,000	372,000	6,850,000	4,138,000
Alberta	5,491,000	1,486,000	6,977,000	5,571,000
British Columbia (including Yukon).....	2,381,000	1,598,000	3,979,000	3,136,000
Total - Canada	34,886,000	26,919,000	61,805,000	35,652,000
1953				
Newfoundland	307,000	138,000	445,000	276,000
Maritimes	1,861,000	1,399,000	3,260,000	1,781,000
Quebec	4,392,000	5,633,000	10,025,000	7,081,000
Ontario	9,469,000	14,163,000	23,632,000	11,964,000
Manitoba	1,965,000	2,018,000	3,983,000	2,654,000
Saskatchewan	5,252,000	358,000	5,610,000	3,934,000
Alberta	4,921,000	1,394,000	6,315,000	5,003,000
British Columbia (including Yukon).....	1,712,000	1,443,000	3,155,000	3,614,000
Total - Canada	29,879,000	26,546,000	56,425,000	36,307,000

TABLE 31. Imports of Petroleum, Asphalt, and Their Products, 1952 and 1953

Item	1952		1953	
	Quantity	Value	Quantity	Value
		\$		\$
Asphaltum or asphalt, solid or not..... cwt.	219,641	646,570	451,921	857,210
Asphalt oil for paving	—	—	—	—
Oil, imported by miners or mining companies, for the concentration of ores or metals	gal.	217,530	230,009	168,744
Crude petroleum for refining, .8155 specific gravity (42.0 A.P.I.) or heavier at 60° Fah.	gal.	2,841,968	206,838,147	2,781,707
Crude petroleum, n.o.p.	gal.	19,192	2,080	16,654
Fuel oil, ex-warehoused, for ships' stores	"	15,598,798	692,812	18,796,458
Kerosene, n.o.p.	"	33,814,292	4,013,338	26,708,398
Engine distillate, .8017 specific gravity or heavier at 60° Fah.	"	178,714	23,736	231,011
Gasoline, lighter than .8236 specific gravity at 60° Fah.	"	154,276,266	22,794,416	184,136,880
Aviation gasoline	"	72,428,954	13,895,589	79,861,231
Natural casinghead, compression or absorption gasoline lighter than .6690 specific gravity (80.0 A.P.I.) at 60° Fah., when imported by refiners of crude petroleum for blending with gasoline wholly produced in Canada.....	"	23,501,268	2,433,895	27,610,165
Lubricating oils, composed wholly or in part of petroleum and costing less than 25 cents per gallon	"	14,120,488	2,731,861	23,595,576
Lubricating oils costing 25 cents or more per gallon....	"	17,181,114	6,336,634	11,351,934
Oils, mineral, n.o.p.	"	2,436,490	3,217,696	2,618,120
Stove oil, No. 1 fuel oil	"	82,560,140	9,571,041	106,812,256

TABLE 31. Imports of Petroleum, Asphalt, and Their Products, 1952 and 1953 - Concluded

Item	1952		1953	
	Quantity	Value	Quantity	Value
		\$		\$
Light fuel and furnace oils, Nos. 2 and 3..... gal.	266,037,963	27,949,749	275,707,181	27,778,738
Heavy fuel oils, Nos. 4, 5 and 6	308,551,855	18,187,582	267,744,747	16,128,933
Diesel fuel.....	86,204,845	8,506,898	71,166,322	7,865,673
Tractor fuel	235	36	-	-
Petroleum greases and lubricating greases, n.o.p. lb.	18,163,012	1,501,248	20,193,059	1,850,603
Refined petroleum jellies and oils for toilet, medicinal, edible or similar purposes	-	591,603	-	603,623
Paraffin wax	30,290,450	1,957,224	36,816,140	2,189,061
Paraffin wax candles	234,929	66,426	309,536	93,729
Naphtha, including solvent naphtha..... gal.	6,409,320	1,392,781	12,812,190	2,526,073
Products of petroleum n.o.p., lighter than .8236 specific gravity at 60° Fah.	5,932,173	2,285,920	14,570,878	3,632,530
Liquefied petroleum gases	191,700,940	2,899,786	263,070,780	3,530,232
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° Fah., when imported by oil refiners to be refined	gal. 54,303,428	3,195,322	75,237,668	5,106,463

