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**DOMINION BUREAU OF STATISTICS**  
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**MINING, METALLURGICAL & CHEMICAL BRANCH**

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**THE PETROLEUM PRODUCTS INDUSTRY**

**IN**

**CANADA**

**1944**



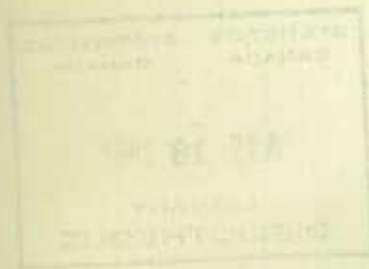
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CANADA

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OFFICE OF THE DIRECTOR

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THE NATIONAL SYSTEM OF PUBLIC LANDS

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## ANNUAL INDUSTRY REPORT

## MANUFACTURES OF THE NON-METALLIC MINERALS GROUP

## PETROLEUM PRODUCTS INDUSTRY, 1944

Statistics for the Petroleum Products Industry cover all establishments in Canada which were occupied chiefly in (a) the refining of crude oil to produce gasoline, fuel oil, etc., and (b) the blending or compounding of lubricating oils and greases.

Thirty-two refineries and 16 blending plants, or a total of 48 works, reported under this category in 1944 and the aggregate value of production was \$210,547,416, an increase of 13 per cent over the 1943 total of \$187,106,054.

Output figures for 1944 included \$209,125,332 for petroleum refineries and \$1,422,084 for concerns engaged in blending oils and greases, against corresponding totals in 1943 of \$185,830,862 and \$1,140,133 respectively. The principal statistics for each of these groups and for the industry as a whole are tabulated below and the detailed figures for each division are recorded separately in the succeeding pages of this report.

Table 1 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY, 1938-1944

Year	Number of plants	Average 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
			\$	\$	\$	\$
<u>Petroleum Refining</u>						
1938	47	4,586	7,750,746	4,678,933	75,993,557	96,121,611
1939	42	4,675	7,736,330	4,573,570	73,922,207	103,494,238
1940	38	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941	35	5,317	10,186,382	7,263,685	125,258,314	155,389,872
1942	35	5,835	11,361,200	7,072,252	121,177,036	162,628,828
1943	35	5,995	12,595,891	8,234,286	137,492,025	185,830,862
1944	32	6,699	14,121,064	8,997,491	152,687,371	209,125,332
<u>Compounding Oils and Greases</u>						
1938	12	89	122,294	4,284	425,959	881,736
1939	11	91	153,917	5,129	543,394	1,084,279
1940	11	96	192,214	5,309	557,632	1,200,303
1941	14	89	140,464	5,005	723,923	1,245,623
1942	18	85	146,052	6,722	747,220	1,087,687
1943	17	90	152,841	6,402	667,859	1,140,133
1944	16	110	196,875	5,076	871,293	1,422,084
<u>TOTAL</u>						
1938	59	4,675	7,873,040	4,683,217	76,419,516	97,003,347
1939	53	4,766	7,890,247	4,578,699	74,465,600	104,578,517
1940	49	5,156	8,808,537	5,751,495	94,860,521	122,212,800
1941	49	5,406	10,326,846	7,268,690	125,982,237	156,635,495
1942	53	5,920	11,507,252	7,078,974	121,924,256	163,716,515
1943	52	6,085	12,748,732	8,240,688	138,159,884	187,106,054
1944	48	6,809	14,317,939	9,002,567	153,558,664	210,547,416

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.

Table 2 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY, BY PROVINCES, 1943 and 1944

Province	Number of plants	Average 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
			\$	\$	\$	\$
<u>1943</u>						
Quebec .....	7	1,020	2,189,093	2,072,300	35,296,425	45,493,574
Ontario .....	16	2,773	5,913,719	3,582,543	49,050,861	69,227,431
Manitoba .....	4	191	292,979	104,128	2,655,016	3,376,004
Saskatchewan .....	9	604	1,181,478	803,802	11,892,749	18,032,525
Alberta .....	7	547	1,078,186	501,837	11,718,323	18,511,038
British Columbia .....	6	381	808,160	411,905	12,354,907	14,807,862
Nova Scotia .....	1)					
New Brunswick .....	1)	569	1,285,117	764,173	15,191,603	17,657,620
Northwest Territories	1)					
CANADA .....	52	6,085	12,748,732	8,240,688	138,159,884	187,106,054
<u>1944</u>						
Quebec .....	7	1,175	2,563,684	2,208,794	40,885,176	52,116,936
Ontario .....	16	3,191	6,794,244	3,974,296	51,226,366	79,980,443
Manitoba .....	3	184	291,369	111,765	2,893,082	3,659,864
Saskatchewan .....	7	649	1,259,106	964,218	15,387,991	19,824,611
Alberta .....	6	572	1,124,681	502,353	12,718,167	18,987,615
British Columbia .....	6	416	896,217	483,063	15,387,576	17,278,020
Nova Scotia .....	1)					
New Brunswick .....	1)	622	1,388,638	758,078	15,060,306	18,699,927
Northwest Territories	1)					
CANADA .....	48	6,809	14,317,939	9,002,567	153,558,664	210,547,416

(a) THE PETROLEUM REFINING INDUSTRY, 1944

Thirty-two petroleum refineries operating in Canada during 1944 were distributed by provinces as follows: 7 in Saskatchewan, 6 in Alberta, 6 in Ontario, 4 in Quebec, 3 in Manitoba, 3 in British Columbia and 1 in each of Nova Scotia, New Brunswick and Northwest Territories. Compared with 1943, there was a decrease of 1 refinery in each of Alberta, Saskatchewan and Manitoba. The operating refineries had a capacity of 238,415 barrels of crude oil per day, of which Ontario had 75,450 barrels or 32 per cent; Quebec 63,000 barrels or 26 per cent; Nova Scotia 34,000 barrels or 14 per cent; British Columbia 24,800 barrels or 10 per cent; Saskatchewan 17,075 barrels or 7 per cent; Alberta 19,000 barrels or 8 per cent; Manitoba 4,000 barrels or 1 per cent; the Northwest Territories 840 barrels or .3 per cent, and New Brunswick 250 barrels. Location, type and capacity for each of these refineries is recorded in the directory at the end of this report.

During the year, 1,982,671,799 gallons of imported crude oil and 300,536,071 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 2,283,207,870 gallons was put through Canadian refineries, this amounting to about 66 per cent of the rated capacity. Of the total crude input, about 50 per cent was imported from the United States and nearly 37 per cent from other countries, while about 13 per cent came from Canadian wells. The total cost at the refineries of all crude oil and naphtha charged to stills during the year was \$140,689,609. Stocks of crude oil held at the refineries on December 31 amounted to 222,617,335 gallons.

Refinery production of gasoline in 1944 amounted to 970,941,172 gallons, and in addition the refineries used for blending about 15,879,938 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1944 was 12 per cent over 1943, which, in turn, was 16 per cent under 1942. The refinery selling value of the gasoline made during the year was \$122,792,541. Stocks of gasoline held by the refineries on December 31 included 113,645,260 gallons of straight run or cracked gasoline and 495,643 gallons of imported casinghead gasoline. In 1944 there was an output of 15,686,510 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 91,400,575 gallons during 1944, which, added to the production of 970,941,172 gallons less the increase in producers', distributors', and consumers' stocks of 64,433,000 gallons and less the exports of 21,494,799 gallons, made an apparent Canadian consumption of 976,413,948 gallons. Actual sales as reported to the Bureau on a monthly basis amounted to 970,472,000 gallons.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 901,145,537 gallons, of which 799,558,187 gallons were made for sale and 101,587,350 gallons for use as fuel in the producing plant. Imports amounted to 63,323,016 gallons and exports to 46,933,606 gallons. Stocks of fuel oil and distillate at the end of the year stood at 108,856,038 gallons, or about 8,919,350 gallons less than in 1943. Output of tractor and engine distillate was 42,125,832 gallons in 1944, imports amounted to 474,253 gallons, and producers' stocks increased 2,679,502 gallons. The apparent consumption of fuel oils and distillate in Canada as calculated from the above figures, amounted to 966,374,880 gallons.

