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Dominion Statistician:
 Director - Industry and Merchandising Division:
 Chief - Mining, Metallurgical and Chemical Section:

Herbert Marshall
 W. H. Losee
 H. McLeod

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BIBLIOTHEQUEAnnual Industry ReportManufacturers Of The Non-Metallic Minerals GroupPETROLEUM PRODUCTS INDUSTRY, 1947

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

Thirty-two refineries and 14 blending plants, or a total of 46 works, reported under this category in 1947 and the aggregate value of production was \$288,500,286, an increase of 29.1 per cent over the 1946 total of \$223,425,380.

Output figures for 1947 included \$286,573,707 for petroleum refineries and \$1,926,579 for concerns engaged in blending oils and greases, against corresponding totals in 1946 of \$221,702,376 and \$1,723,004 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, 1943-1947

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>						
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
1947	32	7,686	17,739,785	12,654,136	216,037,106	286,573,707
<u>Compounding Oils and Greases</u>						
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
1947	14	74	138,035	4,427	1,478,965	1,926,579
<u>TOTAL</u>						
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
1947	46	7,760	17,877,820	12,658,563	217,516,071	288,500,286

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.

This report was prepared by J. J. Parchelo, Statistician, Metal and Chemical Products.

Table 2 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY BY PROVINCES, 1946 and 1947

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>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
<u>1947</u>						
Quebec	6	1,717	3,974,857	3,415,617	58,365,300	78,487,072
Ontario	15	3,454	8,053,482	5,643,772	77,400,848	111,856,345
Manitoba	3	208	342,076	136,318	4,812,844	5,979,102
Saskatchewan	7	598	1,330,639	942,072	23,768,985	25,191,964
Alberta	7	658	1,451,093	656,882	22,314,363	26,478,933
British Columbia	5	505	1,234,825	816,915	15,582,777	20,562,850
Nova Scotia	1)					
New Brunswick	1)	620	1,490,848	1,046,987	15,270,954	19,944,020
Northwest Territories	1)					
CANADA	46	7,760	17,877,820	12,658,563	217,516,071	288,500,286

(a) THE PETROLEUM REFINING INDUSTRY, 1947

Thirty-two petroleum refineries operating in Canada during 1947 were distributed by provinces as follows: 4 in Quebec, 6 in Ontario, 3 in Manitoba, 7 in Saskatchewan, 6 in Alberta, 3 in British Columbia and 1 in each of Nova Scotia, New Brunswick and Northwest Territories. These refineries had a capacity of 261,925 barrels of crude oil per day, of which Ontario had 87,950 or 33.5 per cent; Quebec, 73,000 barrels or 27.8 per cent; Nova Scotia, 34,000 barrels or 13 per cent; British Columbia, 22,300 barrels or 8.5 per cent; Saskatchewan 17,475 barrels or 6.7 per cent; Alberta, 21,300 barrels or 8.1 per cent; Manitoba, 4,500 barrels or 1.7 per cent; the Northwest Territories, 1,100 barrels or .4 per cent, and New Brunswick, 300 barrels. The location, type and capacity of each of these refineries is recorded in the directory at the end of this report.

During the year, 2,445,771,925 gallons of imported crude oil and 259,867,767 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 2,705,639,692 gallons was put through Canadian refineries, this amounting to about 81 per cent of the rated capacity. Of the total crude input, about 50 per cent was imported from the United States and nearly 40 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 \$205,072,293. Stocks of crude oil held at the refineries on December 31, amounted to 129,314,610 gallons.

Refinery production of gasoline in 1947 amounted to 1,074,549,865 gallons, and in addition the refineries used for blending about 54,335,273 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1947 was 5 per cent over 1946 which, in turn, was 6 per cent over 1945. The refinery selling value of the gasoline made during the year was \$143,342,382. Stocks of gasoline held by the refineries on December 31 included 95,288,702 gallons of straight run or cracked gasoline and 9,724,576 gallons of imported casinghead gasoline. In 1947 there was an output of 11,982,565 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 230,086,957 gallons during 1947, which, added to the production of 1,074,549,865 gallons plus the decrease in producers', distributors' and consumers' stocks of 34,196,192 gallons and less the exports of 10,819,473 gallons, made an apparent Canadian consumption of 1,328,013,541 gallons. Actual sales as reported to the Bureau on a monthly basis amounted to 1,371,572,000 gallons, this figure being compiled from returns made to provincial governments in connection with tax payments.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 1,160,378,718 gallons, of which 1,044,558,898 gallons were made for sale and 115,819,820 gallons for use as fuel in the producing plant. Imports amounted to 373,737,127 gallons and exports to 27,171,880 gallons. Stocks of fuel oil and distillate at the end of the year stood at 184,172,161 gallons, or about 54,789,647 gallons more than in 1946. Output of tractor and engine distillate was 35,400,048 gallons in 1947, imports amounted to 2,320,534 gallons, and producers' stocks decreased 2,669,715 gallons. The apparent consumption of fuel oils and distillate in Canada as calculated from the above figures, amounted to 1,492,544,615 gallons.

