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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

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MINING, METALLURGICAL & CHEMICAL STATISTICS



THE PETROLEUM PRODUCTS INDUSTRY

IN

CANADA

1945



OTTAWA

1947

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Annual Industry Report

Manufacturers Of The Non-Metallic Minerals
GroupPETROLEUM PRODUCTS INDUSTRY, 1945

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 refineries and 16 blending plants, or a total of 46 works, reported under this category in 1945 and the aggregate value of production was \$201,683,679 a decrease of 4 per cent over the 1944 total of \$210,547,416.

Output figures for 1945 included \$200,233,529 for petroleum refineries and \$1,450,150 for concerns engaged in blending oils and greases, against corresponding totals in 1944 of \$209,125,332 and \$1,422,084 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, 1939 - 1945

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>						
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	5,935	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
1945	30	6,670	13,679,972	9,100,033	150,185,119	200,233,529
<u>Compounding Oils and Greases</u>						
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	371,293	1,422,084
1945	16	105	211,338	6,356	968,310	1,450,150
<u>TOTAL</u>						
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
1945	46	6,775	13,891,310	9,106,389	151,153,429	201,683,679

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, 1944 and 1945

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>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
<u>1945</u>						
Quebec.....	7	1,298	2,650,621	2,250,264	41,891,685	51,235,894
Ontario	16	3,171	6,579,079	4,137,066	53,309,218	77,042,532
Manitoba	3	208	379,120	95,616	3,019,579	3,901,369
Saskatchewan	7	553	1,088,958	829,547	13,718,277	18,172,753
Alberta.....	4	558	1,099,153	547,297	12,000,140	17,902,009
British Columbia.....	6	443	908,994	499,310	13,172,999	16,230,791
Nova Scotia	1)					
New Brunswick	1)	544	1,185,385	747,289	14,041,531	17,198,331
Northwest Territories	1)					
CANADA	46	6,775	13,891,310	9,106,389	151,153,429	201,683,679

(a) THE PETROLEUM REFINING INDUSTRY, 1945

Thirty petroleum refineries operating in Canada during 1945 were distributed by provinces as follows: 7 in Saskatchewan, 4 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 1944 there was a decrease of 2 refineries in Alberta. The operating refineries had a capacity of 231,215 barrels of crude oil per day, of which Ontario had 75,450 barrels or 33 per cent; Quebec 63,000 barrels or 26 per cent; Nova Scotia 34,000 barrels or 14 per cent; British Columbia 21,000 barrels or 9 per cent; Saskatchewan 18,075 barrels or 8 per cent; Alberta 18,100 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, 274,831,125 gallons of imported crude oil and 2,031,784,863 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 2,306,615,988 gallons was put through Canadian refineries, this amounting to about 66 per cent of the rated capacity. Of the total crude input, about 48 per cent was imported from the United States and nearly 40 per cent from other countries, while about 12 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 \$138,011,955. Stocks of crude oil held at the refineries on December 31 amounted to 86,811,584 gallons.

Refinery production of gasoline in 1945 amounted to 953,016,955 gallons, and in addition the refineries used for blending about 21,606,036 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1945 was 2 per cent under 1944 which, in turn, was 12 per cent over 1943. The refinery selling value of the gasoline made during the year was \$110,785,813. Stocks of gasoline held by the refineries on December 31 included 134,912,265 gallons of straight run or cracked gasoline and 7,660,039 gallons of imported casinghead gasoline. In 1945 there was an output of 14,438,900 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 78,550,544 gallons during 1945, which, added to the production of 953,016,955 gallons less the increase in producers', distributors', and consumers' stocks of 28,431,401 gallons and less the exports of 66,195,397 gallons, made an apparent Canadian consumption of 936,940,701 gallons. Actual sales as reported to the Bureau on a monthly basis amounted to 1,033,233,215 gallons.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 927,294,171 gallons, of which 821,845,392 gallons were made for sale and 105,448,779 gallons for use as fuel in the producing plant. Imports amounted to 53,350,962 gallons and exports to 32,615,854 gallons. Stocks of fuel oil and distillate at the end of the year stood at 103,673,956 gallons, or about 16,058,533 gallons less than in 1944. Output of tractor and engine distillate was 36,966,595 gallons in 1945, imports amounted to 356,012 gallons, and producers' stocks decreased 672,257 gallons. The apparent consumption of fuel oils and distillate in Canada as calculated from the above figures, amounted to 1,002,082,676 gallons.

Monthly employment in the refining industry averaged 6,670 persons who received \$13,679,972 in salaries and wages. Expenditures for fuel and electricity amounted to \$9,100,033 and \$150,185,119 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1942 - 1945

Province	1942		1943		1944		1945	
	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	63,000	4	59,000
Ontario.....	5	68,000	6	76,250	6	75,450	6	75,450
Manitoba.....	4	3,650	4	4,150	3	4,000	3	4,500
Saskatchewan.....	8	16,775	8	16,825	7	17,075	7	18,075
Alberta.....	8	18,100	7	18,400	6	19,000	4	18,100
British Columbia...	3	24,500	3	24,500	3	24,800	3	21,000
Northwest Territories	1	840	1	840	1	840	1	840
CANADA.....	35	233,115	35	242,215	32	238,415	30	231,215

Note: 1 barrel= 35 Imp. Gal.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1931 - 1945

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
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	3,130,719	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	96,121,611
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	185,965,921
1944....	32	6,699	14,121,064	8,997,491	152,687,371	209,125,332
1945....	30	6,670	13,679,972	9,100,033	150,185,119	200,233,529

Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY BY PROVINCES, 1944 and 1945

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
<u>1944</u>						
Quebec.....	4	1,149	2,510,150	2,206,344	40,823,475	51,970,758
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	19,824,211
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
CANADA.....	32	6,699	14,121,064	8,997,491	152,687,371	209,125,332
<u>1945</u>						
Quebec.....	4	1,274	2,592,134	2,246,891	41,828,419	51,097,717
Ontario.....	6	3,100	6,438,579	4,134,930	52,437,636	75,808,256
Manitoba.....	3	208	379,120	95,616	3,019,579	3,901,369
Saskatchewan.....	7	553	1,088,958	829,547	13,718,277	18,172,753
Alberta.....	4	558	1,099,153	547,297	12,000,140	17,902,009
British Columbia....	3	433	896,643	498,463	13,139,537	16,153,094
Other provinces (x)...	3	544	1,185,385	747,289	14,041,531	17,198,331
CANADA.....	30	6,670	13,679,972	9,100,033	150,185,119	200,233,529