Monthly employment in the refining industry averaged 6,699 persons who received \$14,121,064 in salaries and wages. Expenditures for fuel and electricity amounted to \$8,997,491 and \$152,687,371 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1941-1944

Province	1 9 4 1		1 9 4 2		1 9 4 3		1 9 4 4	
	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	34,000	1	34,000	1	34,000	1	34,000
New Brunswick .....	1	250	1	250	1	250	1	250
Quebec .....	4	67,000	4	67,000	4	67,000	4	63,000
Ontario .....	5	68,000	5	68,000	6	76,250	6	75,450
Manitoba .....	4	4,150	4	3,650	4	4,150	3	4,000
Saskatchewan .....	9	17,300	8	16,775	8	16,825	7	17,075
Alberta .....	7	16,250	8	18,100	7	18,400	6	19,000
British Columbia ...	3	24,500	3	24,500	3	24,500	3	24,800
Northwest Territories	1	840	1	840	1	840	1	840
<b>CANADA .....</b>	<b>35</b>	<b>232,290</b>	<b>35</b>	<b>233,115</b>	<b>35</b>	<b>242,215</b>	<b>32</b>	<b>238,415</b>

Note: 1 barrel = 35 Imp. gal.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1930-1944

Year	Number of refineries	Average 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
			\$	\$	\$	\$
1930 .....	15	5,030	8,003,357	3,859,683	71,307,879	90,809,711
1931 .....	20	4,058	6,110,068	3,371,118	50,353,423	75,588,425
1932 .....	24	4,058	5,897,811	3,338,648	52,029,471	71,360,324
1933 .....	37	4,551	6,041,230	3,120,719	48,916,966	69,803,721
1934 .....	42	4,876	6,274,799	3,117,697	56,659,492	75,785,677
1935 .....	45	4,771	7,046,675	3,839,424	53,415,916	79,176,081
1936 .....	50	4,935	7,193,148	3,927,321	66,219,148	85,172,981
1937 .....	44	5,047	8,126,583	4,444,878	79,993,972	97,701,954
1938 .....	47	4,586	7,750,746	4,678,933	75,993,557	96,131,611
1939 .....	42	4,675	7,736,330	4,573,570	73,922,207	103,494,238
1940 .....	38	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941 .....	35	5,317	10,186,382	7,263,685	125,258,314	155,389,872
1942 .....	35	5,825	11,361,200	7,072,252	121,177,036	162,628,828
1943 .....	35	5,995	12,595,891	8,234,286	137,492,025	185,965,921
1944 .....	32	6,699	14,121,064	8,997,491	152,687,371	209,125,332

Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, BY PROVINCES, 1943 and 1944

Province	Number of Refineries	Average 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
<b>1943</b>						
Quebec .....	4	995	2,137,806	2,069,601	35,237,198	45,355,666
Ontario .....	6	2,719	5,828,163	3,580,096	48,481,273	68,294,809
Manitoba .....	4	191	292,979	104,128	2,655,016	3,376,004
Saskatchewan .....	8	602	1,178,788	803,242	11,891,749	18,028,425
Alberta .....	7	547	1,078,186	501,837	11,718,323	18,511,038
British Columbia ....	3	372	794,852	411,209	12,316,863	14,742,339
Other provinces (x) ..	3	569	1,285,117	764,173	15,191,603	17,657,620
<b>CANADA .....</b>	<b>35</b>	<b>5,995</b>	<b>12,595,891</b>	<b>8,234,286</b>	<b>137,492,025</b>	<b>185,965,921</b>
<b>1944</b>						
Quebec .....	4	1,149	2,510,150	2,206,344	40,823,475	51,970,786
Ontario .....	6	3,115	6,666,927	3,972,365	50,453,958	78,801,590
Manitoba .....	3	184	291,369	111,765	2,893,082	3,659,864
Saskatchewan .....	7	649	1,259,106	964,218	15,387,991	19,824,611
Alberta .....	6	572	1,124,681	502,353	12,718,167	18,987,615
British Columbia ....	3	408	880,193	482,368	15,350,392	17,180,939
Other provinces (x) ..	3	622	1,388,638	758,078	15,060,306	18,699,927
<b>CANADA .....</b>	<b>32</b>	<b>6,699</b>	<b>14,121,064</b>	<b>8,997,491</b>	<b>152,687,371</b>	<b>209,125,332</b>

(x) Includes one refinery in each of Nova Scotia, New Brunswick and the Northwest Territories.

Table 6 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1943 and 1944

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
<b>1943</b>								
Quebec .....	187	32	773	3	995	614,127	1,523,679	2,137,806
Ontario .....	427	170	2,034	88	2,719	1,506,606	4,321,557	5,828,163
Manitoba .....	43	12	136	...	191	96,496	196,483	292,979
Saskatchewan .....	106	43	445	8	602	359,742	819,046	1,178,788
Alberta .....	80	24	438	5	547	303,211	774,975	1,078,186
British Columbia ....	60	17	289	6	372	236,288	558,564	794,852
Other provinces .....	60	33	466	10	569	299,587	985,530	1,285,117
<b>CANADA .....</b>	<b>963</b>	<b>331</b>	<b>4,581</b>	<b>120</b>	<b>5,995</b>	<b>3,416,057</b>	<b>9,179,834</b>	<b>12,595,891</b>
<b>1944</b>								
Quebec .....	207	30	905	7	1,149	657,834	1,852,316	2,510,150
Ontario .....	455	147	2,374	139	3,115	1,691,268	4,975,659	6,666,927
Manitoba .....	35	16	132	1	184	77,515	213,854	291,369
Saskatchewan .....	125	53	461	10	649	377,373	881,733	1,259,106
Alberta .....	98	17	450	7	572	316,983	807,698	1,124,681
British Columbia ....	73	15	314	6	408	255,501	624,692	880,193
Other provinces .....	81	25	501	15	622	314,053	1,074,585	1,388,638
<b>CANADA .....</b>	<b>1,074</b>	<b>303</b>	<b>5,137</b>	<b>185</b>	<b>6,699</b>	<b>3,690,527</b>	<b>10,430,537</b>	<b>14,121,064</b>

Table 7 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1944 (On the last work-day of each month)

Month	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other provinces	CANADA
January .....	834	2,409	127	436	439	299	498	5,042
February .....	844	2,450	123	434	439	302	500	5,092
March .....	852	2,482	127	451	439	305	508	5,164
April .....	876	2,442	131	478	443	308	512	5,190
May .....	888	2,514	134	507	480	320	526	5,369
June .....	925	2,587	138	513	461	332	574	5,530
July .....	947	2,628	142	518	499	344	580	5,658
August .....	930	2,589	135	515	507	339	541	5,556
September .....	954	2,490	127	501	465	324	505	5,366
October .....	959	2,510	129	471	434	319	493	5,315
November .....	978	2,568	137	434	431	320	489	5,357
December .....	964	2,488	139	413	443	326	480	5,253
AVERAGE .....	912	2,513	133	471	457	320	516	5,322

Table 8 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1943 and 1944 (In one week of month of highest employment; overtime included)

Regular Hours Worked per Week	Number of Wage-Earners					
	1943			1944		
	Male	Female	TOTAL	Male	Female	TOTAL
30 hours or less .....	86	19	105	105	11	116
31-43 hours .....	668	8	676	844	28	872
44 hours .....	2,469	74	2,543	1,942	135	2,077
45-47 hours .....	90	3	93	137	3	140
48 hours .....	1,303	29	1,332	1,740	30	1,770
49-50 hours .....	76	...	76	88	1	89
51-54 hours .....	192	...	192	311	...	311
55 hours .....	6	...	6	35	...	35
56-64 hours .....	296	2	298	315	2	317
65 hours and over .....	50	...	50	71	...	71
TOTAL .....	5,236	135	5,371	5,588	210	5,798
Total wages paid in week .....	\$ 195,729	2,680	198,409	206,448	5,639	212,087

Table 9 - FUEL(x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1943 and 1944

Kind	Unit of measure	1943		1944	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian .....	ton	...	...	91	855
Imported .....	ton	55,640	330,673	18,051	125,121
Coke, including petroleum coke .....	ton	7,141	45,894	1,645	10,943
Gasoline .....	Imp.gal.	408,112	95,998	306,413	60,758
Kerosene .....	Imp.gal.	175,349	17,824	63,545	6,976
Fuel oil .....	Imp.gal.	83,571,909	3,897,181	103,378,129	4,524,045
Wood .....	cord	277	1,129	290	1,429
Gas - Manufactured, including still gas	M cu.ft.	8,385,106	2,774,211	9,626,178	3,190,405
Natural .....	M cu.ft.	2,083,391	168,360	2,283,330	184,529
Other fuel .....	...	...	269,866	...	172,176
Electricity purchased .....	K. W. H.	87,904,868	633,150	101,054,898	720,254
TOTAL .....	...	...	8,234,286	...	8,997,491
Electricity generated for own use ..	K. W. H.	371,429	...	381,005	...