TABLE 32. Exports of Petroleum and Its Products, 1952 and 1953

Item	1952		1953	
	Quantity	Value	Quantity	Value
		\$		\$
Petroleum, crude	gal. 49,855,950	3,452,231	87,755,990	6,227,828
Oil, coal and kerosene, refined.....	" 2,754	653	1,998	508
Gasoline and naphtha	" 32,083,079	5,035,108	166,676	37,576
Fuel oil	" 132,254	21,254	5,513,958	428,700
Lubricating oil	" 87,980	194,856	25,645	32,015
Oil, mineral, n.o.p.	" 12,568	8,375	8,870	10,196
Wax, mineral	cwt. 20,416	180,715	5,254	36,008

TABLE 33. Employees and Their Earnings in the Lubricating Oils and Greases Industry, 1952 and 1953

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1952								
Ontario.....	52	13	160	2	227	254,343	526,696	781,039
Other provinces	23	7	70	7	107	89,762	217,726	307,488
Canada.....	75	20	230	9	334	344,105	744,422	1,088,527
1953								
Ontario.....	52	12	150	3	217	260,198	514,443	774,641
Other provinces	12	5	48	4	69	67,041	147,102	214,143
Canada.....	64	17	198	7	286	327,239	661,545	988,784

TABLE 34. Employees and Their Earnings in Petroleum Refineries, 1952 and 1953

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1952								
Quebec	547	78	1,932	11	2,568	2,709,317	7,613,155	10,322,472
Ontario	1,711	671	2,589	30	5,001	10,163,270	9,684,784	19,848,054
Manitoba	83	73	211	—	367	568,460	822,439	1,390,899
Saskatchewan	185	62	553	3	803	989,933	2,074,927	3,064,860
Alberta	289	69	868	2	1,228	1,707,400	3,273,653	4,981,053
British Columbia	219	49	450	—	718	1,172,496	1,796,008	2,968,504
Other provinces	76	24	432	11	543	463,333	1,660,433	2,123,766
Canada	3,110	1,026	7,035	57	11,228	17,774,209	26,925,399	44,699,608
1953								
Quebec	548	83	1,935	9	2,575	2,945,560	7,768,776	10,714,336
Ontario	1,592	630	2,601	31	4,854	9,798,168	10,360,671	20,158,839
Manitoba	90	91	219	—	400	669,913	900,556	1,570,469
Saskatchewan	249	78	668	1	996	1,299,943	2,569,889	3,869,832
Alberta	298	79	936	3	1,316	1,775,373	3,545,234	5,320,607
British Columbia	275	47	472	—	794	1,434,116	1,923,039	3,357,155
Other provinces	81	22	427	11	541	489,997	1,730,444	2,220,441
Canada	3,133	1,030	7,258	55	11,476	18,413,070	28,798,609	47,211,679

TABLE 35. Capital and Repair Expenditures in the Petroleum Refining and Lubricating Oils Industry, 1949-1953

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	\$'000						
1949	14,868	6,613	21,481	1,832	8,059	9,891	31,372
1950	9,655	14,510	24,165	3,303	7,136	10,439	34,604
1951	19,849	30,255	50,104	7,474	5,585	13,059	63,163
1952	32,093	28,385	60,478	9,627	6,261	15,888	76,366
1953 ¹	52,569	12,584	65,153	10,140	7,167	17,307	82,460

1. Preliminary.

TABLE 36. Principal Statistics of the Absorption Gasoline Industry, 1952 and 1953

	1952	1953
Number of plants	5	5
Number of employees	99	96
Salaries and wages	\$ 357,287	\$ 374,309
Cost of fuel and electricity at works	\$ 143,648	\$ 115,954
Cost of materials at works	\$ 2,124,299	\$ 1,922,553
Gross selling value of products at works	\$ 4,884,656	\$ 4,636,543