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

Table 6 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1944 and 1945

Province	Average number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1944</u>								
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
CANADA.....	1,074	303	5,137	185	6,699	3,690,527	10,430,537	14,121,064
<u>1945</u>								
Quebec.....	216	32	1,019	7	1,274	638,667	1,953,467	2,592,134
Ontario.....	433	143	2,428	96	3,100	1,550,587	4,887,992	6,438,579
Manitoba.....	42	13	147	6	208	88,351	290,769	379,120
Saskatchewan.....	82	22	441	8	553	258,230	830,728	1,088,958
Alberta.....	78	17	449	14	558	257,970	841,183	1,099,153
British Columbia....	56	14	359	4	433	204,064	692,579	896,643
Other provinces..	47	22	463	12	544	198,865	986,520	1,185,385
CANADA.....	954	263	5,306	147	6,670	3,196,734	10,483,238	13,679,972

Table 7 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1945 (On the last work-day of each month)

Month	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other provinces	CANADA
January.....	954	2,559	150	409	455	337	474	5,338
February.....	955	2,552	149	421	454	338	476	5,345
March.....	972	2,484	150	427	458	342	477	5,310
April.....	966	2,514	152	445	463	342	481	5,363
May.....	1,026	2,504	151	469	485	360	486	5,481
June.....	1,087	2,528	151	464	485	376	497	5,588
July.....	1,089	2,572	157	469	488	384	502	5,661
August.....	1,084	2,518	149	480	486	378	487	5,582
September.....	1,064	2,460	153	459	443	369	466	5,414
October.....	1,045	2,532	157	454	445	367	469	5,469
November.....	1,061	2,543	156	464	448	372	448	5,492
December.....	1,030	2,514	153	447	442	383	446	5,415
AVERAGE...	1,026	2,524	153	449	463	363	475	5,453

Table 8 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1944 and 1945 (In one week of month of highest employment; overtime included)

Regular Hours Worked per Week	Number of Wage-Earners					
	1944			1945		
	Male	Female	TOTAL	Male	Female	TOTAL
30 hours or less.....	105	11	116	152	2	154
31-43 hours.....	844	28	872	1,006	28	1,034
44 hours.....	1,942	135	2,077	2,835	122	2,957
45-47 hours.....	137	3	140	159	3	162
48 hours.....	1,740	30	1,770	757	19	776
49-50 hours.....	88	1	89	85	...	85
51-54 hours.....	311	...	311	189	...	189
55 hours.....	35	...	35	28	...	28
56-64 hours.....	315	2	317	208	...	208
65 hours and over.....	71	...	71	189	...	189
Total.....	5,588	210	5,798	5,608	174	5,782
Total wages paid in week.....	\$206,448	5,639	212,087	207,431	4,647	212,078

Table 9 - FUEL (x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1944 and 1945

Kind	Unit of measure	1944		1945	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian.....	ton	91	855	...	...
Imported	ton	18,051	125,121	9,987	71,053
Coke, including petroleum coke.....	ton	1,645	10,943	7,253	36,206
Gasoline.....	Imp. Gal.	306,413	60,758	203,877	47,847
Kerosene.....	Imp. Gal.	63,545	6,976	52,236	5,472
Fuel oil.....	Imp. Gal.	103,378,129	4,524,045	108,383,202	4,849,346
Wood.....	cord	290	1,429	66	394
Gas - Manufactured, including still gas	M cu.ft.	9,626,178	3,190,405	9,010,774	2,892,567
Natural.....	M cu.ft.	2,283,330	184,529	2,681,280	235,469
Other fuel.....	...	...	172,176	...	236,965
Electricity purchased.....	K.W.H.	101,054,898	720,254	103,789,244	724,714
Total.....	...	...	8,997,491	...	9,100,033
Electricity generated for own use	K. W. H.	381,005	...	295,000	...

(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, 1944 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1944</u>				
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
Total Primary Equipment.....	658	33,831	70	3,067
Electric motors run by purchased power.....	2,022	36,719	71	1,338
TOTAL.....	2,680	70,550	141	4,405
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	...	...
<u>1945</u>				
Steam engines.....	223	7,912	50	1,091
Steam turbines.....	402	22,130	22	2,102
Diesel engines.....	10	1,220	...	...
Gasoline, gas and oil engines (except diesel)	34	2,568	2	75
Total primary equipment	669	33,830	74	3,268
Electric motors run by purchased power.....	2,100	37,107	88	1,405
TOTAL.....	2,769	70,937	162	4,673
Electric motors run by power generated by				
primary equipment above.....	51	279	...	...
Stationary power boilers.....	140	39,482	8	855
Motor-generator sets.....	10	866	...	...

Table 11 - MATERIALS USED IN PETROLEUM REFINERIES, 1944 and 1945

Material	Unit of measure	1944		1945	
		Quantity	Cost at works	Quantity	Cost at works
Crude oil (under 60° A. P. I.) in its natural state, from Canadian wells, Imp. Gal.	Imp. Gal.	287,359,621	16,061,249	261,649,701	14,448,892
Absorption gasoline, etc., from Canadian wells (run to stills)... Imp. Gal.	Imp. Gal.	13,176,450	796,167	11,460,721	666,550
Crude oil, in its natural state, imported, (run to stills)-					
(a) From United States	Imp. Gal.	1,162,235,098	73,219,333	1,116,775,550	67,573,181
(b) From Other Countries	Imp. Gal.	820,436,701	50,612,860	915,009,313	55,323,332
Crude oil, not in its natural state (run to stills).....	Imp. Gal.	...	...	...	...
Benzol for blending.....	Imp. Gal.	3,650,151	548,758	2,891,487	431,981
Phenol.....	pound	892,069	126,539	1,007,329	141,610
Sulphuric acid, 66° Be.....	pound	42,768,370	461,306	39,989,522	437,370
Sulphur.....	pound	102,090	2,628	102,958	2,659
Caustic soda.....	pound	8,331,182	223,316	8,503,517	235,011
Soda ash.....	pound	480,416	11,335	510,755	11,742
Litharge.....	pound	369,981	30,346	246,523	21,325
Fuller's earth, bentonite and other clays.....	pound	27,993,850	653,741	28,604,000	685,761
Compounding materials.....	...	...	353,699	...	362,323
Tetraethyl fluid.....	c.c.	1,393,917,796	3,311,309	2,002,251,865	4,243,461
Blending stocks for aviation gas..	Imp. Gal.	14,997,331	4,769,116	11,192,158	3,515,960
Other materials.....	...	...	896,425	...	1,484,642
Shipping containers.....	...	...	609,244	...	599,329
TOTAL.....	...	...	152,687,371	...	150,185,119