(x) Includes fuel oil, still gas, petroleum coke, etc., produced in the refineries and used by the producers for heating stills, buildings, etc., or for power purposes.

Table 10 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1943 and 1944

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<b>1943</b>				
Steam engines .....	210	7,194	48	1,191
Steam turbines .....	375	21,551	21	1,904
Diesel engines .....	8	1,105	...	...
Gasoline, gas and oil engines (except diesel) .....	30	2,478	3	151
<b>Total Primary Equipment .....</b>	<b>623</b>	<b>32,328</b>	<b>72</b>	<b>3,246</b>
Electric motors run by purchased power .....	2,291	56,790	93	2,855
<b>TOTAL .....</b>	<b>2,539</b>	<b>67,567</b>	<b>144</b>	<b>4,197</b>
Electric motors run by power generated by primary equipment above .....	39	191	...	...
Stationary boilers .....	136	37,778	7	2,277
Motor-generator sets .....	19	984	...	...
<b>1944</b>				
Steam engines .....	215	7,873	47	1,087
Steam turbines .....	402	22,400	21	1,904
Diesel engines .....	7	990	...	...
Gasoline, gas and oil engines (except diesel) .....	34	2,568	2	76
<b>Total Primary Equipment .....</b>	<b>658</b>	<b>33,831</b>	<b>70</b>	<b>3,067</b>
Electric motors run by purchased power .....	2,022	36,719	71	1,338
<b>TOTAL .....</b>	<b>2,680</b>	<b>70,550</b>	<b>141</b>	<b>4,405</b>
Electric motors run by power generated by primary equipment above .....	51	279	...	...
Stationary power boilers .....	144	40,666	6	455
Motor-generator sets .....	12	986	...	...

Table 11 - MATERIALS USED IN PETROLEUM REFINERIES, 1943 and 1944

Material	Unit of measure	1943		1944	
		Quantity	Cost at works	Quantity	Cost at works
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells	Imp.gal.	322,873,457	17,371,041	287,359,621	16,061,249
Absorption gasoline, etc., from Canadian wells (run to stills) ...	Imp.gal.	14,197,217	891,721	13,176,450	796,167
Crude oil, in its natural state, imported, (run to stills) -					
(a) From United States .....	Imp.gal.	1,443,428,128	91,367,996	1,162,235,098	73,219,333
(b) From Other Countries .....	Imp.gal.	303,062,252	18,203,645	820,436,701	50,612,860
Crude oil, not in its natural state (run to stills) .....	Imp.gal.	491,855	73,487	...	...
Benzol for blending .....	Imp.gal.	2,674,901	382,248	3,650,151	548,758
Phenol .....	pound	557,559	82,103	892,069	126,539
Sulphuric acid, 66° Be .....	pound	40,683,213	462,617	42,768,370	461,306
Sulphur .....	pound	94,432	2,360	102,090	2,628
Caustic soda .....	pound	6,218,934	178,163	8,331,182	223,316
Soda ash .....	pound	398,557	9,377	480,416	11,335
Litharge .....	pound	305,045	23,582	369,981	30,346
Fuller's earth, bentonite and other clays .....	pound	25,390,653	601,283	27,993,850	653,741
Compounding materials .....	...	...	287,571	...	353,699
Tetraethyl fluid .....	c.c.	1,752,403,904	4,024,703	1,393,917,796	3,311,309
Blending stocks for aviation gasoline	Imp.gal.	7,925,244	2,061,939	14,997,331	4,769,116
Other materials .....	...	...	800,930	...	896,425
Shipping containers .....	...	...	667,259	...	609,244
<b>TOTAL .....</b>	<b>...</b>	<b>...</b>	<b>137,492,025</b>	<b>...</b>	<b>152,687,371</b>



Table 12 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1944

Material		Eastern Provinces	Ontario	Manitoba	Saakat- chewan	Alberta	British Columbia and Northwest Territories
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells ....	gal.	823,364	4,825,919	17,038,109	66,390,473	195,764,556	2,517,200
	⌘	32,934	344,067	1,359,598	4,403,445	9,814,585	106,620
Absorption gasoline, etc. from Canadian wells (run to stills) .....	gal.	...	...	...	624,663	12,551,787	...
	⌘	...	...	...	50,597	745,570	...
Crude oil, in its natural state, imported (run to stills) -							
(a) From United States .	gal.	72,459,441	762,620,029	16,470,982	127,432,508	...	183,252,138
	⌘	5,461,356	46,644,200	1,482,196	10,245,178	...	9,386,403
(b) From Other Countries	gal.	759,458,511	...	...	...	...	60,978,190
	⌘	47,024,191	...	...	...	...	3,588,669
Crude oil, not in its natural state, imported	gal.	...	...	...	...	...	...
	⌘	...	...	...	...	...	...
Benzol for blending .....	gal.	842,662	2,788,799	...	18,690	...	...
	⌘	127,799	416,253	...	4,706	...	...
Sulphuric acid 66° Be ...	Pound	1,876,906	30,612,985	199,260	837,414	7,011,066	2,230,739
	⌘	19,177	323,118	4,695	13,733	78,240	22,343
Sulphur .....	Pound	12,664	29,031	995	1,600	57,800	...
	⌘	338	773	40	64	1,413	...
Caustic soda .....	Pound	3,973,577	1,951,205	240,415	534,874	1,185,526	445,585
	⌘	102,271	38,979	8,115	17,947	41,764	14,240
Soda ash .....	Pound	60,500	23,850	3,100	309,096	73,070	10,800
	⌘	1,246	355	139	7,227	2,125	243
Litharge .....	Pound	20,845	99,913	1,618	5,986	241,070	549
	⌘	1,181	8,440	178	661	19,838	48
Fullers' earth and clay .	Pound	769,050	27,091,240	...	40,550	103,010	...
	⌘	11,433	639,591	...	791	1,926	...
Compounding materials ...	⌘	...	353,699	...	...	...	...
Tetraethyl fluid .....	⌘	1,377,706	640,249	14,628	383,461	507,455	387,810
Other materials .....	⌘	1,559,023	473,933	23,493	260,181	1,505,251	1,970,199
Shipping containers .....	⌘	15,617	570,301	...	...	...	23,326
TOTAL .....	⌘	55,734,272	50,453,958	2,893,082	15,387,991	12,718,167	15,499,901

⌘ = Cost at works.

Table 13 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1931 - 1944

Year	Canadian (a)	Imported (b)	TOTAL
	Imp. gal.	Imp. gal.	Imp. gal.
1931 .....	49,668,529	1,025,119,509	1,074,788,038
1932 .....	37,340,321	892,773,734	930,114,055
1933 .....	32,404,139	1,011,806,711	1,044,210,850
1934 .....	41,461,763	1,068,048,580	1,109,510,343
1935 .....	40,785,473	1,155,625,970	1,196,411,443
1936 .....	42,792,311	1,243,670,584	1,286,462,895
1937 .....	90,004,669	1,343,577,025	1,433,581,694
1938 .....	236,492,200	1,182,166,965	1,418,659,164
1939 .....	262,198,884	1,307,704,411	1,569,903,295
1940 .....	302,235,830	1,443,252,451	1,745,494,281
1941 .....	352,839,574	1,681,058,493	2,033,898,067
1942 .....	359,535,738	1,551,617,151	1,911,152,889
1943 .....	337,070,674	1,746,982,235	2,084,052,909
1944 .....	300,536,071	1,982,671,799	2,283,207,870

(a) Includes the crude naphtha and absorption gasoline from the Turner Valley field which was run to refinery stills.