Monthly employment in the refining industry averaged 7,686 persons who received \$17,739,785 in salaries and wages. Expenditures for fuel and electricity amounted to \$12,654,136 and \$216,037,106 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1944 - 1947

Province	1 9 4 4		1 9 4 5		1 9 4 6		1 9 4 7	
	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	300	1	300
Quebec	4	63,000	4	59,000	4	71,000	4	73,000
Ontario	6	75,450	6	75,450	6	77,950	6	87,950
Manitoba	3	4,000	3	4,500	3	4,500	3	4,500
Saskatchewan	7	17,075	7	18,075	7	18,175	7	17,475
Alberta	6	19,000	4	18,100	4	17,300	6	21,300
British Columbia	3	24,800	3	21,000	3	21,800	3	22,300
Northwest Territories	1	840	1	840	1	840	1	1,100
CANADA	32	238,415	30	231,215	30	245,865	32	261,925

Note: 1 barrel = 35 Imperial gallons.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1938 - 1947

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
			\$	\$	\$	\$
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
1947	32	7,686	17,739,785	12,654,136	216,037,106	286,573,707

Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY BY PROVINCES, 1946 and 1947

Province	Number of refin- eries	Average number of em- ployees	Salaries	Cost of	Cost of	Gross sell-
			and wages	fuel and electricity at works	materials at works	ing value of products at works
			\$	\$	\$	\$
<u>1 9 4 6</u>						
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
<u>1 9 4 7</u>						
Quebec	4	1,708	3,959,613	3,414,725	58,226,286	78,267,615
Ontario	6	3,394	7,941,086	5,640,903	76,091,300	110,208,347
Manitoba	3	208	342,076	136,318	4,812,844	5,979,102
Saskatchewan	7	598	1,330,639	942,072	23,768,985	25,191,964
Alberta	6	657	1,450,433	656,740	22,306,013	26,458,551
British Columbia ..	3	501	1,225,090	816,391	15,560,724	20,524,108
Other provinces (x)	3	620	1,490,848	1,046,987	15,270,954	19,944,020
CANADA	32	7,686	17,739,785	12,654,136	216,037,106	286,573,707

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

Table 6 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1946 and 1947

Province	Average number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1 9 4 6</u>								
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
<u>1 9 4 7</u>								
Quebec	272	42	1,385	9	1,708	907,836	3,051,777	3,959,613
Ontario	540	114	2,704	36	3,394	1,997,222	5,943,864	7,941,086
Manitoba	34	13	151	10	208	98,765	243,311	342,076
Saskatchewan	94	20	482	2	598	315,482	1,015,157	1,330,639
Alberta	101	17	537	2	657	318,057	1,132,376	1,450,433
British Columbia ..	75	11	414	1	501	285,821	939,269	1,225,090
Other provinces ..	69	24	521	6	620	279,294	1,211,554	1,490,848
CANADA	1,185	241	6,194	66	7,686	4,202,477	13,537,308	17,739,785

Petroleum Products

Table 7 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1947 (On the last work-day of each month)

Month	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other provinces	CANADA
January	1,249	2,651	148	445	488	379	511	5,871
February	1,269	2,670	144	448	483	386	506	5,906
March	1,274	2,714	147	436	482	396	511	5,960
April	1,327	2,713	151	503	522	400	513	6,129
May	1,388	2,738	169	514	533	422	530	6,294
June	1,459	2,804	172	507	529	427	547	6,445
July	1,495	2,862	171	531	553	434	588	6,634
August	1,462	2,793	168	521	578	440	566	6,528
September	1,463	2,721	169	498	591	427	538	6,407
October	1,439	2,738	164	486	570	417	532	6,346
November	1,453	2,745	168	466	570	425	523	6,350
December	1,444	2,743	163	457	565	426	462	6,260
AVERAGE	1,394	2,740	161	484	539	415	527	6,260

Table 8 - FUEL (x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	ton	...	...	...	...
Imported	ton	13,286	93,349	5,936	46,405
Coke, including petroleum coke	ton	4,160	20,206	1,080	6,994
Gasoline	Imp.gal.	284,719	64,585	507,091	78,927
Kerosene	Imp.gal.	5,095	529	12,866	1,653
Fuel oil	Imp.gal.	107,549,012	5,089,508	115,815,203	6,841,348
Wood	cord	70	560	80	650
Gas - Manufactured, including still gas	M cu.ft.	10,032,080	3,578,422	10,221,188	4,229,161
Natural	M cu.ft.	2,743,748	268,105	3,118,178	307,151
Other fuel .....	...	...	281,808	...	324,902
Electricity purchased	K.W.H.	108,344,577	756,028	118,196,160	816,945
TOTAL .....	...	...	10,153,100	...	12,654,136
Electricity generated for own use	K.W.H.	...	...	546,980	...

(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, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1 9 4 6			
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 9 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1946 and 1947 (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 7</u>				
Steam engines	214	7,298	52	972
Steam turbines	414	23,132	28	2,552
Diesel engines	13	1,384	...	...
Gasoline, gas and oil engines (except diesel)	32	2,433	3	78
Total Primary Equipment	673	34,247	83	3,602
Electric motors run by purchased power	2,457	37,831	82	1,291
TOTAL	3,130	72,078	165	4,893
Electric motors run by power generated by primary equipment above	55	288	...	...
Stationary power boilers	130	33,569	10	1,567
Motor-generator sets	9	778 k.v.a.	1	53 k.v.a.

