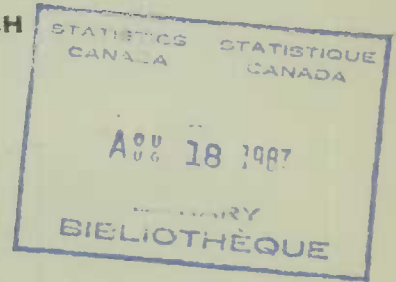


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH



THE PETROLEUM PRODUCTS INDUSTRY
IN
CANADA
1941



OTTAWA
1943

Price 50 cents

Department of Trade and Commerce
Ottawa, Ontario

CANADA

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THE PETROLEUM INDUSTRY

in

CANADA

1961



1961

Dominion Statistician:
 Chief - Mining, Metallurgical and Chemical Branch:
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ANNUAL INDUSTRY REPORTMANUFACTURES OF THE NON-METALLIC MINERALS GROUPPETROLEUM PRODUCTS INDUSTRY, 1941

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

Thirty-five refineries and 14 blending plants, or a total of 49 works, reported under this category in 1941 and the aggregate value of production was \$156,635,495, an increase of 28.2 per cent over the 1940 total of \$122,212,800.

Output figures for 1941 included \$155,389,872 for petroleum refineries and \$1,245,623 for concerns engaged in blending oils and greases, against corresponding totals in 1940 of \$121,012,497 and \$1,200,303, respectively. The principal statistics for each of these groups and for the industry as a whole are tabulated below and the detailed figures for each division are recorded separately in the succeeding pages of this report.

Table 1 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY, 1937 - 1941

Year	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
<u>PETROLEUM REFINING</u>							
1937	44	63,759,579	5,047	8,128,583	4,444,878	79,993,972	97,701,954
1938	47	62,097,038	4,586	7,750,746	4,678,933	75,993,557	96,121,611
1939	42	65,784,933	4,675	7,736,330	4,573,570	73,922,207	103,494,239
1940	38	75,983,928	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941	35	81,910,037	5,317	10,186,382	7,263,685	125,258,514	155,589,872
<u>COMPOUNDING OILS AND GREASES</u>							
1937	13	520,687	90	120,260	5,127	407,908	752,060
1938	12	523,870	89	122,294	4,284	425,959	881,736
1939	11	596,256	91	153,917	5,129	543,394	1,084,279
1940	11	597,815	96	192,214	5,309	557,632	1,200,303
1941	14	565,471	89	140,464	5,005	723,923	1,245,623
<u>TOTAL</u>							
1937	57	64,280,266	5,137	8,246,843	4,450,005	80,401,880	98,454,014
1938	59	62,620,908	4,675	7,873,040	4,683,217	76,419,516	97,003,547
1939	53	66,381,189	4,766	7,890,247	4,578,699	74,465,600	104,578,517
1940	49	76,581,743	5,156	8,808,537	5,751,495	94,860,521	122,212,800
1941	49	82,475,508	5,406	10,326,846	7,268,690	125,982,237	156,635,495

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, 1940 and 1941

Province	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
<u>1940</u>							
Quebec	7	27,244,738	1,055	1,799,917	1,666,606	27,351,569	32,268,186
Ontario	12	25,275,249	2,260	5,926,007	2,079,843	31,746,825	41,583,057
Manitoba	4	1,849,832	140	149,392	61,003	1,627,882	2,317,954
Saskatchewan	10	5,015,539	488	738,770	572,050	8,027,185	11,710,812
Alberta	9	6,764,414	482	817,467	556,422	6,890,155	11,897,374
British Columbia	4	4,556,084	296	576,100	287,069	9,583,052	11,627,173
Nova Scotia	1)						
New Brunswick	1)	5,875,887	455	800,884	528,502	9,633,853	10,808,244
Northwest Territories	1)						
CANADA	49	76,581,743	5,156	8,808,537	5,751,495	94,860,521	122,212,800
<u>1941</u>							
Quebec	7	26,656,036	1,142	2,192,092	2,153,343	37,820,739	44,455,163
Ontario	15	29,262,451	2,344	4,520,461	2,863,854	43,269,989	54,453,303
Manitoba	4	2,195,727	165	213,923	88,406	2,025,373	2,810,573
Saskatchewan	9	5,446,340	474	863,797	598,763	9,427,910	14,162,758
Alberta	7	6,574,472	455	849,600	557,166	8,902,106	14,329,999
British Columbia	4	4,247,973	358	687,299	321,210	10,107,981	12,333,758
Nova Scotia	1)						
New Brunswick	1)	8,092,509	488	999,674	685,948	14,428,139	14,089,941
Northwest Territories	1)						
CANADA	49	82,475,508	5,406	10,326,846	7,268,690	125,962,237	156,635,495

(a) THE PETROLEUM REFINING INDUSTRY, 1941

Thirty-five petroleum refineries operating in Canada during 1941 were distributed by provinces as follows: 9 in Saskatchewan, 7 in Alberta, 5 in Ontario, 4 in Quebec, 4 in Manitoba, 3 in British Columbia and 1 in each of Nova Scotia, New Brunswick and Northwest Territories. Compared with 1940, there was a loss of 2 refineries in Alberta and 1 in Saskatchewan. The operating refineries had a capacity of 232,290 barrels of crude oil per day, of which Ontario had 68,000 barrels or 29.3 per cent; Quebec, 67,000 barrels or 28.8 per cent; Nova Scotia, 34,000 barrels or 14.6 per cent; British Columbia, 24,500 barrels or 10.6 per cent; Saskatchewan, 17,300 barrels or 7.4 per cent; Alberta, 16,250 barrels or 7.0 per cent; Manitoba, 4,150 barrels or 1.8 per cent; the Northwest Territories, 840 barrels or .4 per cent, and New Brunswick, 250 barrels. Location, type and capacity for each of these refineries is recorded in the directory at the end of this report.

