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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

1946



OTTAWA

1948

Price 50 cents

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Annual Industry ReportManufacturers Of The Non-Metallic Minerals GroupPETROLEUM PRODUCTS INDUSTRY, 1946

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 13 blending plants, or a total of 43 works, reported under this category in 1946 and the aggregate value of production was \$223,425,380, an increase of 10.8 per cent over the 1945 total of \$201,683,679.

Output figures for 1946 included \$221,702,376 for petroleum refineries and \$1,723,004 for concerns engaged in blending oils and greases, against corresponding totals in 1945 of \$200,233,529 and \$1,450,150 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, 1940-1946

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>						
1940	38	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941	35	5,317	10,186,382	7,263,685	125,258,314	155,389,872
1942	35	5,835	11,361,200	7,072,252	121,177,036	162,628,828
1943	35	5,995	12,595,891	8,234,286	137,492,025	185,830,862
1944	32	6,699	14,121,064	8,997,491	152,687,371	209,125,332
1945	30	6,670	13,679,972	9,100,033	150,185,119	200,233,529
1946	30	7,048	14,657,496	10,153,100	154,714,683	221,702,376
<u>Compounding Oils and Greases</u>						
1940	11	96	192,214	5,309	557,632	1,200,303
1941	14	89	140,464	5,005	723,923	1,245,623
1942	18	85	146,052	6,722	747,220	1,087,687
1943	17	90	152,841	6,402	667,859	1,140,133
1944	16	110	196,875	5,076	871,293	1,422,084
1945	16	105	211,338	6,356	968,310	1,450,150
1946	13	97	191,645	5,925	1,104,061	1,723,004
<u>TOTAL</u>						
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
1946	43	7,145	14,849,141	10,159,025	155,818,744	223,425,380

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, 1945 and 1946

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>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
<u>1946</u>						
Quebec	6	1,465	3,076,642	2,706,238	42,101,046	63,510,289
Ontario	15	3,252	6,871,860	4,490,976	56,506,009	84,920,432
Manitoba	3	228	319,213	123,877	3,525,160	4,242,201
Saskatchewan	7	576	1,160,143	817,502	15,619,338	19,705,687
Alberta	4	595	1,194,612	600,150	14,732,788	19,941,937
British Columbia	5	446	985,391	603,706	11,182,019	15,206,344
Nova Scotia	1)					
New Brunswick	1)	583	1,241,280	816,576	12,152,384	15,898,490
Northwest Territories	1)					
CANADA	43	7,145	14,849,141	10,159,025	155,818,744	223,425,380

(a) THE PETROLEUM REFINING INDUSTRY, 1946

Thirty petroleum refineries operating in Canada during 1946 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. The operating refineries had a capacity of 245,865 barrels of crude oil per day, of which Ontario had 77,950 barrels or 31.7 per cent; Quebec, 71,000 barrels or 28.8 per cent; Nova Scotia, 34,000 barrels or 14 per cent; British Columbia, 21,800 barrels or 8.8 per cent; Saskatchewan, 18,175 barrels or 7 per cent; Alberta, 17,300 barrels or 7 per cent; Manitoba 4,500 barrels or 2 per cent; the Northwest Territories 840 barrels or .3 per cent, and New Brunswick 300 barrels. Location, type and capacity for each of these refineries is recorded in the directory at the end of this report.

During the year, 2,227,789,282 gallons of imported crude oil and 250,566,210 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 2,478,355,492 gallons was put through Canadian refineries, this amounting to about 78 per cent of the rated capacity. Of the total crude input, about 55 per cent was imported from the United States and nearly 35 per cent from other countries, while about 10 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 \$144,293,780. Stocks of crude oil held at the refineries on December 31 amounted to 150,382,388 gallons.

Refinery production of gasoline in 1946 amounted to 1,017,620,703 gallons, and in addition the refineries used for blending about 44,390,680 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1946 was 6 per cent over 1945 which, in turn, was 2 per cent under 1944. The refinery selling value of the gasoline made during the year was \$117,836,804. Stocks of gasoline held by the refineries on December 31 included 128,793,932 gallons of straight run or cracked gasoline and 8,602,401 gallons of imported casinghead gasoline. In 1946 there was an output of 15,197,350 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 176,658,361 gallons during 1946, which, added to the production of 1,017,620,703 gallons plus the decrease in producers', distributors', and consumers' stocks of 5,586,158 gallons and less the exports of 12,384,357 gallons, made an apparent Canadian consumption of 1,187,480,865 gallons. Actual sales as reported to the Bureau on a monthly basis amounted to 1,143,634,000 gallons.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 1,053,323,362 gallons, of which 945,642,459 gallons were made for sale and 107,680,903 gallons for use as fuel in the producing plant. Imports amounted to 109,544,452 gallons and exports to 20,277,614 gallons. Stocks of fuel oil and distillate at the end of the year stood at 129,382,514 gallons, or about 25,708,558 gallons more than in 1945. Output of tractor and engine distillate was 37,576,831 gallons in 1946, imports amounted to 2,174,540 gallons, and producers' stocks decreased 453,199 gallons. The apparent consumption of fuel oils and distillate in Canada as calculated from the above figures, amounted to 1,157,086,212 gallons.