Table 12 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1945

Material	Eastern Provinces	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia and Northwest Territories
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells.. gal.	1,085,945	3,933,357	20,446,892	39,690,570	192,844,502	3,648,435
\$	43,439	280,092	1,617,438	2,659,116	9,762,716	86,091
Absorption gasoline, etc. from Canadian wells (run to stills)..... gal.	...	...	...	...	11,460,721	...
\$	...	...	...	...	666,550	...
Crude oil, in its natural state, imported (run to stills) - (a) From United States.gal.	13,736,590	789,829,238	14,761,628	160,053,253	...	138,394,841
\$	1,047,791	47,803,156	1,336,097	10,452,278	...	6,933,859
(b) From Other Count- ries gal.	832,381,113	...	...	...	...	82,628,200
\$	50,588,687	...	...	...	...	4,734,645
Crude oil, not in its natural state, imported gal.	...	...	...	...	...	...
\$
Benzol for blending.... gal.	852,019	2,034,438	...	4,781	249	...
\$	128,171	302,458	...	1,209	143	...
Sulphuric acid 66° Be.. lb.	1,723,065	28,930,208	224,705	1,121,242	5,716,043	2,274,259
\$	18,085	295,647	5,722	18,931	76,258	22,727
Sulphur..... lb.	23,540	38,918	1,100	400	39,000	...
\$	617	949	55	8	1,030	...
Caustic soda..... lb.	3,872,774	1,982,251	251,698	432,766	1,571,240	392,788
\$	113,258	40,245	7,988	14,301	56,585	12,634
Soda ash..... lb.	65,460	27,900	...	324,495	80,900	12,000
\$	1,340	416	...	7,555	2,160	271
Litharge..... lb.	16,370	97,518	1,806	3,990	124,080	2,759
\$	1,212	7,899	236	458	11,245	275
Fullers' earth and clay lb.	200,000	28,110,000	...	54,000	36,000	204,000
\$	2,708	677,856	...	1,139	863	3,195
Compounding materials.. \$	...	343,491	...	...	...	18,832
Tetraethyl fluid..... \$	1,631,471	1,406,510	39,322	353,955	441,812	370,381
Other materials..... \$	2,193,130	716,295	12,721	193,182	980,778	1,036,106
Shipping containers.... \$	...	562,622	...	16,145	...	20,562
TOTAL..... \$	55,769,909	52,437,636	3,019,579	13,718,277	12,000,140	13,239,578

\$ = Cost at works.

Table 13 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1931 - 1945

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	1,132,166,965	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.....	359,535,738	1,551,617,151	1,911,152,889
1943.....	337,070,674	1,746,982,235	2,084,052,909
1944.....	300,536,071	1,932,671,799	2,283,207,870
1945.....	274,831,125	2,031,784,963	2,306,615,988

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

(b) Includes reduced crude.

Petroleum Products

Table 14 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1945 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp. gal.	27,362,311
	\$	2,907,069
Imported natural casinghead gasoline used for blending during the year.....	Imp. gal.	21,606,036
Total stocks of imported natural casinghead gasoline at the end of the year..	Imp. gal.	7,660,035

Table 15 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1944 and 1945

Product	Unit of measure	1944		1945	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
Made for sale -					
Gasoline (1) Straight run- Aviation	Imp. gal.	106,179,849	20,824,870	19,174,916	3,681,285
Standard	Imp. gal.	361,781,250	42,181,182	447,191,539	50,994,481
By cracking (2) Aviation	Imp. gal.	1,083,600	159,525	...	...
Standard	Imp. gal.	501,611,868	59,577,615	486,436,530	56,060,726
Stove oil (40°-42.5° A.P.I.).....	Imp. gal.	28,437,386	1,730,572	39,408,805	2,401,840
Gas and light fuel oil (20°-40° A.P.I., except diesel).....	Imp. gal.	117,459,777	6,902,795	126,893,270	8,038,426
Diesel fuel oil (all fuel oil sold under this name).....	Imp. gal.	91,905,867	5,087,576	116,571,599	6,515,379
Residual fuel oil (10°-20° A.P.I.)	Imp. gal.	561,755,157	26,899,271	538,971,718	26,036,188
Tractor and engine distillate.....	Imp. gal.	42,125,587	4,016,904	36,965,460	3,511,911
V. M. and P. or solvent naphtha.....	Imp. gal.	27,542,328	3,301,325	27,682,130	3,287,078
Kerosene.....	Imp. gal.	28,108,877	3,261,941	33,321,509	3,824,092
Lubricating oil.....	Imp. gal.	46,450,828	10,814,700	50,018,247	11,864,974
Lubricating grease.....	pound	19,853,223	869,580	19,035,906	850,874
Asphalt.....	Imp. gal.	62,909,214	5,419,257	69,247,333	6,092,110
Petroleum coke.....	ton	71,158	507,166	59,559	472,933
Other products (3).....	...	...	9,400,632	...	8,457,745
TOTAL - MADE FOR SALE.....	...	...	200,954,911	...	192,090,042
Made for own use -					
Gasoline - Straight run.....	Imp. gal.	267,342	46,682	191,255	45,891
By cracking process.....	Imp. gal.	17,263	2,667	22,715	3,430
Stove oil.....	Imp. gal.	1,075	53	1,795	92
Gas and light fuel oil (20°-40° A.P.I.).....	Imp. gal.	45,223	2,982	112,012	5,289
Diesel fuel oil.....	Imp. gal.	116,372	6,476	124,359	6,887
Residual fuel oil (10°-20° A.P.I.)	Imp. gal.	101,424,680	4,609,437	105,210,613	4,824,466
Tractor and engine distillate.....	Imp. gal.	245	19	1,135	71
Kerosene.....	Imp. gal.	68,236	7,707	52,898	6,020
Lubricating oil.....	Imp. gal.	117,341	26,575	64,848	14,826
Asphalt.....	Imp. gal.	213,197	17,570	55,519	4,917
Petroleum coke.....	ton	1,651	10,997	7,260	36,269
Still gas.....	M cu. ft.	9,167,488	3,193,500	8,974,774	2,947,947
Other products.....	...	...	245,756	...	247,382
TOTAL - MADE FOR OWN USE.....	...	...	8,170,421	...	8,143,487
GRAND TOTAL.....	...	...	209,125,332	...	200,233,529

(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, ethane, 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, 1945