(b) Includes reduced crude.

Table 14 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1944 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp.gal.	16,227,411
	\$	2,133,633
Imported natural casinghead gasoline used for blending during the year .....	Imp.gal.	15,879,938
Total stocks of imported natural casinghead gasoline at the end of the year .	Imp.gal.	495,643

Table 15 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1943 and 1944

Product	Unit of measure	1943		1944	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
		\$		\$	
<b>Made for sale -</b>					
Gasoline (1) Straight run - Aviation	Imp.gal.	118,866,138	23,250,266	106,179,849	20,824,870
Standard	Imp.gal.	273,228,417	31,567,666	361,781,250	42,181,182
By cracking (2) Aviation	Imp.gal.	1,641,220	290,331	1,083,600	159,525
Standard	Imp.gal.	475,323,338	54,884,836	501,611,868	59,577,615
Stove oil (40°-42.5° A.P.I.) .....	Imp.gal.	27,628,033	1,689,781	28,437,386	1,730,572
Gas and light fuel oil (20°-40° A.P.I., except diesel) .....	Imp.gal.	131,731,939	7,986,051	117,459,777	6,902,795
Diesel fuel oil (all fuel oil sold under this name) .....	Imp.gal.	113,610,054	6,425,857	91,905,867	5,087,576
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	536,980,450	25,754,878	561,755,157	26,899,271
Tractor and engine distillate .....	Imp.gal.	39,433,111	3,926,571	42,125,587	4,016,904
V.M. and P. or solvent naphtha ....	Imp.gal.	24,842,055	2,870,943	27,542,328	3,301,325
Kerosene .....	Imp.gal.	29,014,580	3,091,665	28,108,877	3,261,941
Lubricating oil .....	Imp.gal.	39,651,627	8,671,595	46,450,828	10,814,700
Lubricating grease .....	pound	21,411,920	1,216,548	19,853,223	869,580
Asphalt .....	Imp.gal.	45,879,562	3,792,572	62,909,214	5,419,257
Petroleum coke .....	ton	78,166	567,482	71,158	507,166
Other products (3) .....	...	...	2,606,815	...	9,400,632
<b>TOTAL - MADE FOR SALE .....</b>	<b>...</b>	<b>...</b>	<b>178,593,857</b>	<b>...</b>	<b>200,954,911</b>
<b>Made for own use -</b>					
Gasoline - Straight run .....	Imp.gal.	151,221	41,780	267,342	46,682
By cracking process .....	Imp.gal.	77,903	9,120	17,263	2,667
Stove oil .....	Imp.gal.	1,017	52	1,075	53
Gas and light fuel oil (20°-40° A.P.I.) .....	Imp.gal.	47,781	3,111	45,223	2,982
Diesel fuel oil .....	Imp.gal.	107,178	6,103	116,372	6,476
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	83,543,453	3,996,747	101,424,680	4,609,437
Tractor and engine distillate .....	Imp.gal.	...	...	245	19
Kerosene .....	Imp.gal.	182,622	18,510	68,236	7,707
Lubricating oil .....	Imp.gal.	92,198	20,182	117,341	26,575
Asphalt .....	Imp.gal.	27,997	2,137	213,197	17,570
Petroleum coke .....	ton	7,146	49,355	1,651	10,997
Still gas .....	M cu.ft.	8,385,106	2,953,760	9,167,488	3,193,500
Other products .....	...	...	271,207	...	245,756
<b>TOTAL - MADE FOR OWN USE .....</b>	<b>...</b>	<b>...</b>	<b>7,372,064</b>	<b>...</b>	<b>8,170,421</b>
<b>GRAND TOTAL .....</b>	<b>...</b>	<b>...</b>	<b>185,965,921</b>	<b>...</b>	<b>209,125,332</b>

(1) Includes recoveries from Turner Valley naphtha and natural gasoline run to refinery stills but does not include the imported casinghead gasoline which was used for blending at the refineries.

(2) Includes polymer gasoline.

(3) Includes wax, candles, still gas for sale, butane, propane, cumene, 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 16 - PRODUCTS MADE IN PETROLEUM REFINERIES, BY PROVINCES, 1944

Product	Unit of measure	Eastern Provinces	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories
<b>Made for sale -</b>							
Gasoline .....	Imp.gal.	315,912,067	339,020,129	18,008,842	108,108,784	124,575,025	65,031,720
	\$	42,513,430	41,269,320	2,515,725	13,367,488	14,197,114	8,880,115
Fuel oil and gas oil	Imp.gal.	363,466,405	193,423,174	7,028,018	39,838,204	38,929,098	156,873,288
	\$	18,832,388	10,369,930	449,367	1,859,113	1,670,447	7,438,969
Tractor and engine distillate .....	Imp.gal.	...	5,630,061	4,063,367	21,509,925	10,922,234	...
	\$	...	568,569	445,652	2,119,226	883,457	...
V. M. & P. or solvent naphtha .	Imp.gal.	9,961,043	12,798,743	389,241	1,172,513	1,044,553	2,176,235
	\$	1,215,384	1,493,742	69,856	134,456	123,910	263,977
Kerosene .....	Imp.gal.	3,345,284	16,462,710	560,480	4,323,768	3,416,635	...
	\$	383,970	1,816,271	87,559	551,618	422,523	...
Lubricating oil ...	Imp.gal.	831,575	44,892,193	...	145,812	...	581,248
	\$	180,449	10,464,305	...	43,408	...	126,538
Grease .....	Pound	14,918	19,817,663	...	...	...	20,642
	\$	567	867,930	...	...	...	1,083
Asphalt .....	Imp.gal.	32,123,361	18,186,032	...	2,965,730	5,743,093	3,890,998
	\$	2,685,702	1,641,737	...	226,074	499,292	366,452
Petroleum coke ....	Ton	3,637	65,713	...	1,785	23	...
	\$	20,862	473,759	...	12,497	48	...
Other products ....	\$	1,680,254	6,118,000	...	664,124	938,254	...
<b>TOTAL - MADE FOR SALE</b>	<b>\$</b>	<b>67,513,006</b>	<b>75,083,563</b>	<b>3,568,159</b>	<b>18,978,004</b>	<b>18,735,045</b>	<b>17,077,134</b>
<b>Made for own use -</b>							
Gasoline .....	Imp.gal.	41,230	194,176	18,534	3,000	18,438	9,227
	\$	5,136	36,087	2,409	334	3,574	1,309
Fuel oil and gas oil	Imp.gal.	33,426,734	46,863,051	2,391,157	9,046,103	1,203,507	8,656,798
	\$	1,675,049	2,037,111	89,296	405,460	36,620	375,412
Kerosene .....	Imp.gal.	...	43,447	...	989	23,800	...
	\$	...	4,810	...	124	2,773	...
Lubricating oil ...	Imp.gal.	9,527	107,814	...	...	...	...
	\$	2,068	24,507	...	...	...	...
Petroleum coke ....	Ton	...	1,651	...	...	...	...
	\$	...	10,997	...	...	...	...
Still gas .....	M cu.ft.	2,863,701	4,106,875	...	998,211	1,039,595	159,106
	\$	1,140,360	1,388,348	...	405,854	202,715	56,323
Other products ....	\$	5,393	216,167	...	34,835	6,888	82
<b>TOTAL - MADE FOR OWN USE</b>	<b>\$</b>	<b>2,827,886</b>	<b>3,718,027</b>	<b>91,705</b>	<b>846,607</b>	<b>252,570</b>	<b>433,626</b>
<b>GRAND TOTAL ...</b>	<b>\$</b>	<b>70,340,892</b>	<b>78,801,590</b>	<b>3,659,864</b>	<b>19,824,611</b>	<b>18,987,615</b>	<b>17,518,860</b>

\$ = Gross selling value at works.