Monthly employment in the refining industry averaged 7,048 persons who received \$14,657,496 in salaries and wages. Expenditures for fuel and electricity amounted to \$10,153,100 and \$154,714,683 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1943 - 1946

Province	1 9 4 3		1 9 4 4		1 9 4 5		1 9 4 6	
	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	300
Quebec	4	67,000	4	63,000	4	59,000	4	71,000
Ontario	6	76,250	6	75,450	6	75,450	6	77,950
Manitoba	4	4,150	3	4,000	3	4,500	3	4,500
Saskatchewan	8	16,825	7	17,075	7	18,075	7	18,175
Alberta	7	18,400	6	19,000	4	18,100	4	17,300
British Columbia	3	24,500	3	24,800	3	21,000	3	21,800
Northwest Territories	1	840	1	840	1	840	1	840
CANADA	35	242,215	32	238,415	30	231,215	30	245,865

Note: 1 barrel = 35 Imperial Gallons.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1937 - 1946

Year	Number of refin- eries	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
			\$	\$	\$	\$
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
1946	30	7,048	14,657,496	10,153,100	154,714,683	221,702,376

Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY BY PROVINCES, 1945 and 1946

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>1 9 4 5</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

1 9 4 6

Quebec	4	1,446	3,041,517	2,703,218	42,058,476	63,422,976
Ontario	6	3,179	6,725,647	4,488,678	55,466,162	83,324,141
Manitoba	3	228	319,213	123,877	3,525,160	4,242,201
Saskatchewan	7	576	1,160,143	817,502	15,619,338	19,705,687
Alberta	4	595	1,194,612	600,150	14,732,788	19,941,937
British Columbia ...	3	441	975,084	603,099	11,160,375	15,166,944
Other provinces (x).	3	583	1,241,280	816,576	12,152,384	15,898,490
CANADA	30	7,048	14,657,496	10,153,100	154,714,683	221,702,376

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

Table 6 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1945 and 1946

Province	Average number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1 9 4 5</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

1 9 4 6

Quebec	236	32	1,169	9	1,446	726,460	2,315,057	3,041,517
Ontario	495	104	2,549	31	3,179	1,668,117	5,057,530	6,725,647
Manitoba	39	12	172	5	228	87,826	231,387	319,213
Saskatchewan ...	85	18	469	4	576	274,270	885,873	1,160,143
Alberta	84	15	493	3	595	257,163	937,449	1,194,612
British Columbia	54	12	373	2	441	209,931	765,153	975,084
Other provinces.	59	20	490	14	583	205,498	1,035,782	1,241,280
CANADA	1,052	213	5,715	68	7,048	3,429,265	11,228,231	14,657,496

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Table 7 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1946 (On the last work-day of each month)

Month	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other provinces	CANADA
January	1,074	2,481	178	444	450	359	454	5,440
February	1,072	2,522	173	438	454	350	458	5,467
March	1,119	2,493	172	450	457	353	476	5,520
April	1,163	2,486	174	495	469	358	488	5,633
May	1,180	2,507	182	489	485	373	506	5,722
June	1,189	2,605	184	481	510	384	557	5,910
July	1,214	2,633	192	493	555	392	557	6,036
August	1,235	2,642	180	502	567	385	549	6,060
September	1,190	2,610	175	477	534	380	511	5,877
October	1,223	2,653	169	480	496	381	510	5,912
November	1,240	2,664	172	473	493	393	502	5,937
December	1,242	2,657	175	447	484	390	482	5,877
AVERAGE	1,178	2,580	177	473	496	375	504	5,783

Table 8 - FUEL (x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1945 and 1946

Kind	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian	ton	...	...	...	...
Imported	ton	9,987	71,053	13,286	93,349
Coke, including petroleum coke	ton	7,253	36,206	4,160	20,206
Gasoline	Imp.gal.	203,877	47,847	284,719	64,585
Kerosene	Imp.gal.	52,236	5,472	5,095	529
Fuel oil	Imp.gal.	108,383,202	4,849,346	107,549,012	5,089,508
Wood	cord	66	394	70	560
Gas - Manufactured, including still gas	M cu.ft.	9,010,774	2,892,567	10,032,080	3,578,422
Natural	M cu.ft.	2,681,280	235,469	2,743,748	268,105
Other fuel .....	...	...	236,965	...	281,808
Electricity purchased	K.W.H.	103,789,244	724,714	108,344,577	756,028
TOTAL .....	...	...	9,100,033	...	10,153,100
Electricity generated for own use	K.W.H.	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 9 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1	9	4	5
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 9 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1945 and 1946 (Concluded)

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 6</u>				
Steam engines	213	7,208	50	1,091
Steam turbines	413	22,131	25	2,407
Diesel engines	12	1,302	1	82
Gasoline, gas and oil engines (except diesel)	37	2,570	2	75
Total primary equipment	675	33,211	78	3,655
Electric motors run by purchased power	2,227	39,222	87	1,400
TOTAL	2,902	72,433	165	5,055
Electric motors run by power generated by primary equipment above	51	279	...	...
Stationary power boilers	145	40,246	7	815
Motor-generator sets	8	815	1	53

Table 10 - MATERIALS USED IN PETROLEUM REFINERIES, 1945 and 1946

Material	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Crude oil (under 60° A. P. I.) in its natural state, from Canadian wells	Imp. gal.	261,649,701	14,448,892	236,210,031	15,366,821
Absorption gasoline, etc., from Canadian wells (run to stills).	Imp. gal.	11,460,721	666,550	14,356,179	827,399
Crude oil, in its natural state, imported, (run to stills)-					
From United States.....	Imp. gal.	1,116,775,550	67,573,181	1,351,879,093	83,182,316
From Other Countries	Imp. gal.	915,009,313	55,323,332	874,210,116	44,830,178
Crude oil, not in its natural state (run to stills)	Imp. gal.	...	...	1,700,073	87,066
Benzol for blending	Imp. gal.	2,891,487	431,981	2,256,556	325,420
Phenol	pound	1,007,329	141,610	754,004	101,276
Sulphuric acid, 66° Bé	pound	39,989,522	437,370	38,480,882	408,145
Sulphur	pound	102,958	2,659	135,379	3,361
Caustic soda	pound	8,503,517	235,011	7,545,781	225,798
Soda ash	pound	510,755	11,742	432,463	9,786
Litharge	pound	246,523	21,325	351,612	30,030
Fuller's earth, bentonite and other clays	pound	28,604,000	685,761	25,626,000	570,909
Compounding materials .....	...	...	362,323	...	384,218
Tetraethyl fluid	c.c.	2,002,251,865	4,243,451	2,779,052,387	4,154,307
Blending stocks for aviation gas	Imp. gal.	11,192,158	3,515,960	10,065,617	1,486,496
Other materials	1,484,642	...	1,733,720
Shipping containers	599,329	...	987,437
TOTAL	150,185,119	...	154,714,683

