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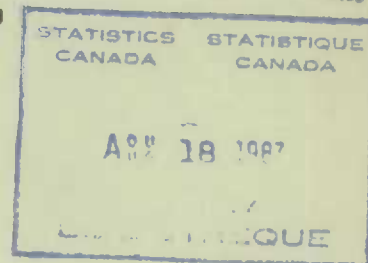
CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH



THE PETROLEUM PRODUCTS INDUSTRY

IN

CANADA

1943



**OTTAWA
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INDUSTRY DIVISION

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Dominion Statistician:
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ANNUAL INDUSTRY REPORTMANUFACTURES OF THE NON-METALLIC MINERALS GROUPPETROLEUM PRODUCTS INDUSTRY, 1943

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-five refineries and 17 blending plants, or a total of 52 works, reported under this category in 1943 and the aggregate value of production was \$187,106,054, an increase of 14 per cent over the 1942 total of \$163,716,515.

Output figures for 1943 included \$185,830,862 for petroleum refineries and \$1,140,133 for concerns engaged in blending oils and greases, against corresponding totals in 1942 of \$162,628,828 and \$1,087,687, 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, 1937-1943

Year	Number of plants	Capital employed	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>							
1937	44	63,759,579	5,047	8,126,583	4,444,878	79,993,972	97,701,954
1938	47	62,097,038	4,586	7,750,746	4,678,933	75,993,557	96,121,611
1939	42	65,784,933	4,675	7,736,330	4,573,570	73,922,207	103,494,238
1940	38	75,983,928	5,060	8,616,296	5,746,186	94,302,869	121,012,497
1941	35	81,910,037	5,317	10,186,382	7,263,685	125,258,314	155,389,872
1942	35	83,556,904	5,835	11,361,200	7,072,252	121,177,036	162,628,828
1943	35	89,643,702	5,995	12,595,891	8,234,286	137,492,025	185,830,862
<u>Compounding Oils and Greases</u>							
1937	13	520,687	90	120,260	5,127	407,908	752,060
1938	12	523,870	89	122,294	4,284	425,959	881,736
1939	11	596,256	91	153,917	5,129	543,394	1,084,279
1940	11	597,815	96	192,214	5,309	557,632	1,200,303
1941	14	565,471	89	140,464	5,005	723,923	1,245,623
1942	18	605,344	85	146,052	6,722	747,220	1,087,687
1943	17	552,957	90	152,841	6,402	667,859	1,140,133
<u>TOTAL</u>							
1937	57	64,280,266	5,137	8,246,843	4,450,005	80,401,880	98,454,014
1938	59	62,620,908	4,675	7,873,040	4,683,217	76,419,516	97,003,347
1939	53	66,381,189	4,766	7,890,247	4,578,699	74,465,600	104,578,517
1940	49	76,581,743	5,156	8,808,537	5,751,495	94,860,521	122,212,800
1941	49	82,475,508	5,406	10,326,846	7,268,690	125,982,237	156,635,495
1942	53	84,162,248	5,920	11,507,252	7,078,974	121,924,256	163,716,515
1943	52	90,196,659	6,095	12,748,732	8,240,688	138,159,884	187,106,054

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, 1942 and 1943

Province	Number of plants	Capital employed \$	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>1942</u>							
Quebec	7	23,802,525	1,048	2,152,561	1,755,815	26,276,718	32,535,812
Ontario	16	27,624,716	2,586	5,060,737	3,282,726	47,133,784	66,399,164
Manitoba	4	2,202,826	193	270,491	83,559	2,350,438	3,267,112
Saskatchewan	9	7,108,236	539	968,046	586,219	11,852,743	17,195,774
Alberta	8	8,732,477	614	1,096,303	404,483	10,291,247	18,060,711
British Columbia	6	5,092,010	370	776,512	368,817	11,418,189	13,091,261
Nova Scotia	1)						
New Brunswick	1)	9,599,458	570	1,182,602	597,355	12,601,137	13,166,681
Northwest Territories	1)						
CANADA	53	84,162,248	5,920	11,507,252	7,078,974	121,924,256	163,716,515
<u>1943</u>							
Quebec	7	21,837,603	1,020	2,189,093	2,072,300	35,296,425	45,493,574
Ontario	16	38,021,549	2,773	5,913,719	3,582,543	49,050,861	69,227,431
Manitoba	4	2,520,901	191	292,979	104,128	2,655,016	3,376,004
Saskatchewan	9	7,434,207	604	1,181,478	803,802	11,892,749	18,032,525
Alberta	7	7,769,463	547	1,078,186	501,837	11,718,323	18,511,038
British Columbia	6	5,306,062	381	808,160	411,905	12,354,907	14,807,862
Nova Scotia	1)						
New Brunswick	1)	7,506,874	569	1,285,117	764,173	15,191,603	17,657,620
Northwest Territories	1)						
CANADA	52	90,196,659	6,085	12,748,732	8,240,688	138,159,884	187,106,054

(a) THE PETROLEUM REFINING INDUSTRY, 1943

Thirty-five petroleum refineries operating in Canada during 1943 were distributed by provinces as follows: 8 in Saskatchewan, 7 in Alberta, 6 in Ontario, 4 in Quebec, 4 in Manitoba, 3 in British Columbia and 1 in each of Nova Scotia, New Brunswick and Northwest Territories. Compared with 1942, there was a decrease of 1 refinery in Alberta and an increase of 1 in Ontario. The operating refineries had a capacity of 242,215 barrels of crude oil per day, of which Ontario had 76,250 barrels or 31 per cent; Quebec 67,000 barrels or 28 per cent; Nova Scotia 34,000 barrels or 14 per cent; British Columbia 24,500 barrels or 10 per cent; Saskatchewan 16,825 barrels or 7 per cent; Alberta 18,400 barrels or 8 per cent; Manitoba 3,650 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, 1,746,982,235 gallons of imported crude oil and 337,070,674 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 2,084,052,909 gallons was put through Canadian refineries, this amounting to about 66 per cent of the rated capacity. Of the total crude input, about 69 per cent was imported from the United States and nearly 15 per cent from other countries, while about 16 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 \$127,907,890. Stocks of crude oil held at the refineries on December 31 amounted to 175,148,256 gallons.

Refinery production of gasoline in 1943 amounted to 869,288,237 gallons, and in addition the refineries used for blending about 21,647,290 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1943 was 16 per cent over 1942, which, in turn, was 12 per cent under 1941. The refinery selling value of the gasoline made during the year was \$110,043,999. Stocks of gasoline held by the refineries on December 31 included 81,654,646 gallons of straight run or cracked gasoline and 1,056,670 gallons of imported casinghead gasoline. In 1943 there was an output of 16,319,590 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 97,504,792 gallons during 1943, which, added to the production of 869,288,237 gallons less the increase in producers', distributors', and

consumers' stocks of 27,819,974 gallons and less the exports of 21,494,799 gallons, made an apparent Canadian consumption of 917,478,256 gallons. Actual sales as reported to the Bureau on a monthly basis, amounted to 903,592,163 gallons.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 893,649,905 gallons, of which 809,950,476 gallons were made for sale and 83,699,429 gallons for use as fuel in the producing plant. Imports amounted to 53,570,321 gallons and exports to 54,687,171 gallons. Stocks of fuel oil and distillate at the end of the year stood at 275,469,561 gallons, or about 43,669,103 gallons more than in 1942. Output of tractor and engine distillate was 39,433,111 gallons in 1943, imports amounted to 596,503 gallons, and producers' stocks declined 2,217,713 gallons. The apparent consumption of fuel oils and distillate in Canada, as calculated from the above figures, amounted to 891,111,279 gallons.