TABLE 37. Products Made in the Absorption Gasoline Industry, 1952 and 1953

Product	Unit of measure	1952		1953	
		Quantity	Selling value at works	Quantity	Value of shipments
			\$		\$
Dry gas ¹	M cu. ft.	32,192,859	2,080,911	19,641,851	1,648,455
Natural gasoline	Imp. gal.	20,027,066	2,054,441	20,419,820	1,740,931
Liquefied petroleum gases (propane and butane)	Imp. gal.	11,969,060	576,246	18,645,058	956,488
Sulphur	Ton	8,671	173,058	16,192	290,671
Total	—	—	8,884,656	—	4,636,545

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 38. Production of Natural Gasoline in Alberta, 1949-1953

	1949	1950	1951	1952	1953
	barrels				
Production — by fields:					
Jumping Pound	—	—	13,657	19,582	33,706
Leduc-Woodbend	—	15,022	43,597	66,500	82,241
Turner Valley	477,446	431,362	457,773	487,000	486,421
Total Alberta	477,446	446,384	515,027	573,082	602,368

TABLE 39. Production¹ and Imports of Liquefied Petroleum Gases, 1949-1953

Year	Production	Imports
	pounds	
1949	48,000,000	142,506,000
1950	63,000,000	155,476,000
1951	112,000,000	188,849,000
1952	184,000,000	191,701,000
1953	263,835,000	263,071,000

1. From all industries.

TABLE 40. Employees and Their Earnings in Absorption Gasoline Plants, 1952 and 1953

		1952	1953
Supervisory and office employees:			
Male	No.	22	16
Female	No.	—	—
Total	No.	22	16
Production workers:			
Male	No.	77	80
Female	No.	—	—
Total	No.	77	80
Total employees	No.	99	96
Salaries	\$	68,684	67,993
Wages	\$	288,603	306,316
Total salaries and wages	\$	357,287	374,309

TABLE 41. Capital and Repair Expenditures by the Absorption Gasoline Plants, 1952 and 1953

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
\$'000							
1952	221	1,102	1,323	4	125	129	1,452
1953 ¹	555	66	621	140	91	231	852

1. Preliminary.

TABLE 42. Fuel and Electricity Used in Petroleum Refineries, 1948 and 1953

Kind	1948		1953		
	Quantity	Cost at works	Quantity	Cost at works	
\$					
Bituminous coal—Imported	tons	2,703	25,405	—	—
Coke	"	8,219	83,273	91,792	685,606
Gasoline	Imp. gal.	527,616	94,044	930,672	180,651
Kerosene	"	8,269	1,366	6,069	1,058
Fuel oil	"	122,953,049	8,893,869	186,880,036	12,587,896
Wood	cords	60	600	—	—
Gas:					
Liquefied petroleum gases (propane, etc.)...	Imp. gal.	1	1	448,245	49,373
Other manufactured gas	M. cu. ft.	10,613,805	5,918,589	20,624,003	10,705,934
Natural gas	M. cu. ft.	3,369,685	383,106	4,899,020	751,539
Other fuel	—	—	1,260,359	—	878,277
Electricity purchased	k.w.h.	132,723,776	944,594	305,169,286	2,157,477
Total cost	—	—	17,605,205	—	27,997,811
Electricity generated for own use	k.w.h.	256,687	—	860,780	—

1. Not collected separately.

TABLE 43. Power Equipment¹ in Petroleum Refineries, 1948 and 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1948				
Steam engines and steam turbines	657	34,821	86	3,507
Diesel engines	14	1,409	—	—
Gasoline, gas and oil engines, other than Diesel engines	32	2,343	5	478
Total primary	703	38,573	91	3,985
Electric motors run by purchased power	2,608	41,606	103	12,271
Total	3,311	80,179	194	16,256
Electric motors run by above primary units	54	284	—	—
Boilers for power purposes only	138	38,137	8	1,145
Motor-generator sets	7	743 k.v.a.	5	283 k.v.a.
1953				
Steam engines and steam turbines	964	89,675	290	15,324
Diesel engines	13	1,736	2	371
Gasoline, gas and oil engines, other than Diesel engines	206	12,597	10	853
Total primary	1,183	104,008	302	16,548
Electric motors run by purchased power	4,814	107,539	288	6,867
Total	5,997	211,547	590	23,415
Electric motors run by above primary units	41	5,771	41	1,275
Boilers for power purposes only	101	130,846	5	2,548
Motor-generator sets	19	710 k.v.a.	1	10 k.v.a.