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Table 11 - 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.	957,775	4,170,078	20,744,692	12,024,952	193,479,454	4,833,080
\$	38,311	295,433	1,866,288	964,700	12,126,738	75,351
Absorption gasoline, etc. from Canadian wells (run to still) gal.	...	...	...	1,847,179	12,509,000	...
\$	...	...	...	147,286	680,113	...
Crude oil, in its natural state, imported (run to still) -						
(a) From United States..... gal.	84,481,015	862,016,988	16,989,931	176,839,417	13,938,000	197,613,742
\$	5,580,902	50,604,072	1,555,215	14,062,671	920,267	10,459,189
(b) From Other Countries .. gal.	870,078,991	1,159,830	...	...	...	2,971,295
\$	44,545,028	75,874	...	...	...	209,276
Crude oil, not in its natural state, imported.... gal.	...	...	...	...	...	1,700,073
\$	...	...	...	...	...	87,066
Benzol for blending gal.	901,305	1,355,251	...	...	...	...
\$	130,829	194,591	...	...	...	...
Sulphuric acid 66° Bé lb.	1,427,874	26,741,237	76,800	1,515,445	6,352,304	2,367,222
\$	15,765	274,439	2,481	20,898	70,550	24,012
Sulphur lb.	35,005	49,814	660	...	43,600	6,300
\$	886	1,097	25	...	1,244	109
Caustic soda lb.	3,330,113	2,234,325	196,432	214,053	1,221,998	348,860
\$	97,213	55,519	8,231	6,951	45,873	12,011
Soda ash lb.	52,800	17,350	600	288,243	58,970	14,500
\$	1,212	392	11	6,372	1,472	327
Litharge lb.	42,601	140,347	3,081	3,017	154,400	8,166
\$	3,681	11,210	331	315	13,785	708
Fullers' earth and clay lb.	238,000	25,084,000	...	54,000	28,000	224,000
\$	3,106	562,027	...	1,861	617	3,298
Compounding materials \$	8,367	356,353	...	3,689	1,782	14,027
Tetraethyl fluid \$	1,701,355	1,401,131	82,664	307,741	354,960	306,456
Other materials \$	1,966,623	671,055	9,914	96,854	515,387	61,659
Shipping containers ..... \$	...	962,969	...	...	...	24,468
TOTAL \$	54,093,278	55,466,162	3,525,160	15,619,338	14,732,788	11,277,957

\$ = Cost at works.

Table 12 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1932 - 1946

Year	Canadian (a)	Imported (b) (Imperial gallons)	TOTAL
1932	37,340,321	892,773,734	930,114,055
1933	32,404,139	1,011,806,711	1,044,210,850
1934	41,461,763	1,068,048,580	1,109,510,343
1935	40,785,473	1,155,625,970	1,196,411,443
1936	42,792,311	1,243,670,584	1,286,462,895
1937	90,004,669	1,343,577,025	1,433,581,694
1938	236,492,200	1,182,166,965	1,418,659,164
1939	262,198,884	1,307,704,411	1,569,903,295
1940	302,235,830	1,443,258,451	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	1,982,671,799	2,283,207,870
1945	274,831,125	2,031,784,863	2,306,615,988
1946	250,566,210	2,227,789,282	2,478,355,492

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

(b) Includes reduced crude.

Table 13 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1946 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp.gal.	45,690,454
	\$	5,062,873
Imported natural casinghead gasoline used for blending during the year	Imp.gal.	44,390,680
Total stocks of imported natural casinghead gasoline at the end of the year .	Imp.gal.	8,602,401