During the year, 1,831,038,433 gallons of imported crude oil and 332,339,374 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 2,033,898,067 gallons was put through Canadian refineries, this amounting to about 67 per cent of the rated capacity. Of the total crude input, about 47 per cent was imported from the United States and nearly 35 per cent from other countries, while about 17 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 \$113,574,954. Stocks of crude oil held at the refineries on December 31 amounted to 144,786,917 gallons.

Refinery production of gasoline in 1941 amounted to 857,924,454 gallons, and in addition the refineries used for blending about 47,301,143 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1941 was the highest on record, being 10 per cent over 1940, which in turn was 5 per cent over 1939. The refinery selling value of the gasoline made during the year was \$90,150,775. Stocks of gasoline held by the reporting firms on December 31 included 117,170,696 gallons of straight run or cracked gasoline and 4,249,650 gallons of imported casinghead gasoline. In 1941 there was an output of 10,232,175 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 88,522,531 gallons during 1941, which, added to the production of 857,924,454 gallons plus the decline in stocks of 7,712,347 gallons and less the exports

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of 15,845,229 gallons, made an apparent Canadian consumption of 938,516,103 gallons. Actual sales reported to the Provincial Governments under the Gasoline Tax Acts amounted to 980,426,039 gallons.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 834,848,910 gallons, of which 771,897,171 gallons were made for sale and 62,951,739 gallons for use as fuel in the producing plant. Imports amounted to 63,585,706 gallons and exports to 18,469,619 gallons. Refinery stocks at the end of the year stood at 98,703,708 gallons, or about 993,000 gallons more than in 1940. The apparent consumption of fuel and gas oils in Canada, as calculated from the above figures, amounted to 868,595,460 gallons.

Output of tractor and engine distillates was 40,810,126 gallons in 1941, imports amounted to 965,827 gallons, and producers' stocks increased 1,239,674 gallons. The apparent Canadian consumption was 40,536,279 gallons.

Capital employed in the petroleum refining industry in 1941 was reported at \$81,910,037, of which \$37,781,937 was the value placed on land, buildings, machinery and equipment; \$39,862,266 represented inventories of finished products and processing materials, and \$4,265,834 were for operating capital, such as, cash, bills and accounts receivable. The monthly employment averaged 5,317 persons who received \$10,186,532 in salaries and wages. Expenditures for fuel and electricity amounted to \$7,263,685 and \$125,258,314 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1938 - 1941

Province	1938		1939		1940		1941	
	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	20,000	1	32,500	1	32,500	1	34,000
New Brunswick	1	250	1	250	1	250	1	250
Quebec	5	65,500	4	64,500	4	64,500	4	67,000
Ontario	5	41,500	5	44,500	5	57,500	5	68,000
Manitoba	5	3,360	5	2,550	4	4,150	4	4,150
Saskatchewan	12	14,475	11	14,620	10	16,220	9	17,500
Alberta	14	13,600	11	18,250	9	16,850	7	16,250
British Columbia	3	22,500	3	22,700	3	24,500	3	24,500
Northwest Territories	1	150	1	150	1	800	1	840
CANADA	47	181,335	42	200,020	38	217,270	35	232,290

NOTE: 1 barrel = 35 Imperial gallons.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1922 - 1941

Year	Number of refineries	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1922	13	61,253,400	3,498	5,391,285	4,227,615	38,129,880	56,495,821
1923	14	60,288,861	4,195	5,531,589	4,054,846	36,435,306	45,571,506
1924	17	53,095,784	3,603	5,623,978	3,580,032	36,669,292	48,677,347
1925	15	49,461,900	3,655	5,621,898	3,433,017	37,814,303	49,802,615
1926	17	56,476,449	3,698	5,782,589	3,580,049	50,783,871	70,570,240
1927	16	55,442,193	3,802	6,078,226	3,628,842	52,743,530	65,979,849
1928	16	55,811,418	4,252	6,803,234	3,440,578	57,033,185	82,448,592
1929	15	69,887,267	4,883	7,984,786	3,745,958	76,289,182	98,384,180
1930	15	69,077,982	5,030	8,003,357	3,859,683	71,307,879	90,809,711
1931	20	67,288,556	4,058	6,110,068	3,371,118	50,353,423	75,588,425
1932	24	68,882,376	4,058	5,897,811	3,338,648	52,029,471	71,560,324
1933	37	67,566,886	4,551	6,041,230	3,130,719	48,916,966	69,803,721
1934	42	66,450,496	4,878	6,274,799	3,117,697	56,659,492	75,725,677
1935	45	64,012,045	4,771	7,046,675	3,839,424	55,415,916	79,176,081
1936	50	61,307,820	4,935	7,193,148	3,927,321	66,219,148	85,172,981
1937	44	63,759,579	5,047	8,126,583	4,444,878	79,993,972	97,701,954
1938	47	62,097,038	4,586	7,750,746	4,678,933	75,995,557	96,121,611
1939	42	65,784,933	4,675	7,736,330	4,573,570	73,922,207	103,494,238
1940	38	75,983,928	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941	35	81,910,037	5,317	10,186,382	7,263,685	125,258,314	155,389,872