Product	Unit of measure	Eastern Provinces	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories
<u>Made for sale -</u>							
Gasoline.....	Imp. gal.	307,501,221	323,252,966	20,320,523	109,792,331	126,990,406	64,945,538
	⌘	37,871,893	35,736,178	2,728,644	12,528,556	13,250,519	8,620,702
Fuel oil and gas oil	Imp. gal.	378,617,237	214,713,936	9,023,940	38,520,155	40,349,193	140,620,931
	⌘	20,319,812	11,611,319	537,292	1,902,838	1,806,415	6,814,157
Tractor and engine distillate.....	Imp. gal.	...	3,376,371	3,973,573	18,745,489	10,870,027	...
	⌘	...	369,806	414,823	1,832,893	894,389	...
V. M. & P. or solvent naphtha.....	Imp. gal.	11,130,487	12,453,542	399,909	1,631,992	339,850	1,726,350
	⌘	1,320,989	1,426,398	68,192	214,661	53,662	203,176
Kerosene.....	Imp. gal.	7,508,725	17,741,385	497,053	4,229,088	3,345,258	...
	⌘	823,934	1,993,607	75,199	529,941	401,411	...
Lubricating oil.....	Imp. gal.	1,098,976	48,208,403	...	68,241	...	642,627
	⌘	232,438	11,475,763	...	20,472	...	136,301
Grease.....	Pound	19,279	18,987,663	...	21,745	...	7,219
	⌘	790	848,300	...	1,491	...	293
Asphalt.....	Imp. gal.	33,562,967	21,799,290	...	4,204,116	5,251,092	4,429,868
	⌘	2,813,671	1,996,912	...	366,427	485,540	429,560
Petroleum coke.....	Ton	1,583	56,406	...	1,547	23	...
	⌘	9,135	455,396	...	8,354	48	...
Other products.....	⌘	1,593,340	6,037,056	...	50,287	777,062	...
TOTAL - MADE FOR SALE	⌘	64,986,002	71,950,735	3,824,150	17,455,920	17,669,046	16,204,189
<u>Made for own use -</u>							
Gasoline	Imp. gal.	46,322	112,979	26,551	3,415	15,219	9,484
	⌘	5,871	28,804	9,113	374	3,184	1,975
Fuel oil and gas oil.....	Imp. gal.	35,919,302	49,033,680	1,982,830	8,414,366	287,665	9,810,936
	⌘	1,744,271	2,210,345	68,106	381,995	9,263	422,754
Kerosene.....	Imp. gal.	2,385	38,064	...	3,979	8,470	...
	⌘	287	4,258	...	489	986	...
Lubricating oil.....	Imp. gal.	...	60,871	...	...	...	3,977
	⌘	...	13,982	...	...	...	844
Petroleum coke.....	Ton	...	6,431	...	829	...	...
	⌘	...	34,653	...	1,616	...	...
Still gas.....	M. cu. ft.	2,809,698	4,121,759	...	969,943	960,264	113,110
	⌘	1,037,178	1,351,452	...	300,234	219,443	39,640
Other products.....	⌘	5,695	214,027	...	32,125	87	436
TOTAL - MADE FOR OWN USE	⌘	2,793,302	3,857,521	77,219	716,833	232,963	465,649
GRAND TOTAL.....	⌘	67,779,304	75,808,256	3,901,369	18,172,753	17,902,009	16,669,838

⌘ = Gross selling value at works.

Table 17 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1945

	Stocks on hand at refineries on December 31 1945	Increase or decrease over December 31 1944
	Imp. gal.	Imp. gal.
Crude oil and naphtha, in its natural state, from Canadian wells.....	13,052,560	- 1,078,609
Absorption gasoline, etc., from Canadian wells.....	669,340	- 319,935
Crude oil, imported - In its natural state.....	73,089,684	- 134,407,207
Not in its natural state.....	...	...
Total Crude.....	86,811,584	- 135,805,751
Gasoline (excluding imported casinghead or Canadian absorption gasoline).....	134,912,265	/ 21,267,005
Stove oil (40° - 42.5° A. P. I.).....	4,170,048	- 1,986,002
Gas and light fuel oil (20° - 40° A.P. I. excepting diesel)	27,975,449	/ 3,656,158
Diesel fuel oil.....	9,331,526	- 6,864,966
Residual fuel oil (10°-20° A. P. I.).....	62,196,933	/ 12,728
Fuel oil for use in cracking process.....	33,392,394	- 1,029,219
Tractor and engine distillate.....	6,786,037	- 672,257
V. M. & P. or solvent naphtha.....	4,776,011	/ 137,473
Kerosene.....	6,426,034	/ 2,543,068
Lubricating oils.....	7,487,036	/ 1,457,170
Total Refined.....	297,453,733	/ 18,521,158

Table 18 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1944 and 1945

Areas	1944		1945	
	Barrels of 35 Imp. gal.	Value \$	Barrels of 35 Imp. gal.	Value \$
New Brunswick.....	23,296	32,832	30,140	42,413
Ontario.....	125,067	296,420	113,325	268,478
Saskatchewan.....	...	...	14,374	15,362
Alberta.....	8,727,366	14,468,061	7,979,786	13,169,692
Northwest Territories.....	1,223,675	632,587	345,171	136,303
CANADA.....	10,099,404	15,429,900	8,482,796	13,632,248

Table 19 - WORLD CRUDE OIL PRODUCTION, 1943 - 1945 (Thousands of Barrels).

	1943	1944	1945
<u>North America -</u>			
United States.....	1,505,693	1,678,500	1,711,000
Canada.....	10,100	10,100	8,500
Mexico.....	33,795	36,000	41,500
Trinidad.....	22,000	24,000	24,000
	1,571,588	1,748,600	1,785,000
<u>South America -</u>			
Argentina.....	24,400	24,500	23,500
Colombia.....	10,580	22,500	25,000
Peru.....	14,500	21,000	18,500
Venezuela.....	182,550	267,000	276,000
Other.....	3,000	3,500	13,000
	235,030	338,500	356,000

Table 19 - WORLD CRUDE OIL PRODUCTION, 1943 - 1945 (Thousands of Barrels) - concluded

	1943	1944	1945
<u>Europe -</u>			
U. S. S. R.....	240,000	270,000	285,000
Romania.....	36,500	22,000	15,000
Other.....	16,325	27,000	26,500
	292,825	319,000	326,500
<u>Asia -</u>			
Bahrein.....	7,000	7,000	7,500
Iran.....	78,000	102,000	114,000
Iraq.....	25,350	29,000	35,000
Saudi Arabia.....	5,750	9,000	20,000
Other.....	24,800	36,000	11,000
	140,900	183,000	187,500
<u>Africa -</u>			
Egypt.....	9,100	9,000	9,000
	2,249,443	2,598,100	2,564,000