Capital employed in the petroleum refining industry in 1943 was reported at \$89,645,702, of which \$45,145,830 was the value placed on land, buildings, machinery and equipment; \$41,329,983 represented inventories of finished products and processing materials, and \$5,167,889 were for operating capital, such as cash, bills and accounts receivable. The monthly employment averaged 5,995 persons who received \$12,595,891 in salaries and wages. Expenditures for fuel and electricity amounted to \$8,234,286 and \$137,492,025 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1940-1943

Province	1 9 4 0		1 9 4 1		1 9 4 2		1 9 4 3	
	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	32,500	1	34,000	1	34,000	1	34,000
New Brunswick	1	250	1	250	1	250	1	250
Quebec	4	64,500	4	67,000	4	67,000	4	67,000
Ontario	5	57,500	5	68,000	5	68,000	6	76,250
Manitoba	4	4,150	4	4,150	4	3,650	4	4,150
Saskatchewan	10	16,220	9	17,500	8	16,775	8	16,825
Alberta	9	16,850	7	16,250	8	18,100	7	18,400
British Columbia	3	24,500	3	24,500	3	24,500	3	24,500
Northwest Territories	1	800	1	840	1	840	1	840
CANADA	38	217,270	35	232,290	35	233,115	35	242,215

NOTE: 1 barrel = 35 Imp.gal.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1922-1943

Year	Number of refineries	Capital employed	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
		\$		\$	\$	\$	\$
1922	13	61,255,400	3,498	5,391,285	4,227,615	38,129,880	56,495,821
1923	14	60,288,861	4,195	5,531,569	4,054,846	36,435,306	45,571,506
1924	17	53,095,784	3,603	5,623,978	3,580,032	36,669,292	48,677,347
1925	13	49,461,900	3,655	5,621,898	3,433,017	37,814,303	49,802,615
1926	17	56,476,449	3,698	5,782,589	3,580,049	50,783,871	70,570,240
1927	16	55,442,193	3,802	6,078,226	3,628,842	52,743,550	63,979,849
1928	16	55,811,418	4,252	6,803,234	3,440,578	57,033,185	82,448,392
1929	15	69,887,267	4,883	7,984,786	3,745,956	76,289,182	98,384,180
1930	15	69,077,982	5,030	8,003,357	3,859,683	71,307,879	90,809,711
1931	20	67,288,556	4,058	6,110,068	3,371,118	50,353,423	75,588,425
1932	24	68,882,376	4,058	5,897,811	3,338,648	52,029,471	71,360,324
1933	37	67,566,886	4,551	6,041,230	3,130,719	48,916,966	69,803,721
1934	42	66,450,496	4,876	6,274,799	3,117,697	56,659,492	75,785,677
1935	45	64,012,045	4,771	7,046,675	3,839,424	53,415,916	79,176,081
1936	50	61,307,820	4,935	7,193,148	3,927,321	66,219,148	85,172,981
1937	44	63,759,579	5,047	8,126,583	4,444,878	79,993,972	97,701,954
1938	47	62,097,038	4,586	7,750,746	4,678,933	75,993,557	96,121,611
1939	42	65,784,933	4,675	7,736,330	4,573,570	75,922,207	103,494,238
1940	38	75,983,928	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941	35	81,910,037	5,317	10,186,382	7,263,685	125,258,314	155,389,872
1942	35	83,556,904	5,855	11,361,200	7,072,252	121,177,056	162,628,828
1943	35	89,645,702	5,995	12,595,891	8,234,286	137,492,025	185,965,921

Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, BY PROVINCES, 1942 and 1943

Province	Number of refineries	Capital employed	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
		\$		\$	\$	\$	\$
1942							
Quebec	4	23,687,976	1,022	2,102,330	1,752,779	26,209,442	32,385,988
Ontario	5	27,228,930	2,536	4,977,800	3,280,297	46,478,815	65,512,068
Manitoba	4	2,202,826	193	270,491	83,559	2,350,438	3,267,112
Saskatchewan	8	7,030,689	537	965,472	585,794	11,852,663	17,190,774
Alberta	8	8,732,477	614	1,096,303	404,483	10,291,247	18,060,711
British Columbia ..	3	5,074,548	363	766,202	367,985	11,393,294	13,045,494
Other provinces (x)	3	9,599,458	570	1,182,602	6,805,009	12,601,137	13,166,681
CANADA	35	83,556,904	5,835	11,361,200	7,072,252	121,177,036	162,628,828
1943							
Quebec	4	21,738,036	995	2,137,806	2,069,601	35,237,198	45,355,686
Ontario	6	37,594,239	2,719	5,828,163	3,580,096	48,481,273	68,294,809
Manitoba	4	2,320,901	191	292,979	104,128	2,655,016	3,376,004
Saskatchewan	8	7,431,680	602	1,178,788	803,242	11,891,749	18,028,425
Alberta	7	7,769,463	547	1,078,186	501,837	11,718,323	18,511,038
British Columbia ..	3	5,282,509	372	794,852	411,209	12,316,883	14,742,339
Other provinces (x)	3	7,506,874	569	1,285,117	764,173	15,191,603	17,657,620
CANADA	35	89,643,702	5,995	12,595,891	8,234,286	137,492,025	185,965,921

(x) Includes 1 refinery in each of Nova Scotia, New Brunswick and the Northwest Territories.

Table 6 - CAPITAL EMPLOYED IN THE PETROLEUM REFINING INDUSTRY, 1942 and 1943 (On the last day of the year)

Province	Present value of land, buildings, machinery and equipment	Value of Inventories		Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
1942					
Quebec	10,853,327	5,533,776	7,116,184	184,689	23,687,976
Ontario	13,814,373	6,748,298	5,413,409	1,252,850	27,228,930
Manitoba	1,332,226	299,795	297,584	273,223	2,202,826
Saskatchewan	4,012,357	852,578	1,521,240	644,514	7,030,689
Alberta	5,526,849	1,048,386	1,698,286	458,956	8,732,477
British Columbia ..	1,380,848	970,911	2,449,042	273,747	5,074,548
Other provinces ...	2,254,396	2,572,308	3,553,670	1,219,034	9,599,458
CANADA	39,174,376	18,026,100	22,049,415	4,307,013	83,556,904
1943					
Quebec	10,117,289	5,224,493	6,188,738	207,516	21,738,036
Ontario	19,792,042	7,995,222	7,790,161	2,016,814	37,594,239
Manitoba	1,360,693	330,985	303,430	325,793	2,320,901
Saskatchewan	4,006,847	839,397	1,911,865	673,571	7,431,680
Alberta	4,518,048	1,307,248	1,462,287	481,880	7,769,463
British Columbia ..	1,433,393	1,275,812	2,109,811	463,493	5,282,509
Other provinces ...	1,917,518	1,535,228	3,055,306	998,822	7,506,874
CANADA	43,145,850	18,508,385	22,821,598	5,167,889	89,643,702