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Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, BY PROVINCES, 1940 and 1941

Province	Number of refineries	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>1940</u>							
Quebec	4	27,143,581	1,027	1,753,895	1,663,634	27,279,461	32,124,559
Ontario	5	24,781,081	2,193	3,781,440	2,077,639	31,263,902	40,531,431
Manitoba	4	1,849,832	140	149,392	61,003	1,627,882	2,317,954
Saskatchewan	10	5,015,539	488	738,770	572,050	8,027,185	11,710,812
Alberta	9	6,764,414	482	817,467	556,422	6,890,155	11,897,374
British Columbia ..	3	4,553,594	295	574,449	286,936	9,580,451	11,622,123
Other provinces (x)	5	5,875,887	435	800,884	528,502	9,633,853	10,808,244
CANADA	38	75,983,928	5,060	8,616,296	5,746,186	94,302,889	121,012,497
<u>1941</u>							
Quebec	4	26,542,918	1,112	2,142,629	2,150,408	37,746,149	44,293,624
Ontario	5	28,814,379	2,287	4,432,949	2,862,084	42,627,542	53,380,114
Manitoba	4	2,195,727	165	213,923	88,406	2,025,373	2,810,573
Saskatchewan	9	5,446,340	474	863,797	598,763	9,427,910	14,162,758
Alberta	7	6,574,472	455	849,600	557,166	8,902,106	14,329,999
British Columbia ..	3	4,243,692	336	683,910	320,910	10,101,095	12,322,863
Other provinces (x)	5	8,092,509	488	999,674	685,948	14,428,139	14,089,941
CANADA	35	81,910,037	5,317	10,186,382	7,263,685	125,258,314	155,389,872

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

Table 6 - CAPITAL EMPLOYED IN THE PETROLEUM REFINING INDUSTRY, 1940 and 1941

Province	Present value of lands, buildings, machinery and equipment	Inventory value of finished products and materials on hand and stocks in process	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1940</u>				
Quebec	12,341,900	14,733,134	68,547	27,143,581
Ontario	11,658,919	12,033,639	1,088,523	24,781,081
Manitoba	1,235,494	367,740	246,598	1,849,832
Saskatchewan	2,612,251	2,105,901	297,407	5,015,539
Alberta	4,225,656	2,180,080	358,678	6,764,414
British Columbia	1,863,652	2,686,188	3,754	4,553,594
Other provinces	2,566,010	3,103,047	206,850	5,875,887
CANADA	36,503,862	37,209,729	2,270,337	75,983,928
<u>1941</u>				
Quebec	11,845,836	14,449,766	247,516	26,542,918
Ontario	13,644,617	13,926,329	1,243,435	28,814,379
Manitoba	1,330,588	558,358	306,781	2,195,727
Saskatchewan	3,047,253	1,888,174	510,913	5,446,340
Alberta	3,942,861	2,283,095	348,516	6,574,472
British Columbia	1,521,362	2,667,665	54,665	4,243,692
Other provinces	2,449,420	4,078,879	1,554,210	8,092,509
CANADA	37,781,937	39,862,266	4,265,834	81,910,037

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Table 7 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1940 and 1941

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
1940								
Quebec	174	20	852	1	1,027	517,191	1,256,704	1,753,895
Ontario	316	46	1,824	7	2,193	1,007,056	2,774,384	3,781,440
Manitoba	34	8	98	...	140	68,513	80,879	149,392
Saskatchewan	102	28	357	1	488	228,691	510,079	738,770
Alberta	96	16	369	1	482	256,690	560,777	817,467
British Columbia.	52	11	251	1	295	172,394	402,054	574,448
Other provinces..	48	19	367	1	435	202,490	598,394	800,884
CANADA	822	148	4,078	12	5,060	2,453,025	6,163,271	8,616,296
1941								
Quebec	181	21	908	2	1,112	568,223	1,574,406	2,142,629
Ontario	333	75	1,873	6	2,287	1,123,508	3,309,441	4,432,949
Manitoba	41	10	114	...	165	87,800	126,123	213,923
Saskatchewan	90	23	559	2	474	265,866	597,931	863,797
Alberta	80	18	357	...	455	264,534	585,066	849,600
British Columbia.	54	10	269	3	336	184,445	499,365	683,810
Other provinces..	52	22	413	1	488	225,789	773,885	999,674
CANADA	851	179	4,293	14	5,517	2,720,165	7,466,217	10,186,382

Table 8 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1941

Month	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other provinces	CANADA
January	870	1,756	97	323	332	257	376	4,011
February	854	1,748	99	330	330	258	361	3,980
March	894	1,768	111	344	329	260	350	4,056
April	908	1,816	105	378	343	257	360	4,167
May	896	1,913	125	391	365	266	393	4,349
June	962	1,931	128	393	379	272	439	4,504
July	957	2,012	123	394	376	291	468	4,631
August	968	1,981	122	377	367	293	466	4,574
September	937	1,927	122	372	374	280	462	4,474
October	905	1,912	117	370	372	276	427	4,379
November	880	1,895	114	354	369	277	432	4,321
December	895	1,896	114	319	362	269	437	4,292
AVERAGE	910	1,879	114	361	357	272	414	4,307