Note: Figures for Canada Revised
Source: "World Petroleum"

Table 20 - CRUDE PETROLEUM PRODUCED IN PRINCIPAL COUNTRIES OF THE WORLD, 1937 - 1941
(In thousands of barrels)

Country	1937	1938	1939	1940 ⁽¹⁾	1941 ⁽¹⁾
<u>North America -</u>					
Canada.....	2,944	6,966	7,838	8,591	10,125
Mexico.....	46,907	38,506	42,898	44,036	43,837
Trinidad.....	15,503	17,737	19,270	20,219	21,211
United States.....	1,279,160	1,214,355	1,264,962	1,353,214	1,404,182
Other North America.....	33	78	112	142	150
Total North America.....	1,344,547	1,277,642	1,335,080	1,426,202	1,479,505
<u>South America -</u>					
Argentina.....	16,355	17,076	18,613	20,609	21,763
Bolivia.....	122	226	215	288	230
Colombia.....	20,599	21,582	23,857	25,593	24,553
Ecuador.....	2,161	2,246	2,313	2,349	1,557
Peru.....	17,457	15,839	13,508	12,126	11,922
Venezuela.....	186,230	188,174	206,470	185,570	223,784
Total South America.....	242,924	245,143	264,976	246,535	283,809

Table 20 - CRUDE PETROLEUM PRODUCED IN PRINCIPAL COUNTRIES OF THE WORLD, 1937 - 1941 (concluded)
(In thousands of barrels)

Country	1937	1938	1939	1940 ⁽¹⁾	1941 ⁽¹⁾
<u>Europe -</u>					
Albania.....	619	752	934	1,497	1,381
Czechoslovakia.....	123	130	120	119	109
France.....	502	513	500	496	479
Germany.....	3,176	3,861	4,487	4,544	4,438
Austria.....	221	383	693	719	692
Hungary.....	16	288	1,103	1,755	2,474
Italy.....	110	101	91	57	46
Poland.....	3,716	3,763	3,898	3,891	3,319
Rumania.....	52,452	48,487	45,483	42,182	38,147
U. S. S. R. ⁽²⁾	193,241	204,956	216,866	218,600	238,150
Other Europe.....	4	9	10	10	10
Total Europe ⁽²⁾	254,180	263,243	274,185	273,870	289,245
<u>Asia -</u>					
Bahrein Island.....	7,762	8,298	7,589	7,074	6,794
Burma.....	7,848	7,538	7,873	7,731	7,762
India, British.....	2,162	2,488	2,327	2,250	2,270
Iran (Persia).....	77,804	78,372	78,151	66,900	64,000
Iraq.....	31,836	32,643	30,791	24,225	12,650
Japan (inc. Taiwan).....	2,488	2,511	2,654	2,639	2,659
Netherlands Indies.....	56,724	57,318	62,087	62,011	53,704
Sakhalin.....	3,656	3,821	4,000	4,000	4,000
Sarawak and Brunei.....	6,009	6,913	7,097	7,047	6,864
Saudi Arabia.....	65	495	3,934	5,365	5,871
Total Asia ⁽³⁾	196,354	200,397	206,503	189,242	166,574
<u>Africa -</u>					
Egypt.....	1,196	1,581	4,666	6,053	7,659
Other Africa.....	22	27	27	27	27
Total Africa.....	1,318	1,608	4,693	6,080	7,686
<u>Australia and New Zealand....</u>	4	4	3	3	3
<u>Undistributed.....</u>	4	4	4	14	14
GRAND TOTAL.....	2,039,231	1,988,041	2,085,444	2,141,946	2,226,836

(1) Approximate production. Data derived in part from "World Petroleum ?"

(2) Includes U. S. S. R. fields in Asia, other than Sakhalin.

(3) Exclusive of U. S. S. R. fields in Asia, other than Sakhalin, which are included with U. S. S. R. in Europe.

Source: Minerals Yearbook, 1941.

Table 21 - REFINERY PRODUCTION OF GASOLINE IN CANADA, 1931 - 1945

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
1945.....	466,557,710	486,459,245	953,016,955	51

Table 22 - APPARENT CONSUMPTION IN CANADA OF GASOLINE FUEL OIL, ENGINE DISTILLATE, KEROSENE AND LUBRICATING OIL, 1944 and 1945

	Fuel and gas oils (a)	Gasoline	Lubricating oils	Kerosene	Tractor and engine distillate
	(Imp. gal.)				
<u>1944</u>					
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
<u>1945</u>					
Production.....	927,294,171	953,016,955	51,433,779	33,374,407	36,966,595
Plus imports entered for consumption.....	53,350,962	78,550,544	10,515,900	13,039,459	356,012
	980,645,133	1,031,567,499	61,949,679	46,413,866	37,322,607
Less exports and re-exports..	32,615,854	66,195,397	953,514	6,604,122	...
	948,029,279	965,372,102	60,996,165	39,809,744	37,322,607
Plus decline in stocks (c)..	16,058,533	...	...	...	672,257
	964,087,812	965,372,102	60,996,165	39,809,744	37,994,864
Less increase in stocks (c)..	...	28,431,401 *	1,457,170	1,807,565	...
APPARENT CONSUMPTION....	964,087,812	936,940,701	59,538,995	38,002,179	37,994,864

(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 1943 the amount under this item was 27,816,694 gallons; in 1944 it was 23,215,553 gallons, and in 1945 it was 35,395,731 gallons.

Footnotes for Table 22 (con.)

- (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.

* Refinery Stocks Only.

Table 23 - APPARENT CONSUMPTION OF FUEL OIL, GASOLINE, KEROSENE, ENGINE DISTILLATE, AND LUBRICATING OILS, 1932 - 1945.