Table 17 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1944

	Stocks on hand at refineries on December 31, 1944 Imp.gal.	Increase or decrease over December 31, 1943 Imp.gal.
Crude oil and naphtha, in its natural state, from Canadian wells ...	14,131,169	/ 1,689,970
Absorption gasoline, etc., from Canadian wells .....	989,275	/ 106,680
Crude oil, imported - In its natural state .....	207,496,891	/ 45,672,429
Not in its natural state .....	...	...
<b>Total Crude .....</b>	<b>222,617,335</b>	<b>/ 47,469,079</b>
Gasoline (excluding imported casinghead or Canadian absorption gasoline) .....	113,648,360	/ 31,990,614
Stove oil (40°-42.5° A.P.I.) .....	6,156,050	/ 1,640,954
Gas and light fuel oil (20°-40° A.P.I., excepting diesel) .....	24,319,291	- 5,898,588
Diesel fuel oil .....	16,196,492	/ 7,208,857
Residual fuel oil (10°-20° A.P.I.) .....	62,184,205	- 6,011,122
Fuel oil for use in cracking process .....	34,421,613	/ 3,553,801
Tractor and engine distillate .....	7,458,294	/ 2,679,502
V. M. & P. or solvent naphtha .....	4,638,538	/ 555,739
Kerosene .....	3,882,966	- 5,024,994
Lubricating oils .....	6,029,866	/ 2,363,289
<b>Total Refined .....</b>	<b>278,932,575</b>	<b>/ 33,058,052</b>

Table 18 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1943 and 1944

Areas	1 9 4 3		1 9 4 4	
	Barrels of 35 Imp.gal.	Value \$	Barrels of 35 Imp.gal.	Value \$
New Brunswick .....	24,530	34,342	23,296	32,832
Ontario .....	132,492	311,356	125,067	296,420
Alberta .....	9,601,530	15,724,518	8,727,366	14,468,061
Northwest Territories .....	293,750	400,201	1,223,675	632,587
<b>CANADA .....</b>	<b>10,052,302</b>	<b>16,470,417</b>	<b>10,099,404</b>	<b>15,429,900</b>

Table 19 - REFINERY PRODUCTION OF GASOLINE IN CANADA, 1931 - 1944

Year	Straight run	By cracking	TOTAL	Per cent of total made by cracking
	Imp.gal.	Imp.gal.	Imp.gal.	
1931 .....	278,215,832	191,632,502	469,925,375	41
1932 .....	207,823,273	192,113,405	399,936,678	48
1933 .....	267,086,230	155,850,563	422,936,793	37
1934 .....	294,980,092	166,773,271	461,753,363	36
1935 .....	292,520,425	221,195,579	513,716,004	43
1936 .....	316,207,576	251,451,700	567,659,276	44
1937 .....	361,900,397	278,399,479	640,299,878	43
1938 .....	362,583,649	291,445,476	654,029,125	45
1939 .....	405,738,237	334,825,382	740,563,619	45
1940 .....	409,512,163	370,470,943	779,983,106	47
1941 .....	407,598,772	450,325,682	857,924,454	52
1942 .....	379,371,578	369,993,172	749,364,750	49
1943 .....	392,245,776	477,042,461	869,288,237	55
1944 .....	468,228,441	502,712,731	970,941,172	52

Table 20 - APPARENT CONSUMPTION IN CANADA OF GASOLINE, FUEL OIL, ENGINE DISTILLATE, KEROSENE AND LUBRICATING OIL, 1943 and 1944

	Fuel and gas oils (a) Imp.gal.	Gasoline Imp.gal.	Lubricating oils Imp.gal.	Kerosene Imp.gal.	Tractor and engine distillate Imp.gal.
<b>1943</b>					
Production .....	893,649,905	869,288,237	41,038,947	29,197,202	39,433,111
Plus imports entered for consumption .....	53,570,321	97,504,792	13,482,300	10,692,591	596,503
	947,220,226	966,793,029	54,521,247	39,889,793	40,029,614
Less exports and re-exports ..	54,687,171	21,494,799	2,204,620	1,004,659	...
	892,533,055	945,298,230	52,316,627	40,894,452	40,029,614
Plus decline in stocks (c) ...	...	...	1,479,018	...	2,217,713
	892,533,055	945,298,230	53,795,645	40,894,452	42,247,327
Less increase in stocks (c) ..	43,669,103	27,819,974	...	2,706,759	...
APPARENT CONSUMPTION ....	848,863,952	917,478,256	53,795,645	38,187,693	42,247,327
<b>1944</b>					
Production .....	901,145,537	970,941,172	46,568,169	28,177,113	42,125,832
Plus imports entered for consumption .....	63,323,016	91,400,575	13,692,987	8,890,511	474,253
	964,468,553	1,062,341,747	60,261,156	37,067,624	42,600,085
Less exports and re-exports ..	46,933,606	21,494,799	709,468	1,187,169	...
	917,534,947	1,040,846,948	59,551,688	35,880,455	42,600,085
Plus decline in stocks (c) ...	8,919,350	...	...	3,291,000	...
	926,454,297	1,040,846,948	59,551,688	39,171,455	42,600,085
Less increase in stocks (c) ..	...	64,433,000	2,363,289	...	2,679,502
APPARENT CONSUMPTION ....	926,454,297	976,413,948	57,188,399	39,171,455	39,920,583

(a) Import figures for fuel oil do not include amounts brought in "ex-warehoused for ships' stores". This item covers fuel oil imported in bond for use in fueling vessels at Canadian ports and, as there is no corresponding export item, such quantities have been omitted when compiling figures of apparent Canadian consumption. In 1942 the amount under this item was 20,716,795 gallons; in 1943 it was 27,816,694 gallons, and in 1944 it was 23,215,553 gallons.

(b) Exclusive of fuel oil for cracking operations but including fuel oil used by refineries for power or heating purposes.

(c) Allows for changes in stocks at points other than refineries. (Figures taken from "Petroleum Fuels in Canada" issued by the Bureau of Mines, Department of Mines and Resources, Ottawa.)

Table 21 - APPARENT CONSUMPTION OF FUEL OIL, GASOLINE, KEROSENE, ENGINE DISTILLATE, AND LUBRICATING OILS, 1932-1944

(Computed from Production, Imports, Exports and Refinery Stocks)

Year	Fuel and gas oils	Gasoline	Engine distillate	Kerosene	Lubricating oils
(Imperial gallons)					
1932 .....	460,366,156	505,231,853	Not	54,534,585	26,128,986
1933 .....	481,688,950	463,176,444	avail-	42,362,473	30,557,493
1934 .....	503,060,605	524,622,641	able	42,727,528	26,933,794
1935 .....	505,844,126	564,140,772	38,030,150	31,168,762	32,800,623
1936 .....	532,285,589	616,676,937	35,344,520	31,138,985	34,823,724
1937 .....	563,807,090	709,275,664	31,189,319	26,682,696	39,625,132
1938 .....	592,659,806	769,926,869	32,029,333	27,466,756	38,749,528
1939 .....	647,298,402	814,188,217	38,024,386	35,757,905	43,279,063
1940 .....	776,586,326	896,528,828	27,939,810	29,139,569	48,261,092
1941 .....	836,352,693	938,316,103	40,536,279	29,464,627	52,981,705
1942 .....	844,174,095	889,638,836	44,116,128	31,719,854	50,821,384
1943 .....	848,863,952	917,478,256	42,247,327	38,187,693	53,795,645
1944 .....	926,454,297	976,423,948	39,920,583	39,151,455	57,188,399

Table 22 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1941-1944 (Gross sales - sold for all purposes; net sales - sold for use in automobiles) - Computed from Gasoline Tax returns.