Table 7 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1942 and 1943

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1942</u>								
Quebec	190	29	800	3	1,022	590,404	1,511,926	2,102,330
Ontario	381	137	2,006	12	2,536	1,266,148	3,711,652	4,977,800
Manitoba	43	12	138	...	193	100,446	170,045	270,491
Saskatchewan ...	100	33	399	5	537	315,950	649,522	965,472
Alberta	144	30	437	3	614	381,243	715,060	1,096,303
British Columbia	58	16	286	3	363	211,171	555,031	766,202
Other provinces.	60	52	475	3	570	264,448	918,154	1,182,602
CANADA	976	289	4,541	29	5,855	3,129,810	8,231,390	11,361,200
<u>1943</u>								
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
CANADA	963	331	4,581	120	5,995	3,416,057	9,179,834	12,595,891

Table 8 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1943 (On the last work-day of each month)

Month	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other provinces	CANADA
January	755	2,134	123	398	383	279	465	4,517
February	743	2,146	126	394	397	275	453	4,534
March	754	2,074	135	385	401	281	469	4,499
April	761	2,157	140	438	430	283	472	4,681
May	758	2,185	139	466	462	300	474	4,784
June	756	2,180	138	496	477	310	491	4,848
July	782	2,197	146	496	498	312	505	4,936
August	784	2,139	142	502	484	308	489	4,848
September	788	2,008	137	496	461	299	475	4,664
October	799	1,980	139	475	429	296	474	4,592
November	824	2,117	133	450	438	304	475	4,741
December	825	2,137	130	440	442	298	467	4,739
AVERAGE ...	776	2,122	136	453	443	295	476	4,701

Table 9 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1942 and 1943 (In one week of month of highest employment; overtime included)

Regular Hours Worked per Week	Number of Wage-Earners					
	1942			1943		
	Male	Female	TOTAL	Male	Female	TOTAL
30 hours or less	67	1	68	86	19	105
31-43 hours	2,284	29	2,313	668	8	676
44 hours	1,386	8	1,394	2,469	74	2,543
45-47 hours	53	...	53	90	5	95
48 hours	772	4	776	1,303	29	1,332
49-50 hours	92	...	92	76	...	76
51-54 hours	185	...	185	192	...	192
55 hours	37	...	37	6	...	6
56-64 hours	215	2	217	296	2	298
65 hours and over	118	...	118	50	...	50
TOTAL	5,209	44	5,253	5,236	135	5,371
Total wages paid in week	\$ 179,998	930	179,928	195,729	2,680	198,409

Table 10 - FUEL(x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1942 and 1945

Kind	Unit of measure	1 9 4 2		1 9 4 5	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal--Canadian	ton	...	...	...	...
Imported	ton	42,689	281,855	55,640	350,673
Coke, including petroleum coke	ton	9,004	62,874	7,141	45,894
Gasoline	Imp.gal.	578,991	81,959	408,112	95,998
Kerosene	Imp.gal.	54,698	5,641	175,349	17,824
Fuel oil	Imp.gal.	66,047,260	5,088,990	85,571,909	5,897,181
Wood	cord	589	2,170	277	1,129
Gas--Manufactured, including still gas	M cu.ft.	7,875,405	2,650,805	8,585,106	2,774,211
Natural	M cu.ft.	3,962,713	82,621	2,083,391	168,560
Other fuel .....	...	...	256,214	...	269,866
Electricity purchased	K. W. H.	80,958,257	601,125	87,904,868	655,150
TOTAL .....	...	...	7,072,252	...	8,254,286
Electricity generated for own use	K. W. H.	124,642	...	371,429	...

(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 11 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1942 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1 9 4 2				
Steam engines and steam turbines	465	20,865	32	900
Diesel engines	8	1,105	...	...
Gasoline, gas and oil engines (except diesel)	67	2,142	2	75
Total Primary Equipment	540	24,112	34	975
Electric motors run by purchased power	1,691	52,083	63	1,407
TOTAL	2,231	56,195	97	2,382
Electric motors run by power generated by primary equipment above	65	296	...	...
Stationary boilers	150	52,937	4	294
Motor-generator sets	16	856	...	...
1 9 4 5				
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
Total Primary Equipment	623	52,328	72	3,246
Electric motors run by purchased power	2,291	56,790	93	2,855
TOTAL	2,539	67,567	144	4,197
Electric motors run by power generated by primary equipment above	59	191	...	...
Stationary boilers	156	57,778	7	2,277
Motor-generator sets	19	984	...	...

Table 12 - MATERIALS USED IN PETROLEUM REFINERIES, 1942 and 1943

Material	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells	Imp.gal.	349,255,157	19,047,524	322,873,457	17,371,041
Absorption gasoline, etc., from Canadian wells (run to stills) ...	Imp.gal.	10,280,581	726,600	14,197,217	891,721
Crude oil, in its natural state, imported, (run to stills) -					
(a) From United States	Imp.gal.	1,146,769,895	69,828,576	1,443,428,128	91,367,996
(b) From Other Countries	Imp.gal.	396,913,456	21,572,639	303,062,252	18,205,645
Crude oil, not in its natural state (run to stills)	Imp.gal.	7,933,800	1,278,635	491,855	73,487
Benzol for blending	Imp.gal.	3,954,267	531,217	2,674,901	382,248
Phenol	pound	651,331	93,547	557,559	82,103
Sulphuric acid, 66° Be	pound	34,741,455	396,297	40,683,213	462,617
Sulphur	pound	63,375	1,561	94,432	2,360
Caustic soda	pound	5,786,123	171,668	6,218,934	178,163
Soda ash	pound	327,366	7,550	398,557	2,377
Litharge	pound	195,309	17,245	305,045	23,582
Fuller's earth and clay	pound	24,162,091	528,350	25,390,653	601,283
Compounding materials .....	...	...	227,931	...	287,571
Tetraethyl fluid	c.c.	1,538,594,864	3,523,276	1,752,403,904	4,024,703
Blending stocks for aviation gasoline	Imp.gal.	...	1,758,052	7,925,244	2,061,939
Other materials .....	...	...	677,034	...	800,930
Shipping containers .....	...	...	789,534	...	667,259
TOTAL .....	...	...	121,177,056	...	157,492,025

Table 13 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1943

Material	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Other Provinces
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells.	gal.	...	4,196,249	15,306,511	118,568,352	182,369,316	...
	\$	...	295,948	1,214,947	6,746,241	9,000,436	...
Absorption gasoline, etc. from Canadian wells (run to stills)	gal.	...	...	...	578,892	13,618,325	...
	\$	...	...	...	66,131	825,590	...
Crude oil, in its natural state, imported (run to stills) -							
(a) From United States ...	gal.	299,675,960	722,694,659	14,789,296	58,796,700	...	219,691,994
	\$	21,920,285	43,949,034	1,350,257	4,601,836	...	11,696,830
(b) From Other Countries.	gal.	174,442,472	...	...	...	...	128,619,780
	\$	11,413,120	...	...	...	...	6,790,525
Crude oil, not in its natural state, imported	gal.	412,860	...	...	...	78,995	...
	\$	68,726	...	...	...	4,761	...
Benzol for blending	gal.	806,572	1,814,630	...	53,699	...	...
	\$	112,253	256,468	...	15,527	...	...