Table 10 - MATERIALS USED IN PETROLEUM REFINERIES, 1946 and 1947

Material	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works	Quantity	Cost at works
Crude oil (under 60° A. P. I.) in its natural state, from Canadian wells	Imp.gal.	236,210,031	15,366,821	247,885,202	20,824,385
Absorption gasoline, etc., from Canadian wells (run to stills).	Imp.gal.	14,356,179	827,399	11,982,565	805,368
Crude oil, in its natural state, imported, (run to stills)-					
From United States	Imp.gal.	1,351,879,093	83,182,316	1,360,708,646	108,755,038
From Other Countries	Imp.gal.	874,210,116	44,830,178	1,073,712,576	73,642,869
Crude oil, not in its natural state (run to stills)	Imp.gal.	1,700,073	87,066	11,350,703	1,049,633
Benzol for blending	Imp.gal.	2,256,556	325,420	909,155	140,949
Phenol	pound	754,004	101,276	864,485	111,564
Sulphuric acid, 66° Be	pound	38,480,882	408,145	38,803,888	404,984
Sulphur	pound	135,379	3,361	253,998	6,175
Caustic soda	pound	7,545,781	225,798	8,598,909	260,635
Soda ash	pound	432,463	9,786	673,247	14,358
Litharge	pound	351,612	30,030	298,760	34,157
Fuller's earth, bentonite and other clays	Pound	25,626,000	570,909	26,492,000	579,819
Compounding materials .....	...	...	384,218	...	469,725
Tetraethyl fluid	c.c.	2,779,052,387	4,154,307	3,075,253,494	4,391,464
Blending stocks for aviation gas	Imp.gal.	10,065,617	1,486,496	5,078,016	994,677
Other materials .....	...	...	1,733,720	...	2,181,454
Shipping containers .....	...	...	987,437	...	1,369,852
TOTAL .....	...	...	154,714,683	...	216,037,106

Table 11 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1947

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.	800,100	4,613,234	22,638,403	19,271,514	191,142,096	9,419,865
\$	32,000	358,131	2,527,731	1,792,977	15,521,658	591,888
Absorption gasoline, etc. from Canadian wells (run to still) gal.	...	...	...	...	11,982,565	...
\$	...	...	...	...	805,368	...
Crude oil, in its natural state, imported (run to still) -						
(a) From United States gal.	139,052,131	752,427,089	18,840,720	186,330,770	47,936,210	216,121,726
\$	11,115,212	54,981,197	2,162,788	21,559,069	4,865,963	14,070,809
(b) From Other Countries .. gal.	855,279,409	209,562,191	...	...	...	8,970,976
\$	57,130,106	15,794,571	...	...	...	718,192
Crude oil, not in its natural state, imported ... gal.	7,865,585	...	...	...	...	3,485,118
\$	841,412	...	...	...	...	203,221
Benzol for blending gal.	883,325	25,830	...	...	...	...
\$	137,109	3,840	...	...	...	...
Sulphuric acid 66° Be lb.	1,373,722	28,340,886	55,769	2,024,044	4,822,828	2,186,639
\$	13,561	288,832	1,836	24,532	53,674	22,549
Sulphur lb.	4,460	197,273	365	500	45,825	5,575
\$	116	4,479	14	15	1,455	96
Caustic soda lb.	3,344,972	2,831,903	234,680	579,192	1,038,603	569,559
\$	96,223	68,391	9,477	23,441	42,467	20,636
Soda ash lb.	33,700	243,300	100	323,497	48,100	24,550
\$	727	3,822	2	8,036	1,203	568
Litharge lb.	9,055	145,449	2,487	3,400	127,350	11,019
\$	824	16,908	462	359	14,462	1,142
Fullers' earth and clay lb.	228,000	25,926,000	...	40,000	58,000	240,000
\$	3,062	571,651	...	744	1,106	3,256
Compounding materials \$	8,189	442,920	...	3,260	3,321	12,035
Tetraethyl fluid \$	2,072,534	1,183,570	86,580	270,419	434,921	343,440
Other materials \$	1,356,867	1,130,046	10,334	86,133	549,698	159,617
Shipping containers \$	66,032	1,242,942	13,520	...	10,717	36,541
TOTAL \$	72,873,974	76,091,300	4,812,844	23,768,985	22,306,013	16,183,990

\$ = Cost at works.

Table 12 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1938 - 1947

Year	Canadian (a)	Imported (b)	TOTAL
		(Imperial gallons)	
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	1,982,871,799	2,283,207,870
1945	274,831,125	2,031,784,863	2,306,615,988
1946	250,566,210	2,227,789,282	2,478,355,492
1947	259,867,767	2,445,771,925	2,705,639,692

(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, 1947 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp.gal.	55,268,821
	\$	6,270,177
Imported natural casinghead gasoline used for blending during the year	Imp.gal.	54,335,273
Total stocks of imported natural casinghead gasoline at the end of the year .	Imp.gal.	9,724,576