(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 avail-	54,534,585	26,128,986
1933	481,688,950	463,176,444	able	42,362,473	30,557,493
1934	503,060,605	524,622,641		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	917,478,253	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
1945	964,087,812	936,940,701	37,994,864	38,002,179	59,538,995

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1942 - 1945 (Gross Sales - sold for all purposes; net sales - sold for use in automobiles) - Computed from Gasoline Tax returns

Province	1942	1943	1944	1945
	(1000's of Imperial gallons)			
Prince Edward Island	6,629	7,881	9,295	4,716
Nova Scotia	40,886	42,465	43,462	37,727
New Brunswick	25,499	27,256	28,077	29,175
Quebec	149,917	147,048	178,879	168,304
Ontario	343,811	309,489	315,976	323,815
Manitoba	58,568	63,376	70,399	56,119
Saskatchewan	101,808	104,175	119,840	118,464
Alberta	97,502	114,970	120,159	102,754
British Columbia	73,187	86,932	84,383	74,622
TOTAL GROSS SALES	897,807	903,592	970,470	915,696
REFUNDS	287,525	373,747	395,614	253,079
TOTAL NET SALES	610,282	529,845	574,856	662,617

Table 25 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1942 - 1945

Month	1942	1943	1944	1945
(1000's of Imperial gallons)				
January.....	57,207	46,158	57,215	45,708
February.....	51,206	45,785	55,329	40,146
March.....	70,017	67,064	72,347	58,249
April.....	59,355	58,407	64,214	59,657
May.....	81,476	81,086	95,685	87,190
June.....	81,597	88,260	94,506	89,768
July.....	86,454	92,512	93,399	92,985
August.....	88,286	94,880	104,204	103,927
September.....	95,468	95,547	99,735	92,860
October.....	97,267	88,251	100,597	98,917
November.....	69,918	78,177	74,504	80,258
December.....	59,556	67,465	58,735	66,031
TOTAL.....	897,807	903,592	970,470	915,696

Table 26 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1945 and TOTALS for 1944

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
(1000's of Imperial gallons)					
January.....	148	2,187	1,558	8,443	17,143
February.....	74	1,863	1,223	7,403	16,119
March.....	128	2,845	1,794	9,615	24,853
April.....	248	2,525	1,615	11,209	21,953
May.....	472	3,275	2,307	14,787	25,379
June.....	550	3,599	2,719	16,664	28,495
July.....	526	3,669	2,935	17,587	31,010
August.....	650	4,201	3,143	19,099	34,881
September.....	568	3,680	2,798	17,283	32,071
October.....	560	3,675	3,638	17,577	32,610
November.....	460	3,359	2,928	16,156	31,980
December.....	332	2,849	2,517	12,481	27,321
TOTALS FOR 1945	4,716	37,727	29,175	168,304	323,815
TOTALS FOR 1944.	9,295	43,462	28,077	178,879	315,976

Table 27 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1945 and TOTALS FOR 1944 (Concluded)

Month	Manitoba	Saskatchewan	Alberta	British Columbia	TOTAL
(Thousands of Imperial Gallons)					
January.....	2,827	3,733	4,719	4,950	45,708
February.....	2,180	2,503	4,128	4,653	40,146
March.....	2,758	4,523	6,219	5,514	58,249
April.....	3,049	7,176	6,635	5,247	59,657
May.....	5,474	16,959	12,659	5,878	87,190
June.....	5,928	13,992	11,236	6,585	89,768
July.....	5,668	13,692	10,848	7,050	92,985
August.....	6,958	15,614	11,559	7,822	103,927
September.....	5,978	13,262	10,148	7,072	92,860
October.....	7,653	14,307	11,682	7,215	98,917
November.....	4,387	7,526	7,020	6,442	80,258
December.....	3,258	5,177	5,901	6,194	66,031
TOTALS FOR 1945	56,119	118,464	102,754	74,622	915,696
TOTALS FOR 1944	70,399	119,840	120,159	84,383	970,470

Table 28 - NET SALES (FOR USE IN AUTOMOBILES) OF GASOLINE IN CANADA, BY PROVINCES, 1942-1945

Province	1942	1943	1944	1945
	(Thousands of Imperial gallons)			
Prince Edward Island	2,492	2,687	3,006	3,576
Nova Scotia	23,596	21,844	22,820	27,190
New Brunswick	15,990	15,872	17,716	22,943
Quebec	126,636	116,966	127,811	143,268
Ontario	273,341	213,186	228,469	262,634
Manitoba	34,551	32,492	38,009	39,039
Saskatchewan	44,503	40,767	46,924	53,752
Alberta	47,644	44,904	47,474	56,723
British Columbia	44,529	41,127	42,627	53,492
CANADA	610,282	529,845	574,856	662,617

Table 29 - REVENUES FROM GASOLINE TAXES, BY PROVINCES, 1942-1945

Province	1942	1943	1944(*)	1945(*)
	\$	\$	\$	\$
Prince Edward Island	351,579	325,988	309,752	364,663
Nova Scotia	2,893,101	2,868,278	3,446,021	2,906,639
New Brunswick	2,081,277	2,101,073	2,122,312	2,101,072
Quebec	11,506,921	11,803,248	12,388,342	11,461,400
Ontario	26,608,291	26,608,291	26,608,291	26,608,291
Manitoba	2,678,149	2,678,149	2,678,149	2,681,556
Saskatchewan	3,397,280	3,397,279	3,397,280	4,390,333
Alberta	3,524,625	3,645,895	3,808,155	4,463,196
British Columbia	3,763,626	3,763,626	3,763,626	4,330,543
Yukon	19,562	23,505	18,840	17,268
CANADA	56,824,411	57,215,332	58,540,768	59,324,961

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

Table 30 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1932-1945

Year	From	From	Year	From	From
	motor vehicle registrations	gasoline taxes		motor vehicle registrations	gasoline taxes
	\$	\$		\$	\$
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(*)	57,215,332
1937	25,993,905	38,378,947	1944	30,584,711	58,540,768
1938	26,230,196	41,247,688	1945	31,856,834	59,324,961

(*) Revised.

Table 31 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1942-1945

Province	1942	1943	1944	1945
	(Number)			
Prince Edward Island	7,537	8,032	8,412	8,835
Nova Scotia	58,872	59,194	57,933	56,699
New Brunswick	37,758	40,205	39,570	41,577
Quebec	222,622	222,676	224,042	228,681
Ontario	715,380	691,615	675,057	662,719
Manitoba	93,147	93,494	93,297	92,758
Saskatchewan	130,040	133,839	140,992	140,257
Alberta	125,482	127,559	127,416	130,153
British Columbia	132,893	134,691	135,090	134,788
Yukon	422	540	758	614
CANADA	1,524,153	1,511,845	1,502,567	1,497,081

Table 32 - 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 ...	6,744	2,043	8	40	...	8,835
Nova Scotia	40,314	15,049	350	586	400	56,699
New Brunswick	28,794	12,155	221	259	148	41,577
Quebec	171,240	52,403	1,629	2,834	575	228,681
Ontario	555,461	99,618	1,895	5,745	...	662,719
Manitoba	69,268	22,609	126	694	61	92,758
Saskatchewan	96,268	42,939	261	772	17	140,257
Alberta	92,334	36,262	815	742	...	130,153
British Columbia	99,421	32,185	676	2,506	...	134,788
Yukon	214	343	7	16	34	614
CANADA	1,160,058	315,606	5,988	14,194	1,235	1,497,081