Province	1941	1942	1943	1944
	(1000's of Imperial gallons)			
Prince Edward Island .....	5,175	6,629	7,881	9,295
Nova Scotia .....	41,355	40,886	42,465	43,462
New Brunswick .....	26,289	25,499	27,256	28,077
Quebec .....	165,839	149,917	147,048	178,879
Ontario .....	410,712	343,811	309,489	315,976
Manitoba .....	54,213	58,568	63,376	70,399
Saskatchewan .....	112,779	101,808	104,175	119,840
Alberta .....	93,068	97,502	114,970	120,159
British Columbia .....	70,996	73,187	86,932	84,383
TOTAL GROSS SALES .....	980,426	897,807	903,592	970,470
REFUNDS .....	233,900	287,525	373,747	395,614
TOTAL NET SALES .....	746,526	610,282	529,845	574,856

Table 23 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1941-1944

Month	1941	1942	1943	1944
	(1000's of Imperial gallons)			
January .....	48,960	57,207	46,158	57,215
February .....	46,313	51,206	45,785	55,329
March .....	53,797	70,017	67,064	72,347
April .....	83,077	59,355	58,407	64,214
May .....	97,698	81,476	81,086	95,685
June .....	98,313	81,597	88,260	94,506
July .....	110,014	86,454	92,512	93,399
August .....	105,149	88,286	94,880	104,204
September .....	94,391	95,468	95,547	99,735
October .....	95,363	97,267	88,251	100,597
November .....	77,818	69,918	78,177	74,504
December .....	69,553	59,556	67,465	58,735
TOTAL .....	980,426	897,807	903,592	970,470

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1944 and TOTALS for 1943

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	(1000's of Imperial gallons)				
January .....	498	2,830	1,850	8,726	21,053
February .....	393	2,657	1,542	8,337	20,700
March .....	417	3,650	2,292	10,676	27,995
April .....	506	2,688	1,530	8,812	20,878
May .....	1,074	4,134	2,542	15,180	29,305
June .....	1,056	4,222	2,667	18,914	29,176
July .....	969	3,872	2,739	17,856	29,714
August .....	1,131	4,405	3,019	20,425	32,756
September .....	842	3,877	2,868	21,903	28,657
October .....	943	3,907	2,802	22,540	30,279
November .....	743	3,876	2,253	15,207	25,612
December .....	723	3,344	1,973	10,303	19,851
TOTALS FOR 1944 .....	9,295	43,462	28,077	178,879	315,976
TOTALS FOR 1943 .....	7,881	42,465	27,256	147,048	309,488

Table 25 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1944, and TOTALS FOR 1943  
(Concluded)

Month	Manitoba	Sasket- chewan	Alberta	British Columbia	TOTAL
(Thousands of Imperial Gallons)					
January .....	4,383	5,049	7,223	5,603	57,215
February .....	4,256	4,600	6,728	6,116	55,329
March .....	4,943	6,199	8,563	7,612	72,347
April .....	5,471	7,709	10,753	5,867	64,214
May .....	6,450	15,551	13,973	7,476	95,685
June .....	6,106	13,939	10,963	7,463	94,506
July .....	7,010	11,777	11,503	7,959	93,399
August .....	7,900	14,079	12,246	8,243	104,204
September .....	6,908	15,289	11,799	7,592	99,735
October .....	7,830	13,251	11,743	7,302	100,597
November .....	4,492	7,291	8,204	6,826	74,504
December .....	4,650	5,106	6,461	6,324	58,735
TOTALS FOR 1944 .....	70,399	119,840	120,159	84,383	970,470
TOTALS FOR 1943 .....	63,376	104,175	114,970	86,933	903,592

Table 26 - NET SALES (FOR USE IN AUTOMOBILES) OF GASOLINE IN CANADA, BY PROVINCES, 1941-1944

Province	1941	1942	1943	1944
(Thousands of Imperial gallons)				
Prince Edward Island .....	2,689	2,492	2,687	3,006
Nova Scotia .....	31,955	23,596	21,844	22,820
New Brunswick .....	20,479	15,990	15,872	17,716
Quebec .....	150,948	126,636	116,966	127,811
Ontario .....	346,516	273,341	213,186	228,469
Manitoba .....	39,764	34,551	32,492	38,009
Saskatchewan .....	48,778	44,503	40,767	46,924
Alberta .....	50,587	47,644	44,904	47,474
British Columbia .....	54,610	44,529	41,127	42,627
CANADA .....	746,526	610,282	529,845	574,856

Table 27 - REVENUES FROM GASOLINE TAXES, BY PROVINCES, 1941-1944

Province	1941	1942	1943(1)	1944(1)
\$				
Prince Edward Island .....	284,722	351,579	325,988	309,752
Nova Scotia .....	3,031,449	2,893,101	2,868,278	3,446,021
New Brunswick .....	2,052,234	2,081,277	2,101,073	2,122,312
Quebec .....	12,260,427	11,506,921	11,803,248	12,388,342
Ontario .....	27,641,457	26,608,291	26,608,291	26,608,291
Manitoba .....	2,736,158	2,678,149	2,678,149	2,678,149
Saskatchewan .....	3,340,357	3,397,280	3,397,279	3,397,280
Alberta .....	4,212,305	3,524,625	3,645,895	3,808,155
British Columbia .....	4,005,947	3,763,626	3,763,626	3,763,626
Yukon .....	14,300(x)	19,562	23,505	18,840
CANADA .....	59,579,356	56,824,411	57,215,332	58,540,768

(1) Includes Dominion Government subsidies in guarantee of revenues because of gasoline rationing.

(x) Levied for first time in 1941.

Table 28 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1931-1944

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
1931 ....	19,684,908	22,546,119	1938 ....	26,230,196	41,247,688
1932 ....	21,126,271	27,083,316	1939 ....	27,961,132	51,954,360
1933 ....	20,576,392	26,467,765	1940 ....	29,300,720	56,179,173
1934 ....	21,567,830	29,054,853	1941 ....	31,559,944	59,579,356
1935 ....	23,090,978	31,532,645	1942 ....	28,498,676	56,824,411
1936 ....	25,632,843	34,532,436	1943 ....	30,292,019(x)	57,215,332
1937 ....	25,993,905	38,373,947	1944 ....	30,584,711	58,540,768

(x) Revised.

Table 29 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1941-1944

Province	1941	1942	1943	1944
	(Number)			
Prince Edward Island .....	8,013	7,537	8,032	8,412
Nova Scotia .....	62,805	58,872	59,194	57,933
New Brunswick .....	41,441	37,758	40,205	39,570
Quebec .....	232,149	222,622	222,676	224,042
Ontario .....	739,194	715,380	691,615	675,057
Manitoba .....	96,573	93,147	93,494	93,297
Saskatchewan .....	131,403	130,040	133,839	140,992
Alberta .....	124,244	125,482	127,559	127,416
British Columbia .....	132,509	132,893	134,691	135,090
Yukon .....	427	422	540	758
<b>CANADA .....</b>	<b>1,568,758</b>	<b>1,524,153</b>	<b>1,511,845</b>	<b>1,502,567</b>

Table 30 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1944

Province	Passenger cars	Motor trucks	Motor buses	Motor cycles	Other motor vehicles	TOTAL
	(Number)					
Prince Edward Island ...	6,883	1,471	26	40	42	8,412
Nova Scotia .....	41,756	14,583	225	694	675	57,933
New Brunswick .....	29,177	9,103	233	306	751	39,570
Quebec .....	171,385	48,471	1,452	2,734	...	224,042
Ontario .....	568,223	99,190	1,743	5,901	...	675,057
Manitoba .....	70,643	21,660	105	738	151	93,297
Saskatchewan .....	98,412	41,512	276	777	15	140,992
Alberta .....	91,828	34,690	193	705	...	127,416
British Columbia .....	99,063	31,463	423	3,134	1,007	135,090
Yukon .....	238	468	...	16	36	758
<b>CANADA .....</b>	<b>1,177,558</b>	<b>302,611</b>	<b>4,676</b>	<b>15,045</b>	<b>2,677</b>	<b>1,502,567</b>