Table 9 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940 and 1941 (In one week of month of highest employment; overtime included)

Hours worked per week	Number of wage-earners		Hours worked per week	Number of wage-earners	
	1940	1941		1940	1941
50 hours or less	22	87	55 hours	27	70
51 - 43 hours	3,051	2,034	56 - 64 hours	339	197
44 hours	96	1,234	65 hours and over ...	190	59
45 - 47 hours	72	47	TOTAL	4,484	4,731
48 hours	367	708	Total wages paid during selected week .. \$	143,808	162,337
49 - 50 hours	80	91			
51 - 54 hours	240	204			

Table 10 - FUEL(x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1940 and 1941

Kind	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	ton	4	28	5	35
Imported	ton	15,828	78,266	35,151	196,414
Coke, including petroleum coke	ton	4,871	24,264	3,133	20,157
Gasoline	Imp. gal.	246,516	26,589	418,134	67,444
Kerosene	Imp. gal.	17	5	32,712	2,982
Fuel oil	Imp. gal.	61,116,065	2,433,433	62,869,774	2,739,119
Wood	cord	450	1,454	518	1,648
Gas - Manufactured, including still gas	M cu. ft.	8,566,402	2,132,112	9,970,599	3,119,323
Natural	M cu. ft.	4,206,670	317,285	3,992,284	301,784
Other fuel .....	...	...	207,588	...	226,669
Electricity purchased	K.W.H.	72,633,717	525,162	82,780,511	588,210
TOTAL .....	...	...	5,746,186	...	7,263,685
Electricity generated for own use	K.W.H.	640,720	...	219,415	...

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

Table 11 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1940 and 1941

	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 0</u>				
Steam engines and steam turbines	491	19,663	33	775
Diesel engines	10	1,094	...	...
Gasoline, gas and oil engines (except diesel) ..	61	3,469	2	76
Total Primary Equipment	562	24,226	35	851
Electric motors run by purchased power	1,549	28,136	49	694
TOTAL	2,111	52,362	84	1,545
Electric motors run by power generated by primary equipment above	25	75	...	...
Stationary boilers	136	32,849	3	260
<u>1 9 4 1</u>				
Steam engines and steam turbines	480	21,971	28	705
Diesel engines	11	1,144	...	...
Gasoline, gas and oil engines (except diesel) ..	65	2,854	2	76
Total Primary Equipment	556	25,969	30	781
Electric motors run by purchased power	1,662	30,342	69	848
TOTAL	2,218	56,311	99	1,629
Electric motors run by power generated by primary equipment above	32	105
Stationary boilers	123	31,756	3	260

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Table 12 - MATERIALS USED IN PETROLEUM REFINERIES, 1940 and 1941

Material	Unit of measure	1940		1941	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells	Imp.gal.	293,601,299	13,651,059	342,774,192	17,627,799
Crude naphtha (60° A.P.I. and over) in its natural state, from Canadian wells	Imp.gal.	...	...	...	...
Absorption gasoline, etc., from Canadian wells (run to stills)	Imp.gal.	8,634,531	531,410	10,065,382	643,968
Crude oil, in its natural state, imported, (run to stills)—(a) From United States ..	Imp.gal.	996,917,614	50,083,035	948,975,940	55,577,605
(b) From Other Countries.	Imp.gal.	445,437,156	21,434,013	731,145,673	39,677,817
Crude oil, not in its natural state (run to stills)	Imp.gal.	903,681	41,108	936,880	47,765
Benzol for blending	Imp.gal.	1,782,372	284,410	4,755,868	568,575
Phenol	pound	203,150	31,270	470,309	69,308
Sulphuric acid, 66° Be	pound	27,995,157	301,446	29,516,857	315,083
Sulphur	pound	122,131	5,110	102,634	2,649
Caustic soda	pound	6,122,558	177,477	7,170,755	205,338
Soda ash	pound	664,826	13,662	410,733	8,920
Litharge	pound	323,510	26,121	257,296	22,430
Fullers' earth and clay	pound	23,823,660	406,185	30,155,750	571,010
Compounding materials .....	...	...	945,628	...	1,366,825
Tetraethyl fluid .....	...	...	4,309,173	...	3,944,940
Aviation blending materials .....	...	...	...	...	1,458,307
Other materials .....	...	...	1,017,069	...	2,013,931
Shipping containers .....	...	...	1,046,713	...	1,115,966
TOTAL .....	...	...	94,302,889	...	125,258,314

Table 13 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1941

Material	Unit of measure	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells.	Imp.gal.	...	5,409,555	18,498,966	152,149,980	164,799,079	...	1,916,612
	\$	...	345,008	1,322,932	8,878,543	6,990,522	...	90,794
Absorption gasoline, etc. from Canadian wells (run to stills)	Imp.gal.	...	...	...	65,108	10,000,274	...	...
	\$	...	...	...	9,773	634,195	...	...
Crude oil, in its natural state, imported (run to stills) -								
(a) From United States	Imp.gal.	208,053,404	573,473,961	6,647,536	...	56,245	160,744,794	...
	\$	13,397,923	33,764,476	620,760	...	2,812	7,591,634	...
(b) From Other Countries..	Imp.gal.	368,674,041	51,665,718	...	...	...	36,981,852	275,324,062
	\$	21,917,519	2,519,459	...	...	...	2,099,453	13,341,381
Crude oil, not in its natural state, imported from United States	Imp.gal.	...	...	...	191,450	...	745,430	...
	\$	...	...	...	9,708	...	33,057	...
Benzol for blending	Imp.gal.	2,003,983	2,015,209	69,820	2,040	243	...	662,568
	\$	245,017	228,740	13,489	807	86	...	80,436