1. Details shown in Table 43 are collected only every five years; accordingly, data for intervening years are not available.

TABLE 44. Fuel and Electricity Used¹ in the Lubricating Oils and Greases Industry, 1948 and 1953

Kind	1948		1953	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Bituminous coal:				
Canadian	tons	—	102	2,123
Imported	"	8	64	891
Anthracite coal	"	33	25	565
Coke	"	12	—	—
Gasoline	Imp. gal.	2,811	47,570	14,788
Fuel oil	"	285,058	152,873	16,865
Wood	cords	12	11	169
Gas:				
Manufactured	M cu. ft.	337	346	346
Natural	"	300	—	—
Other fuel	—	—	—	—
Electricity purchased	k.w.h.	764,001	1,685,277	21,782
Total	—	—	—	57,529

1. Details shown in Tables 44 and 45 are collected only every five years; accordingly, data for intervening years are not available.

TABLE 45. Power Equipment¹ in the Lubricating Oils and Greases Industry, 1948 and 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1948				
Gasoline, gas and oil engines, other than Diesel engines	2	90	—	—
Electric motors operated by purchased power.....	114	435	—	—
Total	116	525	—	—
1953				
Gasoline, gas and oil engines, other than Diesel engines	2	28	—	—
Electric motors operated by purchased power.....	43	214	1	25
Total	45	242	1	25

1. See footnote to Table 44.

TABLE 46. Fuel and Electricity¹ in the Absorption Gasoline Industry, 1953

Kind	Quantity	Cost at works
		\$
Gasoline Imp. gal.	1,000	340
Gas:		
Liquefied petroleum gases (propane, etc.)..... Imp. gal.	113,630	6,818
Natural gas M. cu. ft.	1,065,353	53,267
Electricity purchased k.w.h.	5,110,200	55,529
Total cost	—	115,954
Electricity generated for own use k.w.h.	779,000	—

TABLE 47. Power Equipment¹ in the Absorption Gasoline Industry, 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	29	1,205	18	924
Gasoline, gas and oil engines, other than Diesel engines	8	2,900	2	700
Total primary	37	4,105	20	1,624
Electric motors run by purchased power	21	280	6	258
Total	58	4,385	26	1,882
Electric motors run by above primary units	3	2,425	5	825
Boilers for power purposes only	13	2,698	—	—
Motor-generator sets	2	112 k.v.a.	2	105 k.v.a.