Table 31 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1940-1944  
 (As reported by distributors, and importers - Imperial Gallons - Calendar Years)  
 Note: Figures taken from "Petroleum Fuels in Canada" issued by the Bureau of Mines,  
 Department of Mines and Resources, Ottawa

Area	Domestic and Building Heating	Industrial (manufacturers') heating and for power	Tractor fuel oil, not lubricant	Railways, principally Locomotive fuel	Bunkering including distributors' tankers	TOTAL DELIVERIES	Inventory on December 31st at refinery warehouses and consumers' storage
(Thousands of Imperial gallons)							
<u>1 9 4 4</u>							
N.B. and P.E.I.	3,740	7,009	222	-57 (a)	13,345	24,260	2,714
Nova Scotia ....	7,243	21,914	160	444	138,815	168,576	20,733
Quebec .....	36,960	78,076	3,711	973	60,586	180,306	69,105
Ontario .....	35,104	137,023	12,280	738	14,025	199,170	115,204
Manitoba .....	999	4,147	15,692	1,556	207	22,601	3,127
Saskatchewan ...	2,214	16,205	16,000	5,815	3	40,237	17,042
Alta. and N.W.T.	291	8,765	11,185	40,816	245	61,302	12,245
B.C. and Yukon .	16,789	66,554	8,917	10,011	78,468	180,739	26,627
TOTAL, 1944 ..	103,340	339,693	68,167	60,296	305,695	877,191	266,797
TOTAL, 1943 ..	95,378	323,670	64,683	77,827	234,231	795,789	275,718
TOTAL, 1942 ..	124,033	341,489	55,182	73,877	239,109	833,690	231,800
TOTAL, 1941 ..	146,751	301,819	58,773	73,172	275,234	855,749	226,657
TOTAL, 1940 ..	150,073	241,294	30,605	55,268	248,567	725,807	215,488

Note: Fuel oil includes all oils heavier than 42° A.P.I. processed from petroleum. 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. Fuel oil used as a material in manufacturing or as fuel in refineries is omitted.

(a) Part of requirements taken from Nova Scotia supplies.

Table 32 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION AS FUEL, BY PROVINCES, 1940-1944

Province	For domestic heating, cooking and lighting purposes	For fuel in tractors	For other general usage	Total deliveries	Inventory December 31st
(Thousands of Imperial gallons)					
<u>1 9 4 4</u>					
New Brunswick and Prince Edward Island	1,534	...	28	1,562	237
Nova Scotia .....	901	...	- 9	892	1,072
Quebec .....	5,469	7	62	5,538	2,000
Ontario .....	6,491	522	141	7,154	6,148
Manitoba .....	1,656	458	86	2,200	498
Saskatchewan .....	2,349	465	282	3,096	1,360
Alberta and Northwest Territories ....	2,167	205	450	2,822	1,325
British Columbia and Yukon .....	1,412	...	49	1,461	874
TOTAL, 1944 .....	21,979	1,657	1,089	24,925	13,514
TOTAL, 1943 .....	22,542	263	1,814	24,619	16,805
TOTAL, 1942 .....	22,504	1,063	1,353	24,920	14,098
TOTAL, 1941 .....	22,890	830	823	24,543	12,476
TOTAL, 1940 .....	22,652	1,772	487	24,913	15,089

Table 33 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1943 and 1944

(Used as fuel only - not as manufacturing materials)

Note: Figures taken from "Petroleum Fuels in Canada" issued by the Department of Mines &amp; Resources, Ottawa

Fuel for domestic and industrial heating	1943	1944
	(tons)	
New Brunswick and Prince Edward Island .....	...	...
Nova Scotia .....	273	300
Quebec .....	182	669
Ontario .....	17,049	23,923
Manitoba .....	...	...
Saskatchewan .....	1,364	724
Alberta and Northwest Territories .....	...	...
British Columbia and Yukon .....	...	...
<b>TOTAL .....</b>	<b>18,868</b>	<b>25,616</b>

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) 1944

Sixteen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1944. Ten of these plants were located in Ontario, 3 in Quebec and 3 in British Columbia.

They gave work to a monthly average of 110 people who were paid \$196,875 as salaries or wages. Purchases of processing materials and containers cost \$871,293 and the selling value of products totalled \$1,422,084. Included in the year's output were lubricating oils at \$1,080,979, lubricating greases at \$187,240 and soaps or soap powders at \$40,449.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 47,769,440 gallons in 1944 against 41,038,947 gallons in 1943. Corresponding figures for lubricating greases totalled 21,106,113 pounds in 1944 and 22,515,107 pounds in 1943. By taking account of changes in producers' stocks and adding the imports to the Canadian production, the apparent consumption of lubricating oils in Canada during 1944 amounted to 58,607,335 gallons.

Table 34 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1930-1944

Year	No. of plants	Average 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
			\$	\$	\$	\$
1930 .....	13	104	186,773	8,861	492,550	977,494
1931 .....	12	64	104,677	7,481	264,319	570,219
1932 .....	7	58	82,870	7,003	207,916	337,433
1933 .....	10	77	100,715	7,000	270,791	464,544
1934 .....	9	81	104,427	6,837	309,522	551,836
1935 .....	13	85	106,549	7,625	453,898	774,444
1936 .....	13	84	116,807	5,313	336,737	629,382
1937 .....	13	90	120,260	5,127	407,908	752,060
1938 .....	12	89	122,294	4,284	425,959	881,736
1939 .....	11	91	153,917	5,129	543,394	1,084,279
1940 .....	11	96	192,241	5,309	557,632	1,200,303
1941 .....	14	89	140,464	5,005	723,923	1,245,623
1942 .....	18	85	146,052	6,722	747,220	1,087,687
1943 .....	17	90	152,841	6,402	667,859	1,140,133
1944 .....	16	110	196,875	5,076	871,293	1,422,084

Table 35 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1943 and 1944

Province	No. of plants	Average 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
			\$	\$	\$	\$
<u>1943</u>						
Ontario .....	10	54	85,556	2,447	569,588	932,622
Quebec .....	3	25	51,287	2,699	59,227	137,888
Saskatchewan ...	1)					
British Columbia	3)	11	15,998	1,256	39,044	69,623
CANADA ....	17	90	152,841	6,402	667,859	1,140,133
<u>1944</u>						
Ontario .....	10	76	127,317	1,931	772,408	1,178,853
Quebec .....	3	26	53,534	2,450	61,701	146,150
British Columbia	3	8	16,024	695	37,184	97,081
CANADA ....	16	110	196,875	5,076	871,293	1,422,084

Table 36 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1943 and 1944

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
<u>1943</u>								
Ontario .....	28	7	17	2	54	60,934	24,622	85,556
Other provinces .....	15	4	16	1	36	47,810	19,475	67,285
CANADA .....	43	11	33	3	90	108,744	44,097	152,841
<u>1944</u>								
Ontario .....	33	10	26	7	76	88,278	39,039	127,317
Other provinces .....	15	4	14	1	34	52,183	17,375	69,558
CANADA .....	48	14	40	8	110	140,461	56,414	196,875

Table 37 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1943 and 1944

Month	Ontario		Other Provinces		C A N A D A	
	1943	1944	1943	1944	1943	1944
January .....	16	28	15	14	31	42
February .....	16	31	17	14	33	45
March .....	18	30	16	14	34	44
April .....	19	29	15	13	34	42
May .....	19	29	16	14	35	43
June .....	17	34	17	14	34	48
July .....	23	37	19	17	42	54
August .....	22	34	18	15	40	49
September .....	21	31	16	15	37	46
October .....	21	30	16	15	37	45
November .....	20	32	15	14	36	46
December .....	18	31	13	11	31	42
AVERAGE .....	19	33	17	15	36	48