Table 13 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1941 (Concluded)

Material	Unit of measure	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces
Sulphuric acid								
66° Bé	Pound	695,905	22,978,437	51,015	2,237,547	1,838,732	1,515,221	...
	⌘	6,532	234,032	2,087	36,709	20,928	14,797	...
Sulphur	Pound	14,920	52,414	100	1,900	33,300	...	...
	⌘	456	1,438	4	85	666	...	...
Caustic soda	Pound	2,073,217	1,672,220	104,174	1,038,859	1,098,537	303,327	880,421
	⌘	49,685	41,988	4,448	34,539	38,823	10,102	25,751
Soda ash	Pound	48,033	17,100	6,700	212,506	39,500	27,500	59,399
	⌘	1,018	265	175	4,566	1,120	652	1,124
Litharge	Pound	48,680	146,458	326	2,304	58,914	134	480
	⌘	3,533	13,528	39	241	5,025	11	53
Fullers' earth and clay	Pound	2,326,588	22,616,493	...	1,166,425	2,087,000	...	1,959,244
	⌘	35,642	461,751	...	15,931	25,147	...	32,539
Compounding materials	⌘	...	1,379,249	...	...	...	7,576	...
Tetraethyl fluid.	⌘	1,117,035	1,360,786	50,697	346,814	493,232	243,373	333,003
Other materials..	⌘	971,789	1,167,805	7,882	89,899	689,552	94,435	520,244
Shipping containers	⌘	...	1,109,017	2,860	1,295	...	...	2,814
TOTAL	⌘	57,746,149	42,627,542	2,025,373	9,427,910	8,902,106	10,101,095	14,428,139

(⌘ - Cost at works)

Table 14 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES IN CANADA, 1919 - 1941

Year	Crude oil used Imp. gal.	Year	Crude oil used Imp. gal.
1919	301,006,533	1930	1,064,434,974
1920	295,576,527	1931	1,074,788,038
1921	373,469,418	1932	930,114,055
1922	394,159,055	1933	1,044,210,850
1923	408,810,739	1934	1,109,510,343
1924	467,144,634	1935	1,196,411,443
1925	445,115,694	1936	1,286,462,895
1926	585,466,329	1937	1,433,581,694
1927	716,369,890	1938	1,418,659,164
1928	849,933,770	1939	1,569,903,295
1929	1,072,828,496	1940	1,745,494,281
		1941	2,033,898,067

Table 15 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1931 - 1941

Year	Canadian (a)	Imported (b)	TOTAL
	Imp. gal.	Imp. gal.	Imp. gal.
1931	49,668,529	1,025,119,509	1,074,788,038
1932	57,340,321	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	1,155,825,970	1,196,411,443
1936	42,792,311	1,243,670,584	1,286,462,895
1937	90,004,869	1,343,577,025	1,433,581,694
1938	236,492,200	1,182,166,964	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

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

(b) Includes reduced crude.

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Table 16 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1941 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp.gal.	47,899,002
	\$	4,454,513
Imported natural casinghead gasoline used for blending during the year	Imp.gal.	47,301,143
Total stocks of imported natural casinghead gasoline at the end of of year ..	Imp.gal.	4,249,650

Table 17 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1940 and 1941

Product	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
<u>MADE FOR SALE -</u>					
Gasoline - Straight run (1)	Imp.gal.	409,289,135	37,868,711	407,405,924	44,722,348
- By cracking process (2) ...	Imp.gal.	370,455,070	33,333,794	450,512,427	45,535,487
Stove oil (40° - 42.5° A.P.I.)	Imp.gal.	19,933,578	889,874	23,231,604	1,307,618
Gas and light fuel oil (20° - 40° A.P.I., except diesel)	Imp.gal.	114,793,038	5,753,019	135,322,293	7,512,639
Diesel fuel oil (all fuel oil sold under this name)	Imp.gal.	62,968,656	3,261,731	79,104,809	4,192,138
Residual fuel oil (10° - 20° A.P.I.)..	Imp.gal.	439,928,344	17,050,341	534,238,465	23,197,496
Tractor and engine distillate	Imp.gal.	23,795,943	2,138,333	40,807,811	3,748,290
V.M. and P. or solvent naphtha	Imp.gal.	12,686,637	1,167,633	12,092,093	1,230,697
Kerosene	Imp.gal.	25,946,909	2,387,294	26,758,097	2,741,984
Lubricating oil	Imp.gal.	28,380,256	5,530,531	36,433,253	7,089,121
Lubricating grease	pound	9,441,500	549,456	15,562,856	861,604
Asphalt	Imp.gal.	60,312,753	5,226,935	72,752,742	6,168,440
Petroleum coke	ton	63,458	416,262	67,702	471,564
Other products .....	...	...	554,763	...	479,572
TOTAL - MADE FOR SALE .....	...	...	116,128,737	...	149,258,998
<u>MADE FOR OWN USE -</u>					
Gasoline - Straight run	Imp.gal.	223,028	22,537	192,848	21,650
- By cracking process	Imp.gal.	15,873	1,902	13,255	1,684
Gas and light fuel oil (20° - 40° A.P.I.)	Imp.gal.	113,769	4,868	100,396	4,545
Diesel fuel oil	Imp.gal.	5,427	530	18,831	1,230
Residual fuel oil (10° - 20° A.P.I.)..	Imp.gal.	61,165,490	2,431,454	62,832,512	2,727,422
Tractor and engine distillate	Imp.gal.	1,820	197	2,315	170
Kerosene	Imp.gal.	26,550	2,326	41,741	3,775
Lubricating oil	Imp.gal.	83,582	15,324	93,918	17,453
Asphalt	Imp.gal.	68,260	5,411	62,003	5,485
Petroleum coke	ton	4,876	25,328	3,138	21,774
Still gas	M cu.ft.	8,706,834	2,164,514	9,971,268	3,109,920
Other products .....	...	...	209,367	...	215,766
TOTAL - MADE FOR OWN USE .....	...	...	4,383,760	...	6,130,874
GRAND TOTAL .....	...	...	121,012,497	...	155,389,872
Fuel and gas oils and topped crude, for use in cracking process	Imp.gal.	656,962,708	...	765,115,376	...