Table 33 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1941-1945
(As reported by Distributors and Importers - Imperial Gallons - Calendar Years)

Area	Domestic and building heating	Industrial	Tractor fuel oil, not lubricant	Railways, principally locomotive fuel	Bunkering including distributors' tankers	TOTAL DELIVERIES	Inventory on December 31 at refinery warehouses and consumers' storage
	(Thousands of Imperial gallons)						
<u>1945</u>							
Prince Edward Island, Nova Scotia and New Brunswick	13,784	29,745	479	440	134,600	179,048	22,776
Quebec	62,252	71,948	4,490	4,078	79,837	222,605	62,060
Ontario	42,634	146,165	11,190	4,384	13,845	218,218	106,462
Manitoba	1,075	8,486	17,038	677	78	27,354	2,932
Saskatchewan..	1,702	18,226	18,167	9,133	...	47,228	12,166
Alberta and Northwest Territories..	92	5,791	13,771	39,209	297	59,180	14,021
British Columbia and Yukon	22,298	62,577	3,381	18,496	72,884	179,636	30,323
TOTAL, 1945..	143,837	342,938	68,516	76,417	301,541	933,249	250,738
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

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 34 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION AS FUEL, BY PROVINCES, 1941-1945

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>1945</u>					
New Brunswick, Prince Edward Island and Nova Scotia)	2,785	...	267	3,052	2,048
Quebec	4,708	...	1,660	6,368	4,221
Ontario	5,868	530	2,679	9,177	4,873
Manitoba	1,592	64	726	2,382	401
Saskatchewan	2,358	72	970	3,400	1,536
Alberta and Northwest Territories	2,506	26	408	2,940	1,146
British Columbia and Yukon	1,190	15	297	1,502	1,096
TOTAL, 1945	21,107	707	7,007	28,821	15,322
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

Table 35 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1944 and 1945 (Used as fuel only - not as manufacturing materials)

Fuel for Domestic and Industrial Heating	1944	1945
	(tons)	
New Brunswick and Prince Edward Island .....	...	236
Nova Scotia	300	423
Quebec	669	58,475
Ontario	23,923	...
Manitoba .....	...	639
Saskatchewan	724	...
Alberta and Northwest Territories .....	...	82
British Columbia and Yukon .....	...	...
TOTAL	25,616	59,855

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) 1945

Sixteen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1945. Ten of these plants were located in Ontario, 3 in Quebec and 3 in British Columbia.

They gave work to a monthly average of 105 people who were paid \$211,338 as salaries or wages. Purchases of processing materials and containers cost \$968,310 and the selling value of products totalled \$1,450,150. Included in the year's output were lubricating oils at \$1,157,577, lubricating greases at \$157,910, and soaps or soap powders at \$42,039.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 51,433,779 gallons in 1945 against 47,769,440 gallons in 1944. Corresponding figures for lubricating greases totalled 20,178,651 pounds in 1945 and 21,106,113 pounds in 1944. 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 1945 amounted to 59,538,995 gallons.

Table 36 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1930-1945

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
			\$	\$	\$	\$
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	309,523	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
1945	16	105	211,338	6,356	968,310	1,450,150

Table 37 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1944 and 1945

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>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
<u>1945</u>						
Ontario	10	71	140,500	2,136	871,582	1,234,276
Quebec	3	24	58,487	3,373	63,266	138,177
British Columbia	3	10	12,351	847	33,462	77,697
CANADA	16	105	211,338	6,356	968,310	1,450,150

Table 38 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1944 and 1945

Province	Average Number of Employees					TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages						
	Male	Female	Male	Female					
<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	
<u>1945</u>									
Ontario	31	11	24	5	71	101,559	38,941	140,500	
Other provinces..	16	3	13	2	34	49,040	21,798	70,838	
CANADA	47	14	37	7	105	150,599	60,739	211,338	

Table 39 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1944 and 1945

Month	Ontario		Other Provinces		C A N A D A	
	1944	1945	1944	1945	1944	1945
January	28	28	15	10	31	38
February	31	27	17	10	33	37
March	30	30	16	12	34	42
April	29	30	15	16	34	43
May	29	30	16	15	35	43
June	34	29	17	15	34	44
July	37	30	19	13	42	43
August	34	29	18	15	40	44
September	31	27	16	14	37	41
October	30	27	16	12	37	39
November	32	27	15	13	36	40
December	31	27	13	12	31	39
AVERAGE	33	29	17	15	36	44

Table 40 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Coal, anthracite	ton	18	275	20	273
Coal, bituminous - Canadian	ton	...	...	13	176
Imported	ton	131	1,482	221	2,543
Coke	ton	10	142	9	108
Gasoline (includes gasoline used in cars and trucks)	Imp.gal.	262	92	430	141
Kerosene or coal oil	Imp.gal.	...	...	...	...
Fuel oil	Imp.gal.	2,378	838	1,800	200
Wood	cord	51	624	49	692
Manufactured gas	M cu.ft.	88	86	823	907
Electricity purchased	K.W.H.	79,820	1,537	75,000	1,316
TOTAL .....	...	...	5,076	...	6,356

Table 41 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1944 and 1945

	1 9 4 4		1 9 4 5	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Gasoline, gas and oil engines	1	25	2	29
Steam engines and turbines	2	8	2	8
Electric motors run by purchased power	23	48	30	78
TOTAL	26	81	34	115
Stationary power boilers	1	8	1	8

Table 42 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1944 and 1945

Material	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Compounding stocks (oils, etc.)	Imp.gal.	1,431,261	511,831	1,536,850	589,430
Tallow and grease	lb.	174,151	20,875	137,817	16,871
All other materials .....	...	...	140,361	...	155,194
Shipping containers .....	...	...	198,226	...	206,815
TOTAL .....	...	...	871,293	...	968,310

Table 43 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1944 and 1945

Product	Unit of measure	1944		1945	
		Quantity	Gross selling value at works \$	Quantity	Gross selling value at works \$
Greases, lubricating ...	pound	1,252,890	187,240	1,117,561	157,910
Oils, lubricating	gallon	1,201,271	1,080,979	1,350,684	1,157,577
Soaps and powders .....	...	...	40,449	...	42,039
All other products .....	...	...	113,416	...	92,624
TOTAL .....	...	...	1,422,084	...	1,450,150

Table 44 - SALES OF LUBRICATING OILS IN CANADA, 1944 and 1945 (As reported by principal dealers)