Directory of Operating Petroleum Refineries, 1953

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.....	Dartmouth	18,000	S-C	Thermal	10,000
New Brunswick:					
New Brunswick Oilfields Ltd.	Weldon.....	300	S	—	—
Quebec:					
British American Oil Co. Limited	Montreal East ..	45,000	S-C	Thermal and Catalytic	21,000
Imperial Oil Limited.....	Montreal East ..	46,000	S-C	Thermal and Catalytic	30,600
McCull-Fontenac Oil Co. Limited.....	Montreal East ..	45,000	S-C	Thermal and Catalytic	34,000
Shell Oil Company of Canada Ltd.....	Montreal East ..	44,000	S-C	Thermal and Catalytic	23,000
Ontario:					
Canadian Oil Companies Limited.....	Corunna.....	20,000	C	Catalytic	8,300
Imperial Oil Limited.....	Sarnia	71,500	S-C	Thermal and Catalytic	41,100
British American Oil Co. Limited	Clarkson	17,000	S-C	Thermal	4,500
Trinidad Leaseholds (Canada) Limited.....	Port Credit	7,000	S-C	Thermal	4,100
Riverlake Oils Limited	Fort William....	4,000	S-C	Catalytic	1,200
Manitoba:					
Anglo-Canadian Oils Ltd.	Brandon.....	3,000	S-C	Thermal	1,375
Imperial Oil Limited.....	East St. Paul....	12,000	S-C	Catalytic	5,200
North Star Oil Limited	St. Boniface ...	4,500	S-C	Thermal	2,000
Radio Oil Refineries Ltd.	East Kildonan..	1,000	S	—	—
Saskatchewan:					
British American Oil Co. Limited	Moose Jaw	15,000	S-C	Thermal and Catalytic	6,000
Consumers' Co-operative Refineries Limited	Regina.....	6,500	S-C	Thermal	2,450
Hi-Way Refineries Limited	Saskatoon	6,500	S-C	Catalytic	2,600
Imperial Oil Limited.....	Regina.....	17,000	S-C	Thermal	10,600
Moose Jaw Refineries Ltd.	Moose Jaw	2,000	S	—	—
Northern Petroleum Corporation Ltd.....	Kamsack	800	S	—	—
Prince Albert Refineries Ltd.....	Prince Albert ..	1,000	S	—	—
Royalite Products Limited	Coleville.....	5,000	S	—	—
Alberta:					
British American Oil Co. Limited	Edmonton	7,000	S-C	Thermal and Catalytic	3,400
British American Oil Co. Limited	Calgary	7,200	S-C	Thermal	2,500
Anglo American Exploration Ltd.....	Hartell.....	3,000	S-C	Thermal	1,500
Imperial Oil Limited.....	Calgary	9,200	S-C	Thermal	4,600
Imperial Oil Limited.....	Edmonton	25,000	S-C	Thermal and Catalytic	18,700
McCull-Fontenac Oil Co. Limited.....	Edmonton	8,000	S-C	Catalytic	2,700
Excelsior Refineries Ltd.	Lloydminster ..	1,500	S-C	Thermal	250
Husky Oil & Refining, Ltd.....	Lloydminster ..	7,500	S	—	—
Wainwright Producers & Refiners Ltd.	Wainwright	700	S	—	—
Bonnyville Oil Refineries Ltd.....	Bonnyville	1,000	S	—	—
British Columbia:					
Imperial Oil Limited.....	Ioco	22,500	S-C	Catalytic	11,500
Shell Oil Company of Canada Ltd.....	Vancouver.....	15,000	S-C	Thermal and Catalytic	5,000
Standard Oil Company of British Columbia Ltd.	Burnaby.....	8,350	S	—	—
Northwest Territories:					
Imperial Oil Limited.....	Norman Wells ..	1,250	S	—	—

Note. S—Skimming, C—Cracking.



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Directory of Plants Engaged in the Compounding of Lubricating Oils and Greases, 1953

Name of company	Location of plant
Quebec:	
Canadian Oil Companies Ltd.	6010 Notre Dame East, Montreal
Chapman, L.L. and W.H.	Champlain St., Gatineau Point
Tide Water Associated Oil Company (Canada) Ltd.	9500 St. Lawrence Blvd., Montreal
Wynn Oil Co. of Canada Ltd.	St-Janvier
Ontario:	
Campbell Lubricating Specialties, Ltd.	414 Eastern Ave., Toronto
Hollingshead, R.M., Co. of Canada, Ltd.	Bowmanville
The Kearns Co. of Canada	226 Weston Road, Toronto
McColl-Frontenac Oil Co. Ltd.	Toronto
Ontario Gasoline & Oil Limited	45 Dickens St., Toronto
Ontario Lubricating Company Ltd.	120 Chatham St., Hamilton
Tide Water Associated Oil Company (Canada) Ltd.	55 Wade Ave., Toronto
Saskatchewan:	
Western Oil Company Limited, The	860 Fairford St. W., Moose Jaw
British Columbia:	
Spotoil Company	205 W. First Ave., Vancouver

List of Absorption Gasoline Plants, 1953

Name of company	Location of plant
British American Oil Company, Limited	Turner Valley, Alberta
Anglo American Exploration Ltd.	Hartell, Alberta
Imperial Oil Limited.	Devon, Alberta
Royalite Oil Company, Limited	Turner Valley, Alberta
Shell Oil Company of Canada, Limited	Jumping Pound, Alberta