Table 14 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1946 and 1947

Product	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Gross selling value at works \$	Quantity	Gross selling value at works \$
Made for sale -					
Gasoline (1) Straight run- Aviation	Imp.gal.	7,996,196	1,382,490	9,127,412	1,913,614
Standard	Imp.gal.	514,458,339	59,536,928	540,861,519	71,658,856
By cracking - Aviation	Imp.gal.	...	...	385	64
Standard	Imp.gal.	494,882,046	56,858,859	524,079,321	69,703,871
Stove oil (40°-42.5° A.P.I.)	Imp.gal.	88,212,202	5,968,044	62,125,100	5,810,542
Gas and light fuel oil (20°-40° A.P.I., except diesel)	Imp.gal.	189,547,916	11,928,836	255,440,748	21,682,213
Diesel fuel oil (all fuel oil sold under this name)	Imp.gal.	129,490,547	7,742,974	181,706,744	14,363,882
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	538,391,794	27,661,201	545,286,306	38,165,884
Tractor and engine distillate	Imp.gal.	37,576,831	4,009,401	35,400,048	4,451,427
V. M. and P. or solvent naphtha ...	Imp.gal.	24,785,599	3,409,599	27,063,362	4,173,978
Kerosene	Imp.gal.	30,197,702	3,319,742	32,410,457	4,440,645
Lubricating oil	Imp.gal.	54,958,798	13,761,569	60,450,332	16,739,245
Lubricating grease	pound	22,112,219	991,334	30,286,448	1,473,158
Asphalt	Imp.gal.	91,334,563	8,099,694	127,483,319	13,381,407
Petroleum coke	ton	65,443	343,761	77,036	591,140
Other products (2) .....	...	...	7,481,192	...	6,396,786
TOTAL - MADE FOR SALE .....	...	...	212,495,624	...	274,946,712
Made for own use -					
Gasoline - Straight run	Imp.gal.	243,343	52,957	397,308	54,364
By cracking process	Imp.gal.	40,779	5,570	83,920	11,613
Stove oil	Imp.gal.	9,354	520	3,206	298
Gas and light fuel oil (20°-40° A.P.I.)	Imp.gal.	69,830	4,327	136,008	10,361
Diesel fuel oil	Imp.gal.	475,627	31,977	527,730	41,505
Residual fuel oil (10°-20° A.P.I.)	Imp.gal.	107,126,092	5,077,023	115,152,876	6,962,660
Tractor and engine distillate	Imp.gal.	...	...	...	...
Kerosene	Imp.gal.	45,692	5,104	39,378	5,781
Lubricating oil	Imp.gal.	128,895	29,721	72,991	19,093
Asphalt	Imp.gal.	60,178	5,315	143,776	16,683
Petroleum coke	ton	4,172	19,345	1,089	7,075
Still gas	M cu.ft.	10,032,080	3,690,804	10,131,187	4,149,131
Other products .....	...	...	284,089	...	348,431
TOTAL - MADE FOR OWN USE .....	...	...	9,206,752	...	11,626,995
GRAND TOTAL .....	...	...	221,702,376	...	286,573,707

- (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 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, 1947

Product	Unit of measure	Eastern Provinces	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories
Made for sale -							
Gasoline	Imp.gal.	375,204,118	371,891,579	22,620,256	102,383,615	127,990,410	73,978,659
	⌘	48,247,326	46,529,116	3,999,013	16,897,000	17,923,986	9,679,964
Fuel oil and gas oil	Imp.gal.	446,226,643	333,103,281	10,862,146	59,513,578	61,724,488	131,128,762
	⌘	34,456,676	26,722,495	1,182,863	4,239,287	4,303,320	9,117,880
Tractor and engine distillate	Imp.gal.	...	9,656,881	3,354,506	10,339,843	12,048,818	...
	⌘	...	1,231,914	507,912	1,371,709	1,339,892	...
V. M. & P. or solvent naphtha	Imp.gal.	9,274,596	13,644,509	347,234	1,078,420	822,973	1,895,630
	⌘	1,512,101	1,895,712	70,566	214,496	146,246	334,857
Kerosene	Imp.gal.	14,388,665	10,757,332	518,802	3,385,800	3,359,858	...
	⌘	1,824,756	1,460,928	99,168	548,187	507,606	...
Lubricating oil	Imp.gal.	1,232,852	58,115,170	...	115,154	...	987,156
	⌘	324,094	15,985,155	...	23,557	...	406,439
Grease	pound	2,061	30,250,482	...	...	...	33,905
	⌘	93	1,471,502	...	...	...	1,563
Asphalt	Imp.gal.	60,090,096	37,782,693	...	8,459,927	11,610,524	9,540,079
	⌘	6,162,848	4,074,410	...	903,120	1,204,837	1,036,192
Petroleum coke	ton	1,662	71,987	...	3,387	...	...
	⌘	8,393	564,389	...	18,358	...	...
Other products	⌘	342,790	4,955,243	...	159,489	775,011	164,253
TOTAL - MADE FOR SALE ..	⌘	92,879,077	104,890,864	5,859,522	24,375,203	26,200,898	20,741,148
Made for own use -							
Gasoline	Imp.gal.	156,573	262,751	...	7,000	3,990	50,914
	⌘	20,053	33,620	...	1,111	549	10,644
Fuel oil and gas oil	Imp.gal.	38,212,660	52,992,594	2,553,169	8,901,745	538,777	12,620,875
	⌘	2,419,738	3,147,160	119,580	502,641	23,538	802,167
Kerosene	Imp.gal.	...	16,347	...	2,606	20,425	...
	⌘	...	2,222	...	417	3,142	...
Lubricating oil	Imp.gal.	...	68,271	...	...	...	4,720
	⌘	...	17,921	...	...	...	1,172
Petroleum coke	ton	...	484	...	605	...	...
	⌘	...	3,796	...	3,279	...	...
Still gas	M cu.ft.	4,026,314	4,150,541	...	861,432	951,700	141,200
	⌘	1,778,256	1,770,258	...	301,784	230,424	68,409
Other products	⌘	13,501	342,506	...	7,529	...	1,578
TOTAL - MADE FOR OWN USE	⌘	4,231,548	5,317,483	119,580	816,761	257,653	883,970
GRAND TOTAL	⌘	97,110,625	110,208,347	5,979,102	25,191,964	26,458,551	21,625,118

⌘ = Gross selling value at works.