Table 14 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1945 and 1946

Product	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
		\$		\$	
Made for sale -					
Gasoline (1) Straight run- Aviation	Imp.gal.	19,174,916	3,681,285	7,996,196	1,382,490
Standard	Imp.gal.	447,191,539	50,994,481	514,458,339	59,536,928
By cracking (2) Aviation	Imp.gal.	...	...	...	...
Standard	Imp.gal.	486,436,530	56,060,726	494,882,046	56,858,859
Stove oil (40°-42.5° A.P.I.)	Imp.gal.	39,408,805	2,401,840	88,212,202	5,968,044
Gas and light fuel oil (20°-40° A.P.I., except diesel)	Imp.gal.	126,893,270	8,038,426	189,547,916	11,928,836
Diesel fuel oil (all fuel oil sold under this name)	Imp.gal.	116,571,599	6,515,379	129,490,547	7,742,974
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	538,971,718	26,036,188	538,391,794	27,661,201
Tractor and engine distillate	Imp.gal.	36,965,460	3,511,911	37,576,831	4,009,401
V. M. and P. or solvent naphtha ...	Imp.gal.	27,682,130	3,287,078	24,785,599	3,409,599
Kerosene	Imp.gal.	33,321,509	3,824,092	30,197,702	3,319,742
Lubricating oil	Imp.gal.	50,018,247	11,864,974	54,958,798	13,761,569
Lubricating grease	pound	19,035,906	850,874	22,112,219	991,334
Asphalt	Imp.gal.	69,247,333	6,092,110	91,334,563	8,099,694
Petroleum coke	ton	59,559	472,933	65,443	343,761
Other products (3) .....	...	...	8,457,745	...	7,481,192
TOTAL - MADE FOR SALE .....	...	...	192,090,042	...	212,495,624
Made for own use -					
Gasoline - Straight run	Imp.gal.	191,255	45,891	243,343	52,957
By cracking process	Imp.gal.	22,715	3,430	40,779	5,570
Stove oil	Imp.gal.	1,795	92	9,354	520
Gas and light fuel oil (20°-40° A.P.I.)	Imp.gal.	112,012	5,289	69,830	4,327
Diesel fuel oil	Imp.gal.	124,359	6,887	475,627	31,977
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	105,210,613	4,824,466	107,126,092	5,077,023
Tractor and engine distillate	Imp.gal.	1,135	71	...	...
Kerosene	Imp.gal.	52,898	6,020	45,692	5,104
Lubricating oil	Imp.gal.	64,848	14,826	128,895	29,721
Asphalt	Imp.gal.	55,519	4,917	60,178	5,315
Petroleum coke	ton	7,260	36,269	4,172	19,345
Still gas	M cu.ft.	8,974,774	2,947,947	10,032,080	3,690,804
Other products .....	...	...	247,382	...	284,089
TOTAL - MADE FOR OWN USE .....	...	...	8,143,487	...	9,206,752
GRAND TOTAL .....	...	...	200,233,529	...	221,702,376

(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 15 - PRODUCTS MADE IN PETROLEUM REFINERIES, BY PROVINCES, 1946

Product	Unit of measure	Eastern Provinces	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories
<u>Made for sale -</u>							
Gasoline	Imp. gal.	361,925,883	350,736,360	20,850,708	105,898,464	121,010,685	56,913,481
	§	42,484,860	37,378,295	2,962,889	13,755,739	14,007,611	7,188,883
Fuel oil and gas oil	Imp. gal.	446,170,659	271,386,703	9,002,610	43,924,161	50,569,406	124,588,920
	§	25,582,318	15,502,247	571,296	2,458,810	2,476,477	6,709,907
Tractor and engine distillate	Imp. gal.	...	6,661,634	3,952,706	15,283,293	11,679,198	...
	§	...	725,814	471,536	1,704,429	1,107,622	...
V. M. & P. or solvent naphtha	Imp. gal.	8,523,528	11,857,623	318,742	1,690,512	899,023	1,496,171
	§	1,186,523	1,515,473	55,424	259,445	137,172	255,562
Kerosene	Imp. gal.	5,518,172	16,564,656	480,923	3,700,345	3,933,606	...
	§	549,039	1,693,027	75,544	485,171	516,961	...
Lubricating oil	Imp. gal.	1,071,399	53,234,184	...	85,695	...	567,520
	§	215,176	13,400,882	...	25,708	...	119,803
Grease	Pound	19,130	22,061,205	...	787	...	31,097
	§	413	989,142	...	551	...	1,228
Asphalt	Imp. gal.	45,592,161	28,670,005	...	3,534,711	6,570,838	6,966,848
	§	3,892,109	2,644,184	...	305,556	600,994	656,851
Petroleum coke	Ton	3,281	60,285	...	1,877	...	...
	§	14,272	317,551	...	11,938	...	...
Other products	§	1,548,687	5,009,011	...	...	834,042	89,452
TOTAL - MADE FOR SALE ..	§	75,473,397	79,175,626	4,136,689	19,007,347	19,680,879	15,021,686
<u>Made for own use -</u>							
Gasoline	Imp. gal.	61,129	168,593	...	5,201	18,856	20,343
	§	7,622	39,590	...	647	5,008	5,660
Fuel oil and gas oil	Imp. gal.	35,204,570	50,398,639	2,410,174	8,817,934	264,601	10,584,985
	§	1,734,738	2,337,844	105,512	414,241	10,943	510,569
Kerosene	Imp. gal.	6,657	14,062	...	3,098	21,875	...
	§	445	1,406	...	407	2,846	...
Lubricating oil	Imp. gal.	...	124,674	...	...	...	4,221
	§	...	28,830	...	...	...	891
Petroleum coke	Ton	...	3,469	...	703	...	...
	§	...	17,975	...	1,370	...	...
Still gas	M cu.ft.	3,904,304	4,123,562	...	844,454	995,342	164,418
	§	1,668,557	1,444,113	...	279,778	240,269	58,087
Other products	§	5,620	278,757	...	1,897	1,992	1,138
TOTAL - MADE FOR OWN USE	§	3,416,982	4,148,515	105,512	698,340	261,058	576,345
GRAND TOTAL	§	78,890,379	83,324,141	4,242,201	19,705,687	19,941,937	15,598,031

§ = Gross selling value at works.