(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.

Table 18 - PRODUCTS MADE IN PETROLEUM REFINERIES, BY PROVINCES, 1941

Product	Unit of measure	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces
MADE FOR SALE -								
Gasoline	Imp.gal.	235,065,896	291,407,541	11,800,667	86,504,741	112,950,105	51,780,020	68,209,381
	\$	27,472,573	28,639,218	1,736,202	9,503,395	11,304,621	6,348,091	5,253,735
Fuel oil and gas oil	Imp.gal.	209,262,409	199,048,453	6,486,608	18,607,968	27,498,562	130,199,424	180,793,747
	\$	10,655,322	10,135,015	496,832	975,041	1,177,252	5,133,159	7,637,270
Tractor and engine distillate	Imp.gal.	2,729,405	1,970,619	3,573,939	21,285,119	11,247,820	909	...
	\$	194,807	165,567	441,864	2,127,890	818,215	147	...
V. M. & P. or solvent naphtha	Imp.gal.	3,342,815	6,673,599	74,501	571,219	334,616	793,098	302,245
	\$	371,852	652,305	15,410	65,025	33,349	91,206	21,550
Kerosene	Imp.gal.	4,101,545	15,758,856	271,309	4,457,668	2,168,719	...	...
	\$	432,965	1,427,860	45,752	600,134	235,273	...	...
Lubricating oil	Imp.gal.	852,045	35,020,290	...	...	...	560,918	...
	\$	155,157	6,831,709	...	...	...	102,255	...
Grease	Pound	...	15,562,856	...	...	...	...	...
	\$	...	861,604	...	...	...	...	...
Asphalt	Imp.gal.	34,806,721	15,816,905	...	4,165,996	7,023,565	3,932,394	7,007,161
	\$	2,889,071	1,464,645	...	349,854	561,069	363,549	540,252
Petroleum coke	Ton	3,673	63,234	...	261	76	...	458
	\$	17,385	450,976	...	1,819	125	...	1,259
Other products	\$	112,027	325,692	...	41,853	...	...	...
TOTAL - MADE FOR SALE	\$	42,300,959	50,934,591	2,736,060	13,665,011	14,129,904	12,038,407	13,454,066
MADE FOR OWN USE -								
Gasoline	Imp.gal.	27,190	103,514	11,965	22,486	6,117	6,356	28,475
	\$	3,123	9,485	2,215	4,749	528	731	2,503
Fuel oil and gas oil	Imp.gal.	20,084,444	18,820,587	1,627,582	6,468,409	836,398	6,786,660	8,308,828
	\$	913,404	853,834	72,298	265,262	18,186	255,071	353,912
Kerosene	Imp.gal.	...	33,794	...	2,947	...	...	...
	\$	...	3,418	...	357	...	...	...
Lubricating oil	Imp.gal.	...	91,039	...	...	...	2,879	...
	\$	...	16,928	...	...	...	525	...
Petroleum coke	Ton	...	1,974	...	1,155	...	...	9
	\$	...	13,706	...	8,044	...	...	24
Still gas	M cu.ft.	2,954,970	4,223,521	...	758,844	1,086,460	120,002	827,471
	\$	1,075,223	1,355,995	...	195,243	176,436	27,767	279,256
Other products	\$	915	192,157	...	24,092	4,945	362	180
TOTAL - MADE FOR OWN USE...	\$	1,992,665	2,445,523	74,153	497,747	200,095	284,456	635,875
GRAND TOTAL	\$	44,293,624	53,380,114	2,810,573	14,151,167	14,329,999	12,322,863	14,089,941
Fuel and gas oils made for use in cracking process	Imp.gal.	160,532,670	345,762,932	3,950,000	43,372,059	59,230,635	20,762,350	131,504,730

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(\$ = Gross selling value at works).