Table 13 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1943 (Concluded)

Material	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Other Provinces
Sulphuric acid							
66° Bé Pound	1,763,052	28,624,067	161,331	1,001,198	7,234,262	1,899,323	...
\$	18,246	325,484	4,197	16,392	79,305	18,993	...
Sulphur Pound	14,802	51,352	408	5,890	42,000	...	...
\$	431	883	14	192	840	...	...
Caustic soda ... Pound	1,414,730	1,598,621	274,796	615,893	1,234,880	411,926	668,088
\$	34,832	56,228	10,170	20,267	44,255	13,069	19,342
Soda ash Pound	57,109	26,250	12,575	231,103	61,920	9,600	...
\$	1,194	391	561	5,132	1,874	225	...
Litharge Pound	50,375	96,273	2,301	8,675	166,537	401	483
\$	2,468	8,226	297	911	11,600	35	45
Fullers' earth and clay Pound	562,610	23,186,823	...	94,060	130,500	...	1,616,660
\$	5,081	564,380	...	1,829	3,054	...	26,959
Compounding materials ..... \$	...	287,571	...	...	...	...	...
Tetraethyl fluid \$	1,073,347	1,455,455	63,280	295,830	575,415	223,235	338,141
Other materials. \$	572,539	673,952	11,293	123,461	1,175,972	344,072	43,683
Shipping contain- ers \$	14,676	627,253	...	...	...	15,643	9,687
TOTAL \$	35,287,198	48,481,273	2,655,016	11,891,749	11,718,323	12,316,863	15,191,603

\$ - Cost at works.

Table 14 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1931-1943

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	40,785,475	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	1,443,258,451	1,745,494,281
1941	352,839,574	1,681,058,493	2,033,898,067
1942	359,555,738	1,551,617,151	1,911,152,889
1943	337,070,674	1,746,982,235	2,084,052,909

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

(b) Includes reduced crude.

Table 15 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1943 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp.gal.	23,861,238
	\$	2,068,041
Imported natural casinghead gasoline used for blending during the year	Imp.gal.	21,647,290
Total stocks of imported natural casinghead gasoline at the end of the year..	Imp.gal.	1,036,670

Table 16 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1942 and 1943

Product	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
		\$		\$	
Made for sale -					
Gasoline(1) Straight run—Aviation..	Imp.gal.	90,510,113	18,074,919	118,866,138	23,250,266
Standard..	Imp.gal.	288,678,830	31,961,334	273,228,417	31,567,666
By cracking(2) Aviation..	Imp.gal.	305,165	48,582	1,641,220	290,331
Standard..	Imp.gal.	369,680,137	41,849,140	475,323,338	54,884,836
Stove oil (40°-42.5° A.P.I.)	Imp.gal.	24,515,578	1,652,595	27,628,033	1,689,781
Gas and light fuel oil (20°-40° A.P.I., except diesel)	Imp.gal.	141,126,499	8,616,052	131,731,939	7,986,051
Diesel fuel oil (all fuel oil sold under this name)	Imp.gal.	79,247,928	4,644,937	113,610,054	6,425,857
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	548,836,428	24,978,037	536,980,450	25,754,878
Tractor and engine distillate	Imp.gal.	44,636,725	4,534,787	39,433,111	3,926,571
V.M. and P. or solvent naphtha ...	Imp.gal.	20,907,259	2,355,333	24,842,055	2,870,943
Kerosene	Imp.gal.	24,912,066	2,766,291	29,014,580	3,091,665
Lubricating oil	Imp.gal.	38,076,120	7,405,169	39,651,627	8,671,595
Lubricating grease	pound	20,874,531	1,171,490	21,411,920	1,216,548
Asphalt	Imp.gal.	55,008,547	4,709,563	45,879,562	3,792,572
Petroleum coke	ton	64,461	464,326	78,166	567,482
Other products (3) .....	...	...	1,232,878	...	2,606,815
TOTAL - MADE FOR SALE .....	...	...	156,465,433	...	178,593,857
Made for own use -					
Gasoline—Straight run	Imp.gal.	182,635	22,937	151,221	41,780
By cracking process	Imp.gal.	7,870	1,121	77,903	9,120
Stove oil	Imp.gal.	890	39	1,017	52
Gas and light fuel oil (20°-40° A.P.I.)	Imp.gal.	69,101	4,232	47,781	3,111
Diesel fuel oil	Imp.gal.	72,646	4,302	107,178	6,103
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	65,932,327	3,068,787	83,543,453	3,996,747
Tractor and engine distillate	Imp.gal.	39,354	3,254	...	...
Kerosene	Imp.gal.	45,730	4,814	182,622	18,510
Lubricating oil	Imp.gal.	61,516	12,755	92,198	20,182
Asphalt	Imp.gal.	57,236	5,324	27,997	2,137
Petroleum coke	ton	8,950	63,411	7,146	49,355
Still gas	M cu.ft.	7,621,105	2,734,711	8,385,106	2,953,760
Other products .....	...	...	237,708	...	271,207
TOTAL - MADE FOR OWN USE .....	...	...	6,163,395	...	7,372,064
GRAND TOTAL .....	...	...	162,628,828	...	185,965,921
Fuel and gas oils and topped crude, for use in cracking process	Imp.gal.	522,046,536	...	640,764,520	...