Table 38 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1943 and 1944

Kind	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works	Quantity	Cost at works
Coal, anthracite .....	ton	34	488	18	275
Coal, bituminous - Canadian ....	ton	13	146	...	...
Imported .....	ton	110	1,275	131	1,482
Coke .....	ton	3	42	10	142
Gasoline (includes gasoline used in cars and trucks) .....	Imp.gal.	3,758	1,098	262	92
Kerosene or coal oil .....	Imp.gal.	40	8	...	...
Fuel oil .....	Imp.gal.	1,800	200	2,378	838
Wood .....	cord	64	769	51	624
Manufactured gas .....	M cu.ft.	640	665	88	86
Electricity purchased .....	K. W. H.	79,661	1,711	79,820	1,537
<b>TOTAL .....</b>	...	...	6,402	...	5,076

Table 39 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1943 and 1944

	1 9 4 3		1 9 4 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Gasoline, Gas and oil engines .....	...	...	1	25
Steam engines and turbines .....	2	8	2	8
Electric motors run by purchased power ...	37	66	23	48
<b>TOTAL .....</b>	39	74	26	81
Stationary boilers .....	3	36	1	8

Table 40 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1943 and 1944

Material	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works	Quantity	Cost at works
Compounding stocks (oils, etc.)	Imp.gal.	1,145,932	430,455	1,431,261	511,831
Tallow and grease .....	lb.	170,837	19,040	174,151	20,875
All other materials .....	...	...	108,189	...	140,361
Shipping containers .....	...	...	110,175	...	198,226
<b>TOTAL .....</b>	...	...	667,859	...	871,293

Table 41 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1943 and 1944

Product	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
Greases, lubricating ...	pound	1,103,187	172,642	1,252,890	187,240
Oils, lubricating .....	gallon	1,295,122	860,879	1,201,271	1,080,979
Soaps and powders .....	...	...	34,368	...	40,449
All other products .....	...	...	72,244	...	113,416
<b>TOTAL .....</b>	...	...	1,140,133	...	1,422,084

Table 42 - SALES OF LUBRICATING OILS IN CANADA, 1943 and 1944 (As reported by principal dealers)

	Motor transport and tractor crankcase oil	Aircraft crankcase oils	Other oils (industrial, etc.)	TOTAL ALL PURPOSES
	(Imperial Gallons)			
<u>1943</u>				
Prince Edward Island .....				
Nova Scotia .....	1,768,539	573,372	1,942,554	4,284,465
New Brunswick .....				
Quebec .....	3,579,834	454,476	4,612,825	8,647,135
Ontario .....	7,892,369	989,446	11,885,336	20,767,151
Manitoba .....	1,604,426	605,425	965,918	3,175,769
Saskatchewan .....	3,054,960	586,405	405,993	4,047,358
Alberta .....	2,900,600	709,041	901,770	4,511,411
British Columbia (including Yukon)	2,837,455	287,479	2,074,057	5,198,991
TOTAL - CANADA ....	23,638,183	4,205,635	22,788,453	50,632,280
<u>1944</u>				
Prince Edward Island .....				
Nova Scotia .....	2,023,369	391,255	2,252,556	4,667,180
New Brunswick .....				
Quebec .....	4,438,592	400,854	4,363,994	9,203,440
Ontario .....	9,266,152	970,303	11,496,037	21,732,492
Manitoba .....	1,950,169	622,058	580,601	3,152,828
Saskatchewan .....	4,059,680	327,919	309,358	4,696,957
Alberta .....	3,268,871	532,845	656,535	4,458,251
British Columbia (including Yukon)	1,972,419	246,211	1,813,284	4,031,914
TOTAL - CANADA ....	26,979,252	3,491,445	21,472,365	51,943,062

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1944

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	Type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
<u>Nova Scotia -</u>					
Imperial Oil Limited	Imperoyal	34,000	S - C	Combination unit	11,600
<u>New Brunswick -</u>					
New Brunswick Gas & Oilfields Ltd.	Weldon	250	S	...	...
<u>Quebec -</u>					
British American Oil Co. Limited	Montreal East	17,000	S - C	Liquid and vapour phase	7,500
Imperial Oil Limited	Montreal	25,000	S - C	Tube and tank	9,800
McColl-Frontenac Oil Co. Limited	Montreal East	20,000	S - C	2 Jenkins, 1 Kellogg and 1 own make	12,500
Shell Oil Company of Canada Ltd.	Montreal East	10,000	S - C	Dubbs Selective	7,500
<u>Ontario -</u>					
British American Oil Co. Limited	Toronto	6,000	S - C	Liquid and vapour phase	3,000
Canadian Oil Companies Limited	Petrolia	3,500	S - C	Dubbs	1,500
Good Rich Refining Co. Ltd.	Port Credit	4,000	S - C	Dubbs	1,300
Imperial Oil Limited	Sarnia	41,500	S - C	Tube and tank	20,000
McColl-Frontenac Oil Co. Limited	Toronto	13,000	S - C	Combination unit and Jenkins Stills	13,000
British American Oil Co. Limited	Clarkson	8,250	S	...	...
<u>Manitoba -</u>					
Anglo-Canadian Oils Ltd.	Brandon	1,400	S - C	Dubbs	500
North Star Oil Limited	St. Boniface	2,000	S - C	Dubbs	500
Radio Oil Refineries Ltd.	East Kildonan	500	S	...	...

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1944 (Concluded)

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	Type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
<u>Saskatchewan -</u>					
British American Oil Co. Limited	Moose Jaw	4,000	S - C	Liquid and vapour phase	2,000
Consumers' Co-Operative Refineries Ltd.	Regina	1,500	S - C	Dubbs	500
Hi-Way Refineries Limited	Moose Jaw	300	S	...	...
Hi-Way Refineries Limited	Saskatoon	300	S	...	...
Hi-Way Refineries Limited	Rosetown	275	S	...	...
Imperial Oil Limited	Regina	10,500	S - C	Tube and tank	6,500
Northern Petroleum Corporation, Ltd.	Kamsack	200	S	...	...
<u>Alberta -</u>					
British American Oil Co. Limited	Calgary	4,500	S - C	Liquid and vapour phase	2,250
Gas and Oil Refineries Limited	Hartell	3,000	S - C	Dubbs	1,000
Gold Standard Oils Ltd.	Wainwright	300	S	...	...
Imperial Oil Limited	Calgary	8,300	S - C	Combination unit	4,000
Pacific Oil & Refinery of Alberta Ltd.	Lethbridge	2,000	S	...	...
Abasand Oils Limited	Fort McMurray	1,200	S - C	Dubbs	600
<u>British Columbia -</u>					
Imperial Oil Limited	Ioco	16,000	S - C	Tube and tank	2,600
Shell Oil Company of British Columbia Ltd.	Vancouver	4,000	S	...	...
Standard Oil Company of British Columbia Ltd.	Burnaby	4,500	S	...	...
<u>Northwest Territories -</u>					
Imperial Oil Limited	Norman Wells	840	S	...	...

S - Skimming

C - Cracking

DIRECTORY OF PLANTS ENGAGED IN THE COMPOUNDING OF LUBRICATING OILS AND GREASES IN CANADA, 1944

Name of Company	Location of Plant
<u>Quebec -</u>	
Chapman, L. L. and W. H. Economic Products Ltd.	Champlain St., Gatineau Point
Union Products	6508 Durocher Ave., Outremont 1150 Conway St., Montreal
<u>Ontario -</u>	
Campbell Grease Company	414 Eastern Ave., Toronto
Casite Products Company	Colebrook
Hollingshead, R. M., Co. of Canada, Ltd.	Bowmanville
The Kearns Co. of Canada	226 Weston Road, Toronto
Kendall Refining Company of Canada, Ltd.	35 Fraser Ave., Toronto
Ontario Lubricating Company Limited	120 Chatham St., Hamilton
Ontario Gasoline & Oil Limited	45 Dickens Ave., Toronto
Tide Water Oil Company of Canada, Ltd.	201 Weston Road South, Toronto
Waddell, R.	John and Haymarket Sts., Hamilton
Ensign Products Co.	27 Carleton St., St. Catharines
<u>British Columbia -</u>	
Canada Grease Works Ltd.	280 East 6th Avenue, Vancouver
Renton Distributors Ltd.	1927 Granville St., Vancouver
H. J. Halvorsen (Bar-Dol Products)	5405 W. Boulevard, Vancouver



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