Table 16 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1946

	Stocks on hand at refineries on December 31 1946	Increase or decrease over December 31 1945
(Imperial gallons)		
Crude oil and naphtha, in its natural state, from		
Canadian wells	11,200,039	- 1,852,521
Absorption gasoline, etc., from Canadian wells	1,201,515	+ 532,175
Crude oil, imported - In its natural state	137,592,879	+64,503,195
Not in its natural state	387,955	+ 387,955
Total Crude	150,382,388	+63,570,804
Gasoline (excluding imported casinghead or Canadian absorption gasoline)	128,793,932	- 6,118,333
Stove oil (40° - 42.5° A. P. I.)	12,504,207	+ 8,334,159
Gas and light fuel oil (20°-40° A. P. I. excepting diesel).	31,073,425	+ 3,097,976
Diesel fuel oil	12,468,007	+ 3,136,481
Residual fuel oil (10°-20° A. P. I.)	73,336,875	+11,139,942
Fuel oil for use in cracking process	15,502,698	-17,889,696
Tractor and engine distillate	6,332,838	- 453,199
V. M. & P. or solvent naphtha	2,766,374	- 2,009,637
Kerosene	3,266,396	- 3,159,638
Lubricating oils	6,897,679	- 589,357
Total Refined	292,942,431	- 3,332,588

Table 17 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1945 and 1946

Areas	1945		1946	
	Barrels of 35 Imp. gal.	Value \$	Barrels of 35 Imp. gal.	Value \$
New Brunswick	30,140	42,413	28,584	40,018
Ontario	113,325	268,478	123,082	291,719
Saskatchewan	14,374	15,362	118,686	135,990
Alberta	7,979,786	13,169,692	7,137,921	14,347,933
Northwest Territories	345,171	136,303	177,282	173,392
CANADA	8,482,796	13,632,248	7,585,555	14,989,052

Table 18 - WORLD CRUDE OIL PRODUCTION, 1944-1946

	1944	1945	1946
(Thousands of Barrels)			
North America -			
United States	1,678,500	1,711,000	1,733,424
Canada	10,100	8,500	7,586
Mexico	36,000	41,500	49,235
Trinidad	24,000	24,000	20,233
Other	150	150	150
	1,748,750	1,785,150	1,810,628
South America -			
Argentina	24,500	23,500	20,604
Colombia	22,500	25,000	22,118
Peru	21,000	18,500	12,456
Venezuela	267,000	276,000	388,486
Other	3,500	13,000	2,753
	338,500	356,000	446,417

Table 18 - WORLD CRUDE OIL PRODUCTION, 1944-1946 (Concluded)

	1944	1945	1946
	(Thousands of Barrels)		
<u>Europe -</u>			
U. S. S. R.	270,000	285,000	170,000
Romania	22,000	15,000	31,206
Other	27,000	26,500	17,636
	319,000	326,500	218,842
<u>Asia -</u>			
Bahrein	7,000	7,500	8,010
Iran	102,000	114,000	146,614
Iraq	29,000	35,000	35,665
Saudi Arabia	9,000	20,000	59,944
Other	36,000	11,000	14,896
	183,000	187,500	265,129
<u>Oceania -</u>			
New Zealand	2	3	2
<u>Africa -</u>			
Egypt	9,000	9,000	9,070
Other .....	...	...	20
WORLD TOTAL	2,598,152	2,564,153	2,750,126

Note: Figures for Canada Revised.

Source: "World Petroleum" - 1946 data from "International Petroleum Trade", published by U.S. Department of The Interior.

Table 19 - REFINERY PRODUCTION OF GASOLINE IN CANADA, 1932-1946

Year	Straight run	By cracking	TOTAL	Per cent of total made by cracking
	Imp. gal.	Imp. gal.	Imp. gal.	
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
1946	522,697,878	494,922,825	1,017,620,703	49

Table 20 - APPARENT SUPPLY IN CANADA OF GASOLINE FUEL OIL, ENGINE DISTILLATE, KEROSENE AND LUBRICATING OIL, 1945 and 1946

	Fuel and gas oils (a)	Gasoline	Lubricating oils (Imp. gal.)	Kerosene	Tractor and engine distillate
1945					
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 SUPPLY	964,087,812	936,940,701	59,538,995	38,002,179	37,994,864
1946					
Production	1,053,323,362	1,017,620,703	56,720,270	30,243,394	37,576,831
Plus imports entered for consumption	109,544,452	176,658,361	10,913,011	35,557,549	2,174,540
	1,162,867,814	1,194,279,064	67,633,281	65,800,943	39,751,371
Less exports and re-exports..	20,277,614	12,384,357	4,494,562	3,499,602	...
	1,142,590,200	1,181,894,707	63,138,719	62,301,341	39,751,371
Plus decline in stocks (c) ..	...	5,586,158	589,357	3,159,638	453,199
	1,142,590,200	1,187,480,865	63,728,076	65,460,979	40,204,570
Less increase in stocks (c)..	25,708,558	...	...	...	...
APPARENT SUPPLY	1,116,881,642	1,187,480,865	63,728,076	65,460,979	40,204,570

(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 supply. In 1944 the amount under this item was 23,215,553 gallons; in 1945 it was 35,395,731 gallons, and in 1946 it was 12,922,344 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.

* Refinery stocks only.

Table 21 - APPARENT SUPPLY OF FUEL OIL, GASOLINE, KEROSENE, ENGINE DISTILLATE, AND LUBRICATING OIL, 1932 - 1946.

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

Year	Fuel and gas oils	Gasoline	Engine distillate	Kerosene	Lubricating oils
	(Imperial gallons)				
1932	460,366,156	505,231,853	Not	54,534,585	26,128,986
1933	481,688,950	463,176,444	avail-	42,362,473	30,557,493
1934	503,060,605	524,622,641	able	42,727,528	26,933,794
1935	505,844,126	564,140,772	38,030,150	31,168,762	32,800,623
1936	532,285,589	616,676,937	35,344,520	31,138,985	34,823,724
1937	563,807,090	709,275,664	31,189,319	26,682,696	39,625,132
1938	592,659,806	769,926,869	32,029,333	27,466,756	38,749,528
1939	647,298,402	814,188,217	38,024,386	35,757,905	43,279,063
1940	776,586,326	896,528,828	27,939,810	29,139,569	48,261,092
1941	836,352,693	938,316,103	40,536,279	29,464,627	52,981,705
1942	844,174,095	889,638,836	44,116,128	31,719,854	50,821,384
1943	848,863,952	917,478,256	42,247,327	38,187,693	53,795,645
1944	926,454,297	976,423,948	39,920,583	39,151,455	57,188,399
1945	964,087,812	936,940,701	37,994,864	38,002,179	59,538,995
1946	1,116,881,642	1,187,480,865	40,204,570	65,460,979	63,728,076