(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 17 - PRODUCTS MADE IN PETROLEUM REFINERIES, BY PROVINCES, 1943

Product	Unit of measur	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Other Provinces
Made for sale -								
Gasoline	Imp.gal.	204,783,886	309,584,651	14,007,160	98,506,410	122,255,633	55,115,368	64,806,005
	§	28,968,322	37,208,240	2,095,980	12,003,558	14,866,076	7,157,943	7,692,980
Fuel oil and gas oil	Imp.gal.	192,337,034	224,220,274	6,843,497	30,076,410	36,543,394	143,341,889	176,587,978
	§	10,531,519	12,073,678	471,619	1,520,148	1,773,781	6,522,310	8,963,512
Tractor and engine distillate	Imp.gal.	...	5,335,353	4,965,575	20,173,321	8,958,632	230	...
	§	...	523,295	595,956	2,062,630	744,650	40	...
V. M. & P. or solvent naphtha	Imp.gal.	10,268,753	9,653,553	285,014	1,268,641	858,617	1,776,724	750,753
	§	1,186,693	1,079,369	50,433	172,217	95,629	215,161	75,441
Kerosene	Imp.gal.	3,844,820	17,689,781	457,005	4,582,531	2,440,443	...	...
	§	428,910	1,794,954	75,049	534,405	260,347	...	...
Lubricating oil	Imp.gal.	900,920	58,329,925	...	...	...	420,782	...
	§	189,193	8,394,332	...	...	...	88,070	...
Grease	Pound	...	21,396,466	...	...	...	15,454	...
	§	...	1,215,703	...	...	...	845	...
Asphalt	Imp.gal.	20,406,126	9,323,652	...	3,280,515	6,093,767	4,346,216	2,429,488
	§	1,587,762	848,452	...	247,946	497,371	392,387	218,654
Petroleum coke	Ton	1,122	75,285	...	1,483	23	...	253
	§	8,938	549,420	...	8,429	48	...	647
Other products	§	349,916	1,428,799	...	809,677	18,423	...	...
TOTAL - MADE FOR SALE ...	§	43,251,253	65,116,242	3,287,037	17,359,010	18,254,325	14,376,756	16,949,234
Made for own use -								
Gasoline	Imp.gal.	20,841	138,040	20,513	3,065	16,734	3,508	26,423
	§	3,038	36,706	3,688	336	3,334	350	3,448
Fuel oil and gas oil	Imp.gal.	21,235,945	35,545,263	2,095,204	7,590,727	698,554	8,042,014	8,491,722
	§	1,058,999	1,741,407	85,279	345,797	20,835	328,301	425,395
Kerosene	Imp.gal.	...	47,102	...	1,715	133,805	...	...
	§	...	4,588	...	194	13,728	...	...
Lubricating oil	Imp.gal.	...	88,666	...	...	...	3,532	...
	§	...	19,443	...	...	...	739	...
Petroleum coke	Ton	...	7,126	...	...	...	...	20
	§	...	49,306	...	...	...	...	49
Still gas	M cu.ft.	2,523,525	2,989,521	...	813,941	1,180,916	114,327	762,876
	§	1,042,077	1,090,884	...	289,715	217,543	35,975	277,566
Other products	§	319	236,233	...	33,375	1,273	218	1,928
TOTAL - MADE FOR OWN USE.	§	2,104,433	3,178,567	88,967	669,415	256,713	365,583	708,386
GRAND TOTAL	§	45,355,686	68,294,809	3,376,004	18,028,425	18,511,038	14,742,339	17,657,620
Fuel and gas oils made for use in cracking process	Imp.gal.	117,890,964	310,504,736	5,854,268	20,630,167	65,864,275	28,223,125	91,796,985

§ - Gross selling value at works.

Table 18 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1945

	Stocks on hand at refineries on December 31, 1943	Increase or decrease over December 31, 1942
	Imp.gal.	Imp.gal.
Crude oil and naphtha, in its natural state, from Canadian wells	12,441,199	- 440,186
Absorption gasoline, etc., from Canadian wells	882,595	/ 254,202
Crude oil, imported--In its natural state	161,824,462	/50,444,317
Not in its natural state .....	...	- 460,355
Total Crude	175,148,256	/49,777,968
Gasoline (excluding imported casinghead or Canadian absorption gasoline)	81,654,646	- 2,045,269
Stove oil (40°-42.5° A.P.I.)	4,515,096	- 1,475,041
Gas and light fuel oil (20°-40° A.P.I., excepting diesel)	30,217,879	- 2,535,903
Diesel fuel oil	8,987,655	/ 4,167,790
Residual fuel oil (10°-20° A.P.I.)	68,195,327	/22,977,644
Fuel oil for use in cracking process	30,867,812	/15,809,788
Tractor and engine distillate	4,778,792	- 2,217,713
V. M. & P. or solvent naphtha	4,082,799	/ 1,303,044
Kerosene	8,907,960	/ 2,582,619
Lubricating oils	3,666,577	- 1,479,018
Total Refined	245,874,523	/37,087,941

Table 19 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1942 and 1943

Areas	1 9 4 2		1 9 4 3	
	Barrels of 35 Imp.gal.	Value \$	Barrels of 35 Imp.gal.	Value \$
New Brunswick	28,089	39,467	24,550	34,342
Ontario	143,845	306,242	132,492	311,356
Alberta	10,117,073	15,514,665	9,601,530	15,724,518
Northwest Territories	75,789	103,477	293,750	400,201
CANADA	10,364,796	15,968,851	10,052,302	16,470,417

Table 20 - REFINERY PRODUCTION OF GASOLINE IN CANADA, 1931-1943

Year	Straight run	By cracking	TOTAL	Per cent of total made by cracking
	Imp.gal.	Imp.gal.	Imp.gal.	
1931	278,215,852	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

Table 21 - APPARENT CONSUMPTION IN CANADA OF GASOLINE, FUEL OIL, ENGINE DISTILLATE, KEROSENE AND LUBRICATING OIL, 1942 and 1943

	Fuel and gas oils (a)	Gasoline	Lubricating oils	Kerosene	Tractor and engine distillate
	Imp.gal.	Imp.gal.	Imp.gal.	Imp.gal.	Imp.gal.
<u>1942</u>					
Production	859,801,397(b)	749,564,750	59,374,231	24,957,796	44,676,079
Plus imports entered for consumption	40,480,340	115,995,765	15,137,879	9,546,503	1,285,939
Less exports and re-exports..	900,281,737	865,360,515	54,512,110	54,304,299	45,962,018
	50,964,402	15,897,471	5,023,580	924,699	...
Plus decline in stocks (c) ..	849,517,335	849,463,044	51,488,530	53,379,600	45,962,018
	...	40,175,792	...	...	...
Less increase in stocks (c)..	849,517,335	889,638,836	51,488,530	53,379,600	45,962,018
	5,143,240	...	667,146	1,659,746	1,845,890
APPARENT CONSUMPTION	844,174,095	889,638,836	50,821,384	51,719,854	44,116,128
<u>1943</u>					
Production	893,649,905	869,288,237	41,038,947	29,197,202	59,433,111
Plus imports entered for consumption	53,570,321	97,504,792	13,482,300	10,692,591	596,503
Less exports and re-exports..	947,220,226	966,793,029	54,521,247	59,889,793	40,029,614
	54,687,171	21,494,799	2,204,620	1,004,659	...
Plus decline in stocks (c) ..	892,533,055	945,298,230	52,316,627	40,894,452	40,029,614
	...	...	1,479,018	...	2,217,713
Less increase in stocks (c)..	892,533,055	945,298,230	53,795,645	40,894,452	42,247,327
	43,669,103	27,819,974	...	2,706,759	...
APPARENT CONSUMPTION ...	848,863,952	917,478,256	53,795,645	58,187,693	42,247,327

(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 1941 the amount under this item was 52,242,767 gallons; in 1942 it was 20,716,795 gallons, and in 1943 it was 27,816,694 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 22 - APPARENT CONSUMPTION OF FUEL OIL, GASOLINE, KEROSENE, ENGINE DISTILLATE, AND LUBRICATING OILS, 1932-1943

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

Year	Fuel and gas oils	Gasoline	Engine distillate	Kerosene	Lubricating oils
	(Imperial gallons)				
1932	460,566,156	505,231,853	Not	54,534,585	26,128,986
1933	481,688,950	463,176,444	avail-	42,562,473	30,557,493
1934	503,060,605	524,622,641	able	42,727,528	26,935,794
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	59,625,132
1938	592,659,806	769,926,869	32,029,333	27,466,756	58,749,528
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	958,316,103	40,536,279	29,464,627	52,981,705
1942	844,174,095	889,638,836	44,116,128	51,719,854	50,821,384
1943	848,863,952	917,478,256	42,247,327	58,187,693	53,795,645

Table 23 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1940-1943 (Gross sales--sold for all purposes; net sales--sold for use in automobiles) - Computed from Gasoline Tax returns.