Table 16 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1947

	Stocks on hand at refineries on December 31, 1947	Increase or decrease over December 31, 1946
(Imperial gallons)		
Crude oil and naphtha, in its natural state, from Canadian wells	8,962,199	- 2,237,840
Absorption gasoline, etc., from Canadian wells	510,553	- 690,962
Crude oil, imported - In its natural state	119,466,353	-18,126,526
Not in its natural state	375,505	- 12,450
Total Crude	129,314,610	-21,067,778
Gasoline (excluding imported casinghead or Canadian absorption gasoline)	95,288,702	-33,505,230
Stove oil (40° - 42.5° A.P.I.)	41,663,706	+29,159,499
Gas and light fuel oil (20°-40° A.P.I. excepting diesel) ..	60,148,029	+29,074,604
Diesel fuel oil	18,540,079	+ 6,072,072
Residual fuel oil (10°-20° A.P.I.)	63,820,347	- 9,516,528
Fuel oil for use in cracking process	15,717,883	+ 215,185
Tractor and engine distillate	3,663,123	- 2,669,715
V. M. & P. or solvent naphtha	4,090,760	+ 1,324,386
Kerosene	17,989,520	+14,723,124
Lubricating oils	10,910,575	+ 4,012,896
Total Refined	331,832,724	+38,890,293

Table 17 - PRODUCTION AND PRODUCERS' SALES OF CRUDE PETROLEUM IN CANADA, BY PROVINCES, 1946 and 1947

Province	1 9 4 6			1 9 4 7		
	Production (barrels)	Sales (barrels)	Value of sales \$	Production (barrels)	Sales (barrels)	Value of sales \$
New Brunswick	28,584	28,584	40,018	23,129	23,129	32,381
Ontario	123,082	123,082	291,719	131,295	131,295	350,000
Saskatchewan	136,874	118,686	135,990	540,117	540,117	614,156
Alberta (x)	7,138,532	7,137,921	14,347,933	6,809,284	6,770,477	18,078,907
Northwest Territories	180,408	177,282	173,392	231,844	227,474	500,238
CANADA	7,607,480	7,585,555	14,989,052	7,735,669	7,692,492	19,575,682

(x) Includes natural gasoline.

Table 18 - WORLD CRUDE OIL PRODUCTION, 1945 - 1947

	1945	1946	1947
(Thousands of Barrels)			
<u>North America -</u>			
United States	1,711,000	1,733,424	1,856,107
Canada	8,500	7,586	7,736
Mexico	41,500	49,235	56,130
Trinidad	24,000	20,233	20,344
Other	150	150	250
Total	1,785,150	1,810,628	1,940,567
<u>South America -</u>			
Argentina	23,500	20,604	21,847
Colombia	25,000	22,118	24,843
Peru	18,500	12,456	12,764
Venezuela	276,000	388,486	434,640
Other	13,000	2,753	3,012
Total	356,000	446,417	497,106

Table 18 - WORLD CRUDE OIL PRODUCTION, 1945 - 1947 (Concluded)

	1945	1946	1947
	(Thousands of Barrels)		
Europe -			
U. S. S. R.	285,000	170,000	198,195
Romania	15,000	31,206	28,473
Other	26,500	17,636	18,386
	<u>326,500</u>	<u>218,842</u>	<u>245,054</u>
Asia -			
Bahrein	7,500	8,010	9,411
Iran	114,000	146,614	154,086
Iraq	35,000	35,665	36,205
Saudi Arabia	20,000	59,944	89,852
Other	11,000	14,896	41,580
	<u>187,500</u>	<u>265,129</u>	<u>331,134</u>
Oceania -			
New Zealand	3	2	...
Africa -			
Egypt	9,000	9,070	9,317
Other .....	...	20	...
WORLD TOTAL ...	<u>2,564,153</u>	<u>2,750,126</u>	<u>3,023,178</u>

Note: Figures for Canada have been revised.

Source: Data for 1945 and 1946 from "World Petroleum"; 1947 data from December 30, 1948 issue of "Oil and Gas Journal", published by The Petroleum Publishing Co., Tulsa, Okla.

Table 19 - REFINERY PRODUCTION (★) OF GASOLINE IN CANADA, 1938-1947

Year	Straight run	By cracking	TOTAL	Per cent of total made by cracking
	Imp.gal.	Imp.gal.	Imp.gal.	
1938	362,583,649	291,445,476	654,029,125	45
1939	405,738,237	334,925,382	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
1947	550,386,239	524,163,626	1,074,549,865	49

(★) Includes production made for own use.

Table 20 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1944 - 1947 (Gross Sales = sold for all purposes; net sales = sold for use in automobiles as computed from Gasoline Tax returns)

Province	1944	1945	1946 (x)	1947
	(Thousands of Imperial Gallons)			
Prince Edward Island	9,295	4,716	5,945	6,963
Nova Scotia	43,462	37,727	44,572	51,648
New Brunswick	28,077	29,175	43,320	49,936
Quebec	178,879	168,304	218,009	247,468
Ontario	315,976	323,815	451,252	501,433
Manitoba	70,399	56,119	72,403	83,146
Saskatchewan	119,840	118,464	136,066	142,368
Alberta	120,159	102,754	143,650	171,113
British Columbia	84,383	74,622	97,383	117,497
TOTAL GROSS SALES	970,470	915,696	1,212,600	1,371,572
REFUNDS	395,614	253,079	213,315	250,218
TOTAL NET SALES	574,856	662,617	999,285	1,121,354

(x) Revised.

Table 21 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1944 - 1947

Month	1944	1945	1946 (x)	1947
	(Thousands of Imperial gallons)			
January	57,215	45,708	63,072	70,380
February	55,329	40,146	55,974	63,445
March	72,347	58,249	76,603	72,747
April	64,214	59,657	88,765	87,716
May	95,685	87,190	121,552	141,300
June	94,506	89,768	112,328	136,463
July	93,399	92,985	132,912	150,727
August	104,204	103,927	137,130	148,269
September	99,735	92,860	125,854	146,208
October	100,597	98,917	120,516	146,519
November	74,504	80,258	97,662	110,980
December	58,735	66,031	80,252	96,818
TOTAL	970,470	915,696	1,212,600	1,371,572

(x) Revised.