	Motor transport and tractor crankcase oil	Aircraft crankcase oils	Other oils (industrial, etc.)	TOTAL ALL PURPOSES
	(Imperial Gallons)			
1944				
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
1945				
Prince Edward Island				
Nova Scotia	2,374,898	161,323	1,984,230	4,520,451
New Brunswick				
Quebec	5,029,160	214,041	4,183,125	9,426,326
Ontario	10,321,709	334,625	11,392,679	22,049,013
Manitoba	2,458,819	124,935	944,339	3,528,093
Saskatchewan	4,356,886	35,514	428,100	4,818,500
Alberta	3,711,745	90,077	663,728	4,465,550
British Columbia (including Yukon)	2,448,083	187,420	1,726,435	4,361,938
TOTAL - CANADA	30,701,300	1,145,935	21,322,636	53,169,871

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1945

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	Type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
Nova Scotia - Imperial Oil Limited	Imperoyal	34,000	S - C	Combination unit	11,600
New Brunswick - New Brunswick Gas & Oilfields Ltd.	Weldon	250	S	...	...
Quebec - British American Oil Co. Limited	Montreal East	12,000	S - C	Liquid and vapour phase	7,500
Imperial Oil Limited	Montreal	21,000	S - C	Tube and tank	9,800
McColl-Frontenac Oil Co. Limited	Montreal East	16,000	S - C	2 Jenkins, 1 Kellogg and 1 own make	12,000
Shell Oil Company of Canada Ltd.	Montreal East	10,000	S - C	Dubbs Selective	7,500

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1945
(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>Ontario -</u>					
British American Oil Co. Limited	Toronto	6,000	S - C	Liquid and vapour phase	3,000
Canadian Oil Companies Limited	Petrolia	3,700	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	12,000	S - C	Combination unit and Jenkins Stills	7,000
British American Oil Co. Limited	Clarkson	8,250	S	...	...
<u>Manitoba -</u>					
Anglo-Canadian Oils Ltd.	Brandon	2,000	S - C	Dubbs	750
North Star Oil Limited	St. Boniface	1,500	S - C	Dubbs	650
Radio Oil Refineries Ltd.	East Kildonan	1,000	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	2,300	S - C	Dubbs	800
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	400	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	10,300	S - C	Combination unit	4,000
<u>British Columbia -</u>					
Imperial Oil Limited	Ioco	12,000	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	5,000	S	...	...
<u>Northwest Territories -</u>					
Imperial Oil Limited	Norman Wells	840	S	...	...

S - Skimming

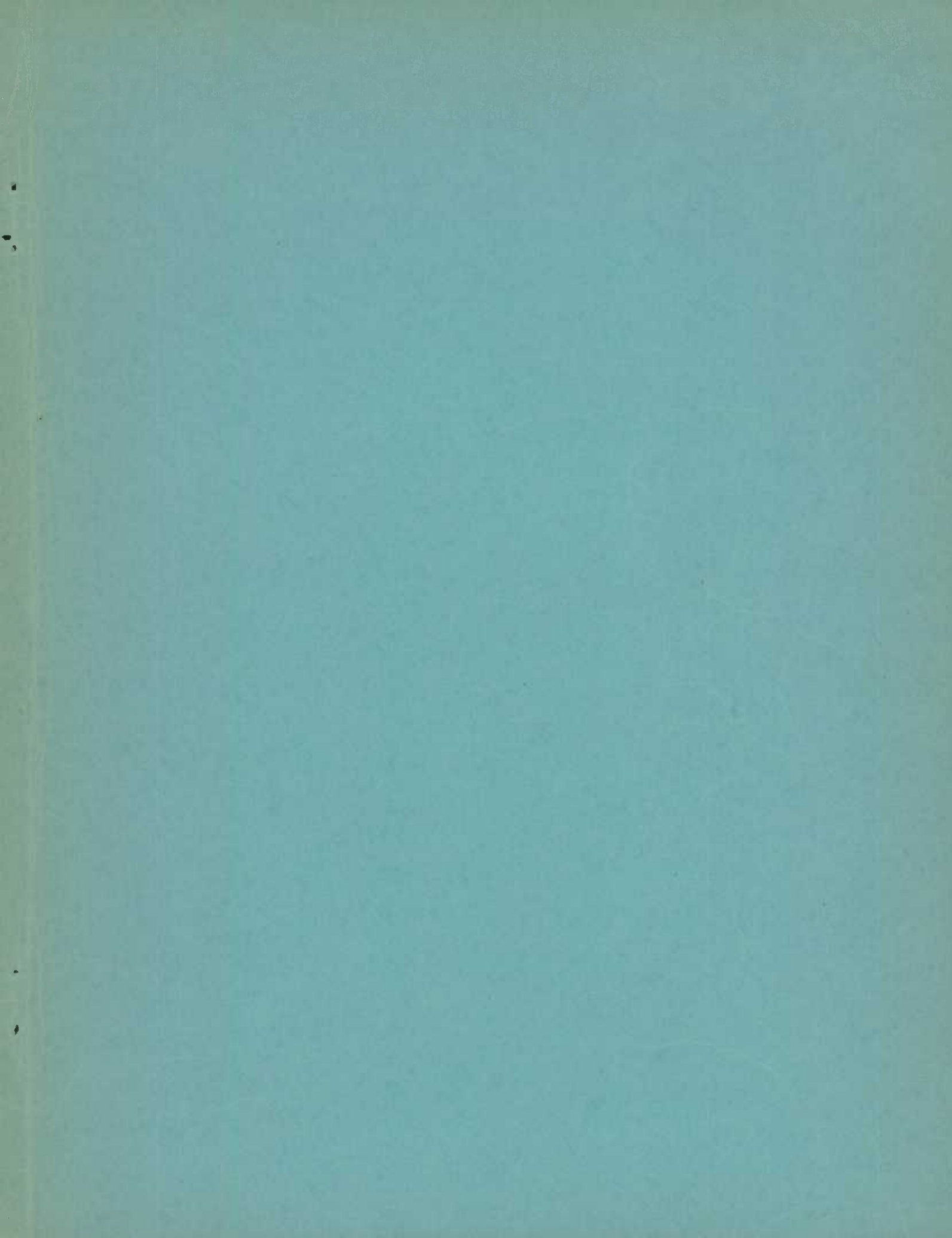
C - Cracking

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 Company Limited Ontario Gasoline & Oil Limited Tide Water Oil Company of Canada, Ltd. Waddell, R. Ensign Industrials Limited	414 Eastern Ave., Toronto Colebrook Bowmanville 226 Weston Road, Toronto 35 Fraser Ave., Toronto 120 Chatham St., Hamilton 45 Dickens Ave., Toronto 201 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 550 Beatty St., Vancouver 5405 W. Boulevard, Vancouver

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