Province	1940	1941	1942	1943
	(1000's of Imperial gallons)			
Prince Edward Island	4,094	5,175	6,629	7,881
Nova Scotia	34,961	41,355	40,886	42,465
New Brunswick	24,830	26,289	25,499	27,256
Quebec	148,500	165,839	149,917	147,048
Ontario	371,903	410,712	343,811	309,489
Manitoba	48,894	54,213	58,568	63,376
Saskatchewan	101,101	112,779	101,808	104,175
Alberta	83,809	93,068	97,502	114,970
British Columbia	65,198	70,996	73,187	86,932
TOTAL GROSS SALES	883,290	980,426	897,807	903,592
REFUNDS	181,176	233,900	287,525	373,747
TOTAL NET SALES	702,114	746,526	610,282	529,845

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1940-1943

Month	1940	1941	1942	1943
	(1000's of Imperial gallons)			
January	44,773	48,960	57,207	46,158
February	41,690	46,313	51,206	45,785
March	43,829	53,797	70,017	67,064
April	56,040	83,077	59,355	58,407
May	91,110	97,698	81,476	81,086
June	88,004	98,313	81,597	88,260
July	93,335	110,014	86,454	92,512
August	103,445	105,149	88,286	94,880
September	97,901	94,391	95,468	95,547
October	94,111	95,363	97,267	88,251
November	71,711	77,818	69,918	78,177
December	57,341	69,553	59,556	67,465
TOTAL	883,290	980,426	897,807	903,592

Table 25 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1943, and TOTALS for 1942

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	(Thousands of Imperial gallons)				
January	367	2,875	1,504	7,554	18,398
February	363	2,428	1,155	7,071	17,863
March	623	3,336	2,410	9,609	27,257
April	402	2,756	1,490	7,315	20,483
May	823	3,572	2,150	11,751	35,267
June	801	3,840	2,726	14,679	30,070
July	713	3,859	2,848	16,012	29,939
August	895	4,480	2,881	16,242	30,912
September	933	4,773	2,965	16,021	30,273
October	690	3,649	2,509	16,046	28,640
November	661	3,545	2,420	13,828	26,419
December	610	3,352	2,198	10,920	23,968
TOTALS FOR 1943	7,881	42,465	27,256	147,048	309,489
TOTALS FOR 1942	6,628	40,886	25,500	149,919	343,811

Table 26 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1945, and TOTALS FOR 1942 (Con.)

Month	Manitoba	Saskatchewan	Alberta	British Columbia	TOTAL
	(Thousands of Imperial Gallons)				
January	2,819	2,963	4,502	5,174	46,158
February	2,847	2,976	5,406	5,673	45,785
March	3,956	4,401	7,542	7,949	67,064
April	4,469	6,975	7,639	6,878	58,407
May	4,777	12,446	12,889	7,412	81,086
June	5,849	12,077	11,750	6,488	88,260
July	6,572	12,859	11,899	8,011	92,512
August	7,105	11,862	11,929	8,577	94,880
September	7,157	12,628	12,550	8,286	95,547
October	7,066	10,765	11,069	7,821	88,251
November	5,765	7,569	9,788	8,185	78,177
December	5,256	6,658	8,046	6,478	67,465
TOTALS FOR 1945	63,576	104,175	114,969	86,952	903,592
TOTALS FOR 1942	58,567	101,808	97,502	73,186	897,807

Table 27 - NET SALES (FOR USE IN AUTOMOBILES) OF GASOLINE IN CANADA, BY PROVINCES, 1940-1945

Province	1940	1941	1942	1945
	(Thousands of Imperial gallons)			
Prince Edward Island	5,050	2,689	2,492	2,687
Nova Scotia	29,567	31,955	23,596	21,844
New Brunswick	21,328	20,479	15,990	15,872
Quebec	139,450	150,948	126,636	116,966
Ontario	328,484	346,516	275,341	213,186
Manitoba	40,176	39,764	54,551	32,492
Saskatchewan	47,977	48,778	44,503	40,767
Alberta	41,338	50,587	47,644	44,904
British Columbia	50,984	54,610	44,529	41,127
CANADA	702,114	746,526	610,282	529,845

Table 28 - REVENUES FROM GASOLINE TAXES, BY PROVINCES, 1940-1945

Province	1940	1941	1942 (f)	1945 (f)
	\$	\$	\$	\$
Prince Edward Island	300,842	284,722	351,579	325,988
Nova Scotia	2,875,400	3,031,449	2,893,101	2,868,278
New Brunswick	2,104,686	2,052,254	2,081,277	2,101,075
Quebec	11,154,540	12,260,427	11,506,921	11,803,248
Ontario	26,608,271	27,641,457	26,608,291	26,608,291
Manitoba	2,805,074	2,736,159	2,678,149	2,678,149
Saskatchewan	3,348,956	3,340,357	3,397,280	3,397,279
Alberta	3,221,775	4,212,305	3,524,625	3,645,895
British Columbia	3,759,629	4,005,947	3,763,626	3,763,626
Yukon .....	...	14,500(x)	19,562	23,505
CANADA	56,179,175	59,579,356	56,824,411	57,215,332

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

(x) Levied for first time in 1941.