Table 22 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1947 and TOTALS for 1946

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	(Thousands of Imperial gallons)				
January	274	2,990	2,698	13,921	30,400
February	243	2,660	2,458	12,407	27,892
March	273	3,100	2,807	14,137	31,022
April	325	3,472	2,842	14,518	35,345
May	737	4,636	4,211	20,122	44,895
June	722	4,692	4,798	23,643	46,491
July	806	5,442	5,618	28,092	53,281
August	849	5,374	5,712	27,161	52,616
September	784	5,527	5,639	26,742	49,766
October	812	5,146	5,175	27,138	50,327
November	632	4,483	4,270	21,445	40,284
December	505	4,127	3,707	18,143	39,115
TOTALS FOR 1947	6,963	51,648	49,936	247,468	501,433
TOTALS FOR 1946(x)	5,945	44,572	43,320	218,009	451,252
	Manitoba	Saskatchewan	Alberta	British Columbia	TOTAL
January	3,420	2,225	7,469	6,983	70,380
February	2,691	1,365	6,921	6,810	63,445
March	3,455	2,627	7,109	8,217	72,747
April	4,822	6,394	11,090	8,908	87,716
May	9,813	24,007	22,871	10,008	141,300
June	8,268	18,285	18,912	10,652	136,463
July	9,051	17,593	18,991	11,853	150,727
August	9,599	17,414	17,632	11,913	148,269
September	10,776	18,381	16,784	11,809	146,208
October	9,943	18,204	18,727	11,047	146,519
November	6,251	10,097	13,770	9,748	110,980
December	5,057	5,778	10,836	9,550	96,818
TOTALS FOR 1947	83,146	142,368	171,113	117,497	1,371,572
TOTALS FOR 1946(x)	72,403	136,066	143,650	97,383	1,212,600

(x) Revised.

Table 23 - NET SALES (FOR USE IN AUTOMOBILES) OF GASOLINE IN CANADA, BY PROVINCES, 1944-1947

Province	1944	1945	1946 (x)	1947
	(Thousands of Imperial gallons)			
Prince Edward Island	3,006	3,576	4,738	5,280
Nova Scotia	22,820	27,190	36,056	49,340
New Brunswick	17,716	22,943	36,512	42,400
Quebec	127,811	143,268	200,805	227,276
Ontario	228,469	262,634	399,327	427,726
Manitoba	38,009	39,039	48,664	56,537
Saskatchewan	46,924	53,752	63,280	62,109
Alberta	47,474	56,723	132,582	163,941
British Columbia	42,627	53,492	77,321	86,745
CANADA	574,856	662,617	999,285	1,121,354

(x) Revised.

Table 24 - DOMINION AND PROVINCIAL GOVERNMENT RECEIPTS FROM GASOLINE TAXES, BY PROVINCES, 1944-1947

Province	1944	1945	1946	1947
	\$			
Prince Edward Island	309,752	364,663	465,648	698,303
Nova Scotia	3,446,021	2,906,639	3,498,181	5,179,783
New Brunswick	2,122,312	2,101,072	2,832,391	4,200,080
Quebec	11,801,536	12,949,099	16,468,731	25,568,671
Ontario	26,608,291	26,608,291	31,260,377	47,420,015
Manitoba	2,678,149	2,681,556	3,320,949	4,592,510
Saskatchewan	3,397,280	4,390,333	4,724,071	6,399,303
Alberta	3,808,155	4,463,196	5,403,921	7,657,915
British Columbia	3,763,626	4,330,543	5,682,094	9,295,743
Yukon	18,840	17,268	26,842	50,497
TOTAL PROVINCIAL RECEIPTS	57,953,962(x)	60,812,660(x)	73,683,205	111,062,820
Add Dominion Government Receipts				
Less Subsidies	19,238,391	26,854,135	34,889,990	(f) 8,605,249
TOTAL GASOLINE TAXES	77,192,353	87,666,795	108,573,195	119,668,069

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

(f) January to March, 1947.

Table 25 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1938-1947

Year	From	From	Year	From	From
	motor vehicle registrations	gasoline taxes		motor vehicle registrations	gasoline taxes
	\$			\$	
1938	26,230,196	41,247,688	1943	30,292,019	70,355,731(x)
1939	27,961,132	51,954,360	1944	30,584,711	77,192,353(x)
1940	29,300,720	56,179,173	1945	32,166,464	87,666,795(x)
1941	31,559,944	77,024,754(x)	1946	39,787,935	108,573,195(x)
1942	28,498,676	72,349,746(x)	1947	46,012,824	119,668,069(x)

(x) Total tax paid by public including Provincial and Dominion Government taxes but allowing for subsidies paid to provinces by Dominion Government in guarantee of revenues because of gasoline rationing.

Note: Subsidies discontinued in 1946.

Dominion Government gasoline tax cancelled March 31, 1947.