Table 22 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1943 - 1946 (Gross Sales = sold for all purposes; net sales = sold for use in automobiles as computed from Gasoline Tax returns)

Province	1943	1944	1945	1946
(Thousands of Imperial Gallons)				
Prince Edward Island	7,881	9,295	4,716	5,945
Nova Scotia	42,465	43,462	37,727	44,570
New Brunswick	27,256	28,077	29,175	43,316
Quebec	147,048	178,879	168,304	217,543
Ontario	309,489	315,976	323,815	450,782
Manitoba	63,376	70,399	56,119	71,116
Saskatchewan	104,175	119,840	118,464	136,066
Alberta	114,970	120,159	102,754	77,650
British Columbia	86,932	84,383	74,622	96,646
TOTAL GROSS SALES	903,592	970,470	915,096	1,143,634
REFUNDS	373,747	395,614	253,079	210,999
TOTAL NET SALES	529,845	574,856	662,617	932,635

Table 23 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1943 - 1946

Month	1943	1944	1945	1946
(Thousands of Imperial gallons)				
January	46,158	57,215	45,708	62,972
February	45,785	55,329	40,146	55,974
March	67,064	72,347	58,249	75,603
April	58,407	64,214	59,657	83,958
May	81,066	95,685	87,190	109,668
June	88,260	94,506	89,768	104,628
July	92,512	93,399	92,985	124,192
August	94,880	104,204	103,927	128,396
September	95,547	99,735	92,860	116,697
October	88,251	100,597	98,917	111,173
November	78,177	74,504	80,258	93,016
December	67,465	58,735	66,031	77,357
TOTAL	903,592	970,470	915,696	1,143,634

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1946 and TOTALS for 1945

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
(Thousands of Imperial gallons)					
January	180	2,528	2,264	11,419	26,122
February	153	2,152	2,094	11,520	24,207
March	207	2,728	2,386	12,261	29,796
April	224	2,994	2,359	15,098	37,090
May	681	4,161	3,965	19,838	40,377
June	702	4,189	4,335	20,317	39,862
July	701	4,819	5,013	24,917	47,483
August	786	4,994	5,020	24,526	48,277
September	661	4,334	4,773	21,865	42,721
October	678	4,426	4,416	22,610	43,153
November	566	3,900	3,728	17,773	38,063
December	406	3,425	2,963	15,399	33,631
TOTALS FOR 1946	5,945	44,570	43,316	217,543	450,782
TOTALS FOR 1945	4,716	37,727	29,175	168,304	323,815

Petroleum Products

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1946 and TOTALS for 1945
(Concluded)

Month	Manitoba	Saskat- chewan	Alberta	British Columbia	TOTAL
(Thousands of Imperial Gallons)					
January	3,071	4,979	6,154	6,356	62,972
February	2,287	2,471	5,243	5,847	55,974
March	4,114	8,819	8,540	6,752	75,603
April	5,221	9,283	4,569	7,122	83,958
May	7,670	18,436	6,201	8,340	109,668
June	7,135	14,393	5,777	7,918	104,628
July	7,872	15,807	7,657	9,922	124,192
August	9,203	17,835	7,522	10,132	128,396
September	8,632	17,910	6,665	9,137	116,697
October	6,498	12,869	7,275	9,248	111,173
November	5,284	9,060	6,445	8,196	93,016
December	4,129	4,204	5,602	7,676	77,357
TOTALS FOR 1946	71,116	136,066	77,650	96,646	1,143,634
TOTALS FOR 1945	56,119	118,464	102,754	74,622	915,696

Table 25 - NET SALES (FOR USE IN AUTOMOBILES) OF GASOLINE IN CANADA, BY PROVINCES, 1943-1946

Province	1 9 4 3	1 9 4 4	1 9 4 5	1 9 4 6
(Thousands of Imperial gallons)				
Prince Edward Island	2,687	3,006	3,576	4,738
Nova Scotia	21,844	22,820	27,190	36,055
New Brunswick	15,872	17,716	22,943	36,507
Quebec	116,966	127,811	143,268	200,379
Ontario	213,186	228,469	262,634	398,857
Manitoba	32,492	38,009	39,039	47,421
Saskatchewan	40,767	46,924	53,752	63,280
Alberta	44,904	47,474	56,723	68,118
British Columbia	41,127	42,627	53,492	77,321
CANADA	529,845	574,856	662,617	932,635

Table 26 - REVENUES FROM GASOLINE TAXES, BY PROVINCES, 1943-1946

Province	1 9 4 3	1 9 4 4	1 9 4 5 (★)	1 9 4 6
\$				
Prince Edward Island	325,988	309,752	364,663	465,648
Nova Scotia	2,868,278	3,446,021	2,906,639	3,498,181
New Brunswick	2,101,073	2,122,312	2,101,072	2,832,391
Quebec	11,803,248	12,388,342	11,461,400	12,949,099
Ontario	26,608,291	26,608,291	26,608,291	31,260,377
Manitoba	2,678,149	2,678,149	2,681,556	3,320,949
Saskatchewan	3,397,279	3,397,280	4,390,333	4,724,071
Alberta	3,645,895	3,808,155	4,463,196	5,403,921
British Columbia	3,763,626	3,763,626	4,330,543	5,682,094
Yukon	23,505	18,840	17,268	26,842
CANADA	57,215,332	58,540,768	59,324,961	70,163,573