Table 29 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1951-1945

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
	\$	\$		\$	\$
1951	19,684,908	22,546,119	1958	26,250,196	41,247,688
1952	21,126,271	27,083,316	1959	27,961,132	51,954,360
1953	20,576,392	26,467,765	1940	29,300,720	56,179,175
1954	21,567,850	29,054,853	1941	31,559,944	59,579,356
1955	23,090,978	31,552,645	1942	28,498,676	56,824,411
1956	25,632,843	34,532,456	1943	29,627,019	57,215,332
1957	25,995,905	38,375,947			

Table 30 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1940-1945

Province	1940	1941	1942	1945
	(Number)			
Prince Edward Island	8,070	8,013	7,537	8,052
Nova Scotia	57,873	62,805	58,872	59,194
New Brunswick	39,000	41,441	37,758	40,205
Quebec	225,152	232,149	222,622	222,676
Ontario	703,872	739,194	715,380	691,615
Manitoba	90,952	96,573	93,147	95,494
Saskatchewan	126,970	131,403	130,040	133,839
Alberta	120,514	124,244	125,482	127,559
British Columbia	128,044	132,509	132,893	134,691
Yukon	402	427	422	540
CANADA	1,500,829	1,568,758	1,524,153	1,511,845

Table 31 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1945

Province	Passenger cars	Motor trucks	Motor buses	Motor cycles	Other motor vehicles	TOTAL
	(Number)					
Prince Edward Island	6,670	1,290	20	28	24	8,052
Nova Scotia	42,509	14,439	212	1,073	961	59,194
New Brunswick	30,083	8,424	194	377	1,127	40,205
Quebec	171,369	47,229	1,264	2,814	...	222,676
Ontario	586,036	97,550	1,614	6,415	...	691,615
Manitoba	71,603	20,919	106	748	118	95,494
Saskatchewan	93,895	38,943	257	722	22	133,839
Alberta	92,551	33,961	158	889	...	127,559
British Columbia ...	98,920	31,146	477	3,306	842	134,691
Yukon	211	275	...	24	30	540
CANADA	1,193,847	294,176	4,302	16,396	3,124	1,511,845

Table 32 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1940-1945

(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 Number domestic customers	Quantity	Industrial (manufac- turers') heating and for power	Tractor fuel oil, not lubricant	Railways, princi- pally locomotive fuel	Bunkering including distribu- tors' tankers	TOTAL DELIVERIES	Inventory on December 31st, at refinery, warehouses and consum- ers' storage
1945								
N.B. and P.E.I.	4,406	3,515,784	4,331,674	117,522	540,253	7,834,080	16,339,313	4,583,214
Nova Scotia ...	11,037	6,783,321	11,800,184	127,543	564,658	123,256,608	142,532,314	23,477,909
Quebec	46,762	32,231,342	79,073,907	3,148,783	1,046,975	26,495,087	141,996,094	71,296,180
Ontario	22,586	33,417,826	141,090,631	10,497,502	1,574,681	12,605,084	199,185,724	116,317,480
Manitoba	1,148	1,232,221	4,891,777	17,428,308	736,841	764,320	25,053,467	3,159,477
Saskatchewan ..	2,976	1,719,535	10,000,249	15,408,271	6,435,904	...	33,563,959	13,523,573
Alta. and N.W.T.	97	90,158	9,160,479	11,848,796	30,682,052	205,240	51,986,705	9,615,203
B.C. and Yukon.	16,691	16,387,917	63,321,162	6,106,128	36,246,073	63,070,439	185,131,719	33,496,525
TOTAL 1945	105,703	95,378,104	323,670,063	64,682,853	77,827,417	234,230,858	795,789,295	275,469,561
TOTAL 1942	95,288	124,032,987	343,674,966	55,182,541	73,877,145	239,109,211	835,876,850	231,800,458
TOTAL 1941	108,445	146,750,746	301,818,674	58,773,421	73,173,172	275,233,778	855,749,791	226,657,218
TOTAL 1940	62,815	150,073,413	241,293,960	30,604,540	55,268,523	248,567,157	725,807,593	215,487,681

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.

Table 33 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1940-1943

Province	For		For other general usage	Less		Total deliveries	Inventory December 31st
	domestic heating, cooking and lighting purposes	For fuel in tractors		kerosene used as material (major users)			
<u>1943</u>							
New Brunswick and Prince Edward Island	1,435,090	...	22,316	1,215	1,456,191	436,492	
Nova Scotia	1,172,010	216	12,228	14,418	1,170,036	4,154,859	
Quebec	5,594,382	21,312	164,770	127,921	5,452,543	3,641,675	
Ontario	6,727,386	212,907	473,569	454,063	6,959,799	4,937,886	
Manitoba	1,670,840	10,192	531,797	15,080	2,197,749	447,041	
Saskatchewan	2,877,084	17,938	225,354	3,121	3,117,255	1,551,218	
Alberta and Northwest Territories	2,161,574	596	491,118	1,850	2,651,438	1,030,913	
British Columbia and Yukon	1,551,950	...	66,286	4,417	1,613,819	604,923	
TOTAL 1943	22,990,316	263,161	1,987,438	-622,085	24,618,830	16,805,007	
TOTAL 1942	22,521,333	1,062,911	1,962,675	-626,815	24,920,164	14,136,078	
TOTAL 1941	22,890,080	831,037	1,233,053	-411,239	24,542,931	12,476,332	
TOTAL 1940	22,652,011	1,772,271	488,667	...	24,912,949	15,089,049	

Table 34 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1942 and 1943

(Used as fuel only--not as manufacturing materials)

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

Fuel for domestic and industrial heating	1942	1943
	(tons)	
New Brunswick and Prince Edward Island .....	...	...
Nova Scotia	362	273
Quebec	10	182
Ontario	27,292	17,049
Manitoba .....	...	...
Saskatchewan	1,715	1,364
Alberta and Northwest Territories	101	...
British Columbia and Yukon .....	...	...
TOTAL	29,480	18,868

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) 1943

Seventeen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1943. Ten of these plants were located in Ontario, 3 in Quebec, 3 in British Columbia and 1 in Saskatchewan.

They employed a fixed and working capital of \$552,957 and gave work to a monthly average of 90 people who were paid \$152,841 as salaries or wages. Purchases of processing materials and containers cost \$667,859 and the selling value of products totalled \$1,140,133. Included in the year's output were lubricating oils at \$860,879, lubricating greases at \$172,642 and soaps or soap powders at \$34,368.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 41,038,947 gallons in 1943 against 39,374,231 gallons in 1942. Corresponding figures for lubricating greases totalled 22,515,107 pounds in 1943 and 22,600,812 pounds in 1942. 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 1943 amounted to 53,795,645 gallons.

Table 35 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1922-1943

Year	No. of plants	Capital employed	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
		\$		\$	\$	\$	\$
1922	6	800,629	57	101,598	4,172	285,511	559,742
1923	8	738,843	62	116,751	6,256	381,590	709,028
1924	8	700,010	66	125,727	6,500	425,419	735,720
1925	8	1,118,649	85	153,148	14,113	446,721	959,512
1926	6	701,676	55	109,810	4,746	388,288	626,071
1927	7	695,371	54	110,000	4,614	316,591	548,971
1928	9	720,196	67	119,546	7,204	350,658	673,780
1929	10	1,373,192	95	168,839	8,699	572,757	1,024,134
1930	13	1,256,399	104	186,773	8,861	492,550	977,494
1931	12	847,725	64	104,677	7,481	264,319	570,219
1932	7	593,484	58	82,870	7,003	207,916	357,433
1933	10	626,968	77	100,715	7,000	270,791	464,544
1934	9	570,545	81	104,427	6,857	309,523	551,856
1935	13	695,409	85	106,549	7,625	455,898	774,444
1936	13	576,106	84	116,807	5,513	356,737	629,382
1937	13	520,687	90	120,260	5,127	407,908	752,060
1938	12	523,870	89	122,294	4,284	425,959	881,756
1939	11	596,256	91	153,917	5,129	543,594	1,084,279
1940	11	597,815	96	192,241	5,309	557,632	1,200,503
1941	14	565,471	89	140,464	5,005	723,923	1,245,623
1942	18	605,344	85	146,052	6,722	747,220	1,087,687
1943	17	552,957	90	152,841	6,402	667,859	1,140,133