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Table 19 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1941

	Stocks on hand at refineries on December 31, 1941	Increase or decrease over December 31, 1940
	Imp. Gal.	Imp. Gal.
Crude oil and naphtha, in its natural state, from Canadian wells ...	14,549,997	- 5,779,802
Absorption gasoline, etc., from Canadian wells	746,690	- 20,801
Crude oil, imported - in its natural state	129,395,057	-52,018,178
- not in its natural state	295,172	+ 25,657
Total Crude	144,786,916	-55,793,142
Gasoline (excluding imported casinghead or Canadian absorption gasoline)	117,170,696	+ 6,586,520
Stove oil (40° - 42.5° A.P.I.)	5,237,419	+ 377,852
Gas and light fuel oil (20° - 40° A.P.I., excepting diesel)	32,292,792	+12,985,998
Diesel fuel oil	4,499,624	- 1,153,027
Residual fuel oil (10° - 20° A.P.I.)	51,673,873	-11,152,984
Fuel oil for use in cracking process	11,819,038	-17,678,872
Tractor and engine distillate	5,150,615	+ 1,239,674
V. M. & P. or solvent naphtha	3,207,744	+ 3,207,744
Kerosene	6,205,442	- 1,528,007
Lubricating oils	4,478,449	- 74,425
Total Refined	241,735,692	- 7,254,725

Table 20 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1940 and 1941

Areas	1 9 4 0		1 9 4 1	
	Barrels	Value	Barrels	Value
NEW BRUNSWICK	22,167	\$ 31,220	31,559	\$ 44,102
ONTARIO -				
Petrolia and Enniskillen	55,589	116,658	55,585	
Oil Springs	31,392	69,016	29,783	
Moore Township	1,307	2,743	1,335	
Sarnia Township	570	776	213	Not
Plympton Township	89	187	95	
Bothwell Township and Thamesville	36,684	76,982	33,055	
Dover	11,856	24,880	9,574	avail-
Onondaga	957	2,169	300	
Moss Township	17,288	36,279	19,075	
Brooke	51	107	113	able
Punwich	337	707	420	
Raleigh and Romney	76	160	245	
Dawn and Euphemia	2,294	4,814	834	
Warwick	29,554	61,600	9,748	
Chatham .....	...	...	27	
Maritoulin Island .....	...	...	44	
TOTAL FOR ONTARIO	187,644	397,078	160,253	337,760
SASKATCHEWAN	551	256	...	...
ALBERTA -				
Turner Valley	8,326,141	10,668,155)		
Red Coulee	12,080	10,872)	9,918,577	15,985,906
Wainwright-Taber-Moose Dome	23,982	15,367)		
TOTAL FOR ALBERTA	8,362,203	10,694,594	9,918,577	15,985,906
NORTHWEST TERRITORIES	18,633	37,265	23,664	47,528
CANADA	8,590,978	11,160,215	10,133,838	14,415,096

Table 21 - REFINERY PRODUCTION OF GASOLINE IN CANADA, 1950 - 1941

Year	Straight run	By cracking	TOTAL	Per cent of total made by cracking
	Imp.gal.	Imp.gal.	Imp.gal.	
1950	276,284,656	169,314,761	445,599,417	58
1951	278,215,832	191,632,502	469,925,375	41
1952	207,823,273	192,113,405	399,936,678	48
1953	267,086,230	155,850,563	422,936,793	37
1954	294,980,092	166,773,271	461,753,363	36
1955	292,520,425	221,195,579	513,716,004	43
1956	316,207,576	251,451,700	567,659,276	44
1957	361,900,397	278,399,479	640,299,878	43
1958	362,583,649	291,445,476	654,029,125	45
1959	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

Table 22 - APPARENT SUPPLY IN CANADA OF GASOLINE, FUEL OIL, ENGINE DISTILLATE, KEROSENE AND LUBRICATING OIL, 1940 - 1941

	Fuel and gas oils (a)	Gasoline	Lubricating oils	Kerosene	Tractor and engine distillate
	Imp.gal.	Imp.gal.	Imp.gal.	Imp.gal.	Imp.gal.
1940					
Production	(b)698,913,302	779,983,106	30,006,720	25,973,459	23,797,763
Plus imports entered for consumption	101,806,725	105,586,068	18,506,716	5,783,003	713,482
Less exports and re-exports	800,720,027	885,569,174	48,513,436	31,756,462	24,511,245
	2,699,135	4,320,701	...	636,800	...
Plus decline in refinery stocks.	798,020,892	881,248,473	48,513,436	31,119,662	24,511,245
	...	15,280,355	...	...	3,428,565
Less increase in refinery stocks	798,020,892	896,528,828	48,513,436	31,119,662	27,939,810
	21,434,566	...	252,344	1,980,093	...
APPARENT CONSUMPTION	776,586,326	896,528,828	48,261,092	29,139,569	27,939,810
1941					
Production	834,848,910	857,924,454	38,008,499	26,799,838	40,810,126
Plus imports entered for consumption	63,385,706	88,522,531	14,893,783	1,065,445	965,827
Less exports and re-exports	898,234,616	946,446,985	52,907,282	27,865,283	41,775,953
	18,469,619	15,843,229	...	1,013,324	...
Plus decline in stocks (c)	879,764,997	930,603,756	52,907,282	26,851,959	41,775,953
	...	7,712,347	74,423	2,612,668	...
Less increase in stocks (c)	879,764,997	938,316,103	52,981,705	29,464,627	41,775,953
	11,169,537	...	...	...	1,239,674
APPARENT CONSUMPTION	868,595,460	938,316,103	52,981,705	29,464,627	40,536,279

(a) Import figures for fuel oil 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 might properly be omitted when compiling figures of Canadian consumption. In 1940 the amount under this item was 54,453,217 gallons, and in 1941 it was 32,242,767 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.