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

Table 27 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1933-1946

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
\$					
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	38,373,947	1944	30,584,711	58,540,768
1938	26,230,196	41,247,688	1945	31,856,834	59,324,961
1939	27,961,132	51,954,360	1946	38,410,098	70,163,573

Table 28 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1943-1946

Province	1 9 4 3	1 9 4 4	1 9 4 5	1 9 4 6
	(Number)			
Prince Edward Island	8,032	8,412	8,835	9,192
Nova Scotia	59,194	57,933	56,699	62,660
New Brunswick	40,205	39,570	41,577	44,654
Quebec	222,676	224,042	228,681	255,172
Ontario	691,615	675,057	662,719	711,106
Manitoba	93,494	93,297	92,758	101,090
Saskatchewan	133,839	140,992	140,257	148,206
Alberta	127,559	127,416	130,153	138,868
British Columbia	134,691	135,090	134,788	150,234
Yukon	540	758	614	1,281
CANADA	1,511,845	1,502,567	1,497,081	1,622,463

Table 29 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1946

Province	Passenger cars	Motor trucks	Motor buses	Motor cycles	Other motor vehicles	TOTAL
	(Number)					
Prince Edward Island	7,134	1,817	28	45	168	9,192
Nova Scotia	42,791	17,626	346	585	1,312	62,660
New Brunswick	30,670	11,102	268	328	2,286	44,654
Quebec	187,726	56,504	2,405	3,524	5,013	255,172
Ontario	585,604	116,305	2,215	6,982	(x)	711,106
Manitoba	73,976	25,391	149	856	718	101,090
Saskatchewan	100,905	46,285	67	795	154	148,206
Alberta	95,764	41,144	287	994	679	138,868
British Columbia	109,077	38,119	(x)	3,038	(x)	150,234
Yukon	359	802	23	16	81	1,281
CANADA	1,234,006	355,095	5,788	17,163	10,411	1,622,463

(x) Included with trucks.

Table 30 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1942-1946
(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>1 9 4 6</u>							
Prince Edward Island, Nova Scotia and New Brunswick	28,519	28,343	535	490	80,289	138,177	30,794
Quebec	138,485	120,285	6,881	4,355	53,694	323,701	87,352
Ontario	87,759	251,632	13,192	571	14,415	367,568	114,484
Manitoba	4,562	7,455	17,615	926	131	30,689	3,595
Saskatchewan .	6,734	34,882	21,221	1,170	...	64,008	9,169
Alberta and Northwest Territories .	4,306	13,147	14,880	52,996	1,821	87,149	11,032
British Columbia and Yukon	52,621	62,115	11,653	29,968	76,126	232,482	28,269
TOTAL, 1946 ..	322,986	517,859	85,977	90,476	226,476	1,243,774	284,695
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	344,489	55,182	73,877	239,109	833,690	231,800

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 31 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION AS FUEL, BY PROVINCES, 1942-1946

Province	For domestic	For	For	Total	Inventory
	heating, cooking and lighting purposes	fuel in tractors	other general usage	deliveries	December 31st
	(Thousands of Imperial gallons)				
<u>1946</u>					
New Brunswick, Prince Edward Island and Nova Scotia	3,023	...	108	3,131	4,930
Quebec	5,446	311	597	6,354	1,584
Ontario	9,315	784	203	10,302	3,657
Manitoba	1,980	398	45	2,423	389
Saskatchewan	3,101	398	26	3,525	894
Alberta and Northwest Territories	2,896	1,098	58	4,052	1,175
British Columbia and Yukon	1,469	...	48	1,517	331
TOTAL, 1946	27,229	2,989	1,085	31,303	12,960
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

Table 32 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1945 and 1946 (Used as fuel only - not as manufacturing materials)

Fuel for Domestic and Industrial Heating	1945	1946
	(Tons)	
New Brunswick and Prince Edward Island	236	374
Nova Scotia	423	337
Quebec	58,475	22,091
Ontario .....	...	...
Manitoba	639	1,390
Saskatchewan .....	...	1
Alberta and Northwest Territories	82	...
British Columbia and Yukon		
TOTAL	59,855	24,193

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) 1946

Thirteen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1946. Nine of these plants were located in Ontario, 2 in Quebec and 2 in British Columbia.

They gave work to a monthly average of 97 people who were paid \$191,645 as salaries or wages. Purchases of processing materials and containers cost \$1,104,061 and the selling value of products totalled \$1,723,004. Included in the year's output were lubricating oils at \$1,375,869, lubricating greases at \$124,057 and soaps or soap powders at \$60,023.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 56,720,270 gallons in 1946 against 51,433,779 gallons in 1945. Corresponding figures for lubricating greases totalled 23,011,306 pounds in 1946 and 20,178,651 pounds in 1945. 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 1946 amounted to 63,728,076 gallons.

Table 33 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1937-1946

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
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
1946	13	97	191,645	5,925	1,104,061	1,723,004

Table 34 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1945 and 1946

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>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
<u>1946</u>						
Ontario	9	73	146,213	2,298	1,039,847	1,596,291
Quebec	2					
British Columbia	2	24	45,432	3,627	64,214	126,713
CANADA	13	97	191,645	5,925	1,104,061	1,723,004

Table 35 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1945 and 1946

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<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
<u>1946</u>								
Ontario	31	9	26	7	73	100,402	45,811	146,213
Other provinces	8	3	8	5	24	29,104	16,328	45,432
CANADA	39	12	34	12	97	129,506	62,139	191,645