Table 26 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1944-1947

	1944	1945	1946	1947
	(Number)			
Prince Edward Island	8,412	8,835	9,192	9,948
Nova Scotia	57,933	56,699	62,660	70,300
New Brunswick	39,570	41,577	44,654	51,589
Quebec	224,042	228,681	255,172	296,547
Ontario	675,057	662,719	711,106	800,058
Manitoba	93,297	92,758	101,090	112,149
Saskatchewan	140,992	140,257	148,206	158,512
Alberta	127,416	130,153	138,868	155,386
British Columbia	135,090	134,788	150,234	179,684
Yukon	758	614	1,281	1,786
CANADA	1,502,567	1,497,081	1,622,463	1,835,959

Table 27 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1947

Province	Passenger cars	Motor trucks	Motor buses	Motor cycles	Other motor vehicles	TOTAL
	(Number)					
Prince Edward Island	7,559	2,137	33	37	182	9,948
Nova Scotia	47,109	20,702	(x)	804	1,685	70,300
New Brunswick	34,611	13,727	313	731	2,207	51,589
Quebec	215,322	71,369	2,894	6,962	(x)	296,547
Ontario	645,252	142,297	2,940	9,569	(x)	800,058
Manitoba	80,201	29,473	185	1,118	1,172	112,149
Saskatchewan	105,329	51,993	111	1,000	79	158,512
Alberta	105,132	47,012	347	1,534	1,361	155,386
British Columbia	128,611	46,434	(x)	4,364	275	179,684
Yukon	1,047	659	3	10	67	1,786
CANADA	1,370,173	425,803	6,826	26,129	7,028	1,835,959

(x) Included with trucks.

Table 28 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1947, and TOTALS FOR 1943 - 1946

(As reported by Distributors and Refiners - Imperial Gallons - Calendar Years)

Area	Domestic and building heating	Industrial	Tractor fuel oil not lubricant	Railways, princially locomotive fuel	Bunkering including distributors' tankers	TOTAL DELIVERIES	Inventory on December 31, at refinery warehouses and consumers' storage
				(Thousands of Imperial gallons)			
1947							
Prince Edward Island, Nova Scotia and New Brunswick	49,804	33,980	4,235	2,242	87,578	177,838	22,233
Quebec	210,226	130,473	11,569	3,848	80,240	436,356	131,853
Ontario	157,541	292,514	15,827	5,372	13,239	484,494	174,301
Manitoba	9,029	11,814	17,902	1,593	...	40,338	4,808
Saskatchewan .	14,863	37,598	24,938	6,498	...	83,898	12,581
Alberta and Northwest Territories ..	5,176	19,197	19,727	49,167	671	93,937	12,129
British Columbia and Yukon	84,791	85,742	13,475	31,034	82,490	297,532	42,672
TOTAL, 1947 ..	531,430	611,318	107,673	99,754	264,218	1,614,393	400,577
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	77,227	234,231	795,789	275,718

Note: Fuel oil includes all oils up to 39° A.P.I., or 0.8299, processed from petroleum. Distillates and light fuel oils include all oils over 39° A.P.I., or 0.8299, 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. Amounts recorded for industrial gallonage prior to 1945 exclude fuel oil consumed under refinery boilers and fuel oil used as a material in manufacturing and from 1946 on, figures include fuel oil used for both purposes.

Table 29 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION AS FUEL, BY PROVINCES, 1947, AND TOTALS FOR 1943 - 1946

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>1947</u>					
New Brunswick, Prince Edward Island and Nova Scotia	3,049	15	227	3,291	2,130
Quebec	12,584	310	1,231	14,125	15,447
Ontario	12,922	914	893	14,729	6,890
Manitoba	1,826	160	437	2,423	483
Saskatchewan	3,364	211	28	3,603	1,059
Alberta and Northwest Territories .	2,959	73	14	3,046	1,200
British Columbia and Yukon	1,436	1	127	1,564	1,490
TOTAL, 1947	38,140	1,684	2,957	42,781	28,699
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

Table 30 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1946 and 1947 (Used as fuel only - not as manufacturing materials)

Fuel for Domestic and Industrial Heating	1946	1947
(Tons)		
New Brunswick and Prince Edward Island	374	412
Nova Scotia	337	1,371
Quebec	22,091	23,500
Ontario .....	...	3,662
Manitoba	1,390	1,786
Saskatchewan	1	...
Alberta and Northwest Territories .....	...	97
British Columbia and Yukon .....	...	...
TOTAL	24,193	30,828

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) 1947

Fourteen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1947. Nine of these plants were located in Ontario, 2 in Quebec, 1 in Alberta and 2 in British Columbia.

They gave work to a monthly average of 74 people who were paid \$138,035 as salaries or wages. Purchases of processing materials and containers cost \$1,478,965 and the selling value of products totalled \$1,926,579. Included in the year's output were lubricating oils at \$1,706,721, lubricating greases at \$116,021 and soaps or soap powders at \$31,899.

Total Canadian output of lubricating oils, including production from the refineries amounted to 62,799,335 gallons in 1947 against 56,720,270 gallons in 1946. Corresponding figures for lubricating greases totalled 31,101,230 pounds in 1947 and 23,040,451 pounds in 1946. 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 1947 amounted to 67,095,880 gallons.

Table 31 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1938-1947

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
			\$	\$	\$	\$
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
1947	14	74	138,035	4,427	1,478,965	1,926,579

Table 32 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1946 and 1947

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>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
<u>1947</u>						
Ontario	9	60	112,396	2,869	1,309,548	1,647,998
Quebec	2)					
Alberta	1)	14	25,639	1,558	169,417	278,581
British Columbia	2)					
CANADA	14	74	138,035	4,427	1,478,965	1,926,579

Table 33 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1946 and 1947

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<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
<u>1947</u>								
Ontario	20	9	27	4	60	63,503	48,893	112,396
Other provinces	3	3	8	...	14	13,093	12,546	25,639
CANADA	23	12	35	4	74	76,596	61,439	138,035

Table 34 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1946 and 1947

Month	Ontario		Other Provinces		C A N A D A	
	1946	1947	1946	1947	1946	1947
January	32	29	8	5	40	34
February	31	29	8	9	39	38
March	31	33	9	9	40	42
April	33	30	10	8	43	38
May	34	31	18	8	52	39
June	54	29	17	7	51	36
July	32	30	16	7	48	37
August	33	30	15	8	48	38
September	34	30	14	7	48	37
October	32	30	10	7	42	37
November	31	30	10	7	41	37
December	30	30	10	7	40	37
AVERAGE	33	31	13	8	46	39