Table 36 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1942 and 1943

Province	No. of plants	Capital employed	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>1942</u>							
Ontario	11	395,786	50	82,937	2,429	654,969	887,096
Quebec	3	114,549	26	50,231	3,036	67,276	149,824
Saskatchewan ...	1)	95,009	9	12,884	1,257	24,975	50,767
British Columbia	3)						
CANADA	18	605,344	85	146,052	6,722	747,220	1,087,687
<u>1943</u>							
Ontario	10	427,310	54	85,556	2,447	569,588	932,622
Quebec	3	99,567	25	51,287	2,699	59,227	137,888
Saskatchewan ...	1)	26,080	11	15,998	1,256	39,044	69,623
British Columbia	3)						
CANADA	17	552,957	90	152,841	6,402	667,859	1,140,133

Table 37 - CAPITAL EMPLOYED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1942 and 1943

Province	Value of land, buildings, machinery and equipment	Value of Inventories		Operating capital (cash, bills receivable, etc.)	TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
<u>1942</u>					
Ontario	83,954	28,530	103,646	179,656	395,786
Other provinces	135,607	14,187	9,950	49,814	209,558
CANADA	219,561	42,717	113,596	229,470	605,344
<u>1943</u>					
Ontario	105,021	35,880	107,400	179,009	427,310
Other provinces	80,415	11,888	4,015	29,329	125,647
CANADA	185,436	47,768	111,415	208,338	552,957

Table 38 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1942 and 1943

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1942								
Ontario	24	6	18	2	50	59,060	23,877	82,937
Other provinces ...	16	2	15	2	35	40,381	22,734	63,115
CANADA	40	8	33	4	85	99,441	46,611	146,052
1943								
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

Table 39 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1942 and 1943

Month	Ontario		Other Provinces		C A N A D A	
	1942	1943	1942	1943	1942	1943
January	19	16	15	15	34	31
February	19	16	16	17	35	33
March	19	18	17	16	36	34
April	20	19	17	15	37	34
May	21	19	17	16	38	35
June	20	17	19	17	39	34
July	19	23	19	19	38	42
August	19	22	18	18	37	40
September	19	21	17	16	36	37
October	19	21	16	16	35	37
November	21	20	14	15	35	36
December	19	18	15	13	34	31
AVERAGE	20	19	17	17	37	36

Table 40 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1942 and 1943

Kind	Unit of measure	1942		1943	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Coal, anthracite	ton	26	386	34	488
Coal, bituminous--Canadian	ton	...	...	13	146
Imported	ton	142	1,373	110	1,275
Coke	ton	1	14	3	42
Gasoline (includes gasoline used in cars and trucks)	Imp.gal.	4,312	1,156	3,758	1,098
Kerosene or coal oil	Imp.gal.	50	12	40	8
Fuel oil	Imp.gal.	400	24	1,800	200
Wood	cord	91	1,065	64	769
Manufactured gas	M cu.ft.	710	719	640	665
Electricity purchased	K. W. H.	82,320	1,973	79,661	1,711
TOTAL .....	...	...	6,722	...	6,402

Table 41 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1942 and 1943

	1942		1943	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	2	8	2	8
Electric motors run by purchased power	37	71	37	66
TOTAL	39	79	39	74
Stationary boilers	5	293	3	36

Table 42 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1942 and 1943

Material	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Compounding stocks (oils, etc.)	Imp.gal.	1,547,820	513,140	1,145,932	450,455
Tallow and grease	lb.	180,014	18,684	170,837	19,040
All other materials .....	...	...	82,894	...	108,189
Shipping containers .....	...	...	132,502	...	110,175
TOTAL .....	...	...	747,220	...	667,859

Table 43 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1942 and 1943

Product	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Greases, lubricating ...	pound	1,726,281	217,755	1,103,187	172,642
Oils, lubricating	gallon	1,236,595	782,436	1,295,122	860,879
Soaps and powders .....	...	500,294	43,209	...	34,368
All other products .....	...	...	44,287	...	72,244
TOTAL .....	...	...	1,087,687	...	1,140,133

Table 44 - SALES OF LUBRICATING OILS IN CANADA, 1943 (As reported by principal dealers)

Province	Sales of Lubricating Oils - Year 1943			
	Motor transport crankcase oils	Aircraft crankcase oils	Other oils (industrial, etc.)	TOTAL ALL PURPOSES
	(Imperial gallons)			
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	287,473	2,074,057	5,198,991
CANADA	23,638,183	4,205,635	22,788,453	50,632,280

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1943

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	Imperial	54,000	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
McCull-Fontenac 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
McCull-Fontenac Oil Co. Limited	Toronto	15,000	S - C	Combination unit and Jenkins Stills	15,000
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	...	...
Trump Oil Company Limited	Morris	250	S	...	...
<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	9,500	S - C	Tube and tank	6,500
Northern Petroleum Corporation, Ltd.	Kamsack	200	S	...	...
Sterling Refineries Ltd.	Yorkton	750	S - C	Liquid phase	250
<u>Alberta -</u>					
British American Oil Co. Limited	Calgary	4,500	S - C	Liquid and vapour phase	2,250
Dina Oil & Refining Co. Ltd.	Dina	200	S	...	...
Gas and Oil Products, Ltd.	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
Lloydminster Refineries Ltd.	Lloydminster	100	S	...	...
Pacific Oil & Refinery of Alberta Ltd.	Lethbridge	2,000	S	...	...
<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, 1945

Name of Company	Location of Plant
<u>Quebec -</u>	
Chapman, L. L. and W. H. Economic Products Ltd. Union Products	Champlain St., Gatineau Point 6508 Durocher Ave., Outremont 1150 Conway St., Montreal
<u>Ontario -</u>	
Campbell Grease Company Casite Products Company Hollingshead, R. M., Co. of Canada, Ltd. The Kearns Co. of Canada Kendall Refining Company of Canada, Ltd. Ontario Lubricating Co. Ltd. Ontario Gasoline & Oil Ltd. Tide Water Oil Co. of Canada, Ltd. Waddell, R. Ensign Products Co.	414 Eastern Ave., Toronto Colebrook Bowmanville 226 Weston Road, Toronto 55 Fraser Ave., Toronto 120 Chatham St., Hamilton 45 Dickens Ave., Toronto 261 Weston Road South, Toronto John and Haymarket Sts., Hamilton 27 Carleton St., St. Catharines
<u>British Columbia -</u>	
Canada Grease Works Ltd. Renton Distributors Ltd. H. J. Halvorsen (Bar-Dol Products)	280 East 6th Avenue, Vancouver 1927 Granville St., Vancouver 5405 W. Boulevard, Vancouver
<u>Saskatchewan -</u>	
Home Oil & Refining Co. Ltd.	Humboldt

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