Table 36 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1945 and 1946

Month	Ontario		Other Provinces		C A N A D A	
	1945	1946	1945	1946	1945	1946
	January	28	32	10	8	38	40
February	27	31	10	8	37	39
March	30	31	12	9	42	40
April	30	33	16	10	46	43
May	30	34	15	18	45	52
June	29	34	15	17	44	51
July	30	32	13	16	43	48
August	29	33	15	15	44	48
September	27	34	14	14	41	48
October	27	32	12	10	39	42
November	27	31	13	10	40	41
December	27	30	12	10	39	40
AVERAGE	29	33	15	13	44	46

Petroleum Products

Table 37 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
Coal, anthracite	ton	20	273	31	469
Coal, bituminous - Canadian ...	ton	13	176	5	60
Imported ...	ton	221	2,543	209	2,383
Coke	ton	9	108	7	93
Gasoline (includes gasoline used in cars and trucks)	Imp.gal.	430	141	2,035	585
Kerosene or coal oil	Imp.gal.	...	...	...	...
Fuel oil	Imp.gal.	1,800	200	5,891	416
Wood	cord	49	692	19	341
Manufactured gas	M cu.ft.	823	907	555	616
Electricity purchased	K. W. H.	75,000	1,316	58,401	962
TOTAL .....	...	...	6,356	...	5,925

Table 38 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1945 and 1946

	1945		1946	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Gasoline, gas and oil engines	2	29	2	37
Steam engines and turbines	2	8	2	8
Electric motors run by purchased power ...	30	78	27	56
TOTAL	34	115	31	101
Stationary power boilers	1	8	1	8

Table 39 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1945 and 1946

Material	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
Compounding stocks (oils, etc.)	Imp.gal.	1,536,850	589,430	1,871,150	685,834
Tallow and grease	lb.	137,817	16,871	285,042	18,241
All other materials .....	...	...	155,194	...	136,053
Shipping containers .....	...	...	206,815	...	263,933
TOTAL .....	...	...	968,310	...	1,104,061

Table 40 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1945 and 1946

Product	Unit of measure	1945		1946	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
Greases, lubricating	pound	1,117,561	157,910	899,087	124,057
Oils, lubricating	gallon	1,350,684	1,157,577	1,632,577	1,375,869
Soaps and powders .....	...	...	42,039	...	60,023
All other products .....	...	...	92,624	...	163,055
TOTAL .....	...	...	1,450,150	...	1,723,004

Table 41 - SALES OF LUBRICATING OILS IN CANADA, 1945 and 1946 (As reported by principal dealers)

	Motor transport and tractor crankcase oil	Aircraft crankcase oils (Imperial Gallons)	Other oils (industrial, etc.)	TOTAL ALL PURPOSES
<u>1945</u>				
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	33,514	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	55,169,871
<u>1946</u>				
Prince Edward Island				
Nova Scotia	2,786,547	22,636	1,522,397	4,331,580
New Brunswick				
Quebec	6,041,084	114,462	4,542,123	10,697,669
Ontario	12,965,898	93,840	11,391,546	24,451,284
Manitoba	2,660,382	51,226	1,104,363	3,815,971
Saskatchewan	4,487,570	11,968	320,419	4,819,957
Alberta	4,131,087	63,540	778,109	4,972,736
British Columbia (including Yukon)	3,044,303	39,436	1,826,626	4,910,365
TOTAL - CANADA	36,116,871	397,108	21,485,583	57,999,562

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1946

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
<u>Nova Scotia -</u>					
Imperial Oil Limited	Imperoyal	34,000	S - C	Combination unit	9,000
<u>New Brunswick -</u>					
New Brunswick Gas & Oilfields Ltd.	Weldon	300	S	...	...
<u>Quebec -</u>					
British American Oil Co. Limited	Montreal East	12,000	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	24,000	S - C	2 Jenkins, 1 Kellogg and 1 own make	14,400
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	4,000	S	...	...
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	46,000	S - C	Tube and tank	28,000
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	...	...

77950
148960

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1946 (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
Manitoba -					
Anglo-Canadian Oils Ltd.	Brandon	2,000	S - C	Dubbs	1,000
North Star Oil Limited	St. Boniface	1,500	S - C	Dubbs	650
Radio Oil Refineries Ltd.	East Kildonan	1,000	S	...	...
Saskatchewan -					
British American Oil Co. Limited	Moose Jaw	4,000	S - C	Liquid and vapour phase	2,000
Saskatchewan Federated Cooperatives	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	500	S	...	...
Alberta -					
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	9,500	S - C	Combination unit	4,000
British Columbia -					
Imperial Oil Limited	Ioco	12,000	S - C	Tube and tank	3,200
Shell Oil Company of British Columbia Ltd.	Vancouver	4,800	S - C	U.O.P.	2,700
Standard Oil Company of British Columbia Ltd.	Burnaby	5,000	S	...	...
Northwest Territories -					
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, 1946

Name of Company	Location of Plant
Quebec -	
Chapman, L. L. and W. H. Economic Products Ltd.	Champlain St., Gatineau Point 6508 Durocher Ave., Outremont
Ontario -	
Campbell Lubricating Specialties, Ltd.	414 Eastern Ave., Toronto
Hastings Ltd.	Colebrook
Hollingshead, R. M., Co. of Canada, Ltd.	Bowmanville
The Kearns Co. of Canada	226 Weston Road, Toronto
Kendall Refining Company of Canada, Ltd.	35 Fraser Ave., Toronto
Ontario Lubricating Company Limited	120 Chatham St., Hamilton
Ontario Gasoline & Oil Limited	45 Dickens Ave., Toronto
Tide Water Oil Company of Canada, Ltd.	201 Weston Road South, Toronto
Waddell, R.	John and Haymarket Sts., Hamilton
British Columbia -	
Renton Distributors Ltd.	550 Beatty St., Vancouver
H. J. Halvorsen (Bar-Dol Products)	5405 W. Boulevard, Vancouver

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