Table 35 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1946 and 1947

Kind	Unit of measure	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
		↓		↓	
Coal - Anthracite	ton	31	469	37	666
Bituminous - Canadian ...	ton	5	60	5	72
Imported ...	ton	209	2,383	9	142
Coke	ton	7	93	5	75
Gasoline (includes gasoline used in cars and trucks)	Imp.gal.	2,035	585	2,538	914
Kerosene or coal oil	Imp.gal.	...	...	380	87
Fuel oil	Imp.gal.	5,891	416	4,917	602
Wood	cord	19	341	12	193
Manufactured gas	M cu.ft.	555	616	440	442
Other fuel .....	...	...	...	...	55
Electricity purchased	K.W.H.	58,401	962	69,250	1,179
TOTAL .....	...	...	5,325	...	4,427

Table 36 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1946 and 1947

	1946		1947	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Gasoline, gas and oil engines	2	37	2	90
Steam engines and turbines	2	8	...	...
Electric motors run by purchased power	27	56	31	49
TOTAL	31	101	33	139
Stationary power boilers	1	8	...	...

Table 37 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1946 and 1947

Material	Unit of measure	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
		↓		↓	
Compounding stocks (oils, etc.)	Imp.gal.	1,871,150	685,834	1,914,614	982,913
Tallow and grease	lb.	285,042	18,241	16,478	2,775
All other materials .....	...	...	136,053	...	212,151
Shipping containers .....	...	...	263,933	...	281,126
TOTAL .....	...	...	1,104,061	...	1,478,965

Table 38 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1946 and 1947

Product	Unit of measure	1946		1947	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
		↓		↓	
Greases, lubricating	pound	899,087	124,057	791,710	116,021
Oils, lubricating	gallon	1,632,577	1,375,869	2,276,012	1,706,721
Soaps and powders .....	...	...	60,023	...	31,899
All other products .....	...	...	163,055	...	71,938
TOTAL .....	...	...	1,723,004	...	1,926,579

Table 39 - SALES OF LUBRICATING OILS IN CANADA, 1946 and 1947 (As reported by principal dealers)

	Motor transport and tractor crankcase oil	Aircraft crankcase oils	Other oils (industrial, etc.)	TOTAL ALL PURPOSES
	(Imperial Gallons)			
<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
<u>1947</u>				
Prince Edward Island				
Nova Scotia	3,062,065	44,203	1,509,683	4,615,951
New Brunswick				
Quebec	6,748,981	132,162	4,534,420	11,415,563
Ontario	13,803,179	114,289	12,559,173	26,476,641
Manitoba	2,591,672	66,544	1,138,144	3,796,360
Saskatchewan	4,523,679	14,148	313,991	4,851,818
Alberta	4,844,070	66,541	702,134	5,612,745
British Columbia (including Yukon)	3,563,460	46,366	2,163,017	5,772,843
TOTAL - CANADA	39,137,106	484,253	22,920,562	62,541,921

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1947

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	8,440
<u>New Brunswick -</u>					
New Brunswick 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	27,000	S - C	Tube and tank	12,000
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
Imperial Oil Limited	Sarnia	57,000	S - C	Tube and tank	23,250
McCull-Fontenac Oil Co. Limited	Toronto	11,000	S - C	Combination unit and Jenkins Stills	6,000
British American Oil Co. Limited	Clarkson	8,250	S	...	...
Trinidad Leaseholds (Canada) Limited	Port Credit	4,000	S - C	Dubbs	2,200

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1947 (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>Manitoba -</u>					
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	...	...
<u>Saskatchewan -</u>					
British American Oil Co. Limited	Moose Jaw	4,000	S - C	Liquid and vapour phase	2,000
Saskatchewan Federated Cooperatives	Regina	2,100	S - C	Dubbs	1,050
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	10,000	S - C	Tube and tank	8,200
Northern Petroleum Corporation, Ltd.	Kamsack	500	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	10,000	S - C	Combination unit	4,000
Excelsior Refineries Ltd.	Lloydminster	1,000	S	...	...
Husky Oil & Refining, Ltd.	Lloydminster	2,500	S	...	...
<u>British Columbia -</u>					
Imperial Oil Limited	Ioco	12,000	S - C	Tube and tank	2,750
Shell Oil Company of British Columbia Ltd.	Shellburn	5,300	S - C	U.O.P.	2,700
Standard Oil Company of British Columbia Ltd.	Burnaby	5,000	S	...	...
<u>Northwest Territories -</u>					
Imperial Oil Limited	Norman Wells	1,100	S	...	...

S - Skimming

C - Cracking

DIRECTORY OF PLANTS ENGAGED IN THE COMPOUNDING OF LUBRICATING OILS AND GREASES IN CANADA, 1947

Name of Company	Location of Plant
<u>Quebec -</u>	
Chapman, L. L. and W. H.	Champlain St., Gatineau Point
Tidewater Oil Company of Canada, Ltd.	9500 St. Lawrence Blvd., Montreal
<u>Ontario -</u>	
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
H. V. Morrison	194 John St. S., Hamilton
<u>Alberta -</u>	
Ferguson, R. L., (Bar-Dol Products)	523 - 7th Ave. West, Calgary
<u>British Columbia -</u>	
Benton Distributors Ltd.	280 Beatty St., Vancouver
H. J. Halvorsen (Bar-Dol Products)	5405 W. Boulevard, Vancouver

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