Table 23 - APPARENT SUPPLY OF FUEL OIL, GASOLINE, KEROSENE, ENGINE DISTILLATE, and LUBRICATING OILS, 1931 - 1941

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

Year	Fuel and gas oils	Gasoline	Engine distillate (Imperial gallons)	Kerosene	Lubricating oils
1931	488,371,080	565,266,046	Not	46,543,627	29,270,357
1932	460,366,156	505,231,853		54,534,585	26,123,986
1933	481,688,950	463,176,444	avail-	42,362,473	30,557,495
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	31,158,985	34,823,724
1937	563,807,090	709,275,664	31,189,319	26,682,696	39,625,132
1938	592,659,806	769,928,869	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	868,595,460	938,316,103	40,536,279	29,464,627	52,981,705

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1938 - 1941 (Gross sales—sold for all purposes; Net sales—sold for use in automobiles) - Computed from Gasoline Tax returns.

Province	1 9 3 8	1 9 3 9	1 9 4 0	1 9 4 1
	(Imperial gallons)			
Prince Edward Island	3,631,360	4,128,907	4,094,203	5,174,759
Nova Scotia	29,632,787	31,621,971	34,961,212	41,354,887
New Brunswick	21,998,728	23,192,413	24,829,924	26,288,682
Quebec	135,026,866	138,925,246	148,499,644	165,839,507
Ontario	337,880,996	345,105,728	371,905,633	410,711,924
Manitoba	38,596,582	41,455,558	48,893,738	54,212,671
Saskatchewan	65,090,674	87,877,403	101,101,143	112,779,554
Alberta (x)	73,724,520	75,535,323	83,808,689	93,068,504
British Columbia	57,157,813	59,823,751	65,198,108	70,995,551
TOTAL GROSS SALES	762,740,326	807,666,298	883,290,294	980,426,059
REFUNDS	130,722,877	144,504,737	181,175,411	233,899,757
TOTAL NET SALES	632,017,449	663,161,561	702,114,883	746,526,282

(x) Includes diesel oil to March 31, 1938.

Table 25 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1938 - 1941

Month	1 9 3 8	1 9 3 9	1 9 4 0	1 9 4 1
	(Imperial gallons)			
January	35,407,164	40,077,850	44,772,623	48,959,776
February	33,146,647	33,452,296	41,690,460	46,312,513
March	41,373,278	43,065,980	43,822,862	53,796,887
April	54,401,471	48,866,349	56,039,829	63,077,098
May	74,511,526	78,809,692	91,110,599	97,697,796
June	77,799,950	77,668,907	88,003,837	98,313,249
July	80,660,413	87,258,978	93,334,938	110,014,064
August	90,584,831	97,200,212	103,444,717	105,148,605
September	85,737,623	95,290,364	97,901,488	94,391,984
October	77,036,848	82,708,454	94,116,475	95,363,290
November	63,560,199	67,842,577	71,711,105	77,817,972
December	48,520,376	55,424,639	57,341,561	69,532,806
TOTAL	762,740,326	807,666,298	883,290,294	980,426,059

Table 26 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1941, and TOTALS FOR 1940

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	(Thousands of Imperial gallons)				
January	97,920	2,048,141	1,245,582	7,808,238	24,257,336
February	107,203	1,658,901	1,213,399	7,252,690	23,522,312
March	207,934	2,046,416	1,329,804	8,067,067	26,718,873
April	296,521	6,252,610	1,621,042	12,170,539	36,348,337
May	533,327	3,564,592	2,419,223	15,180,721	36,781,655
June	626,949	3,884,744	2,990,915	16,864,971	38,606,009
July	712,113	4,358,721	3,221,559	19,847,091	43,993,464
August	696,195	4,062,575	3,026,960	18,574,248	41,527,953
September	533,247	3,617,668	2,736,131	17,055,331	37,958,248
October	666,983	3,748,034	2,615,553	16,866,982	36,847,483
November	362,028	3,267,903	2,173,675	14,373,217	33,085,054
December	334,339	2,844,582	1,694,839	11,778,412	31,065,200
TOTALS FOR 1941	5,174,759	41,354,887	26,288,682	165,839,507	410,711,924
TOTALS FOR 1940	4,094,203	34,961,212	24,829,924	148,499,644	371,903,633

	Manitoba	Saskatchewan	Alberta	British Columbia	TOTAL
January	2,073,301	2,440,284	4,384,118	4,604,856	48,959,776
February	1,994,498	2,453,672	3,535,695	4,574,143	46,312,513
March	2,415,407	3,549,208	4,411,541	5,050,637	53,796,887
April	3,981,547	7,456,025	8,900,463	6,050,014	83,077,798
May	5,455,286	17,313,143	10,419,074	6,030,775	97,600,796
June	5,380,748	14,254,753	9,344,608	6,359,552	98,313,249
July	6,562,449	14,757,610	8,906,836	7,654,221	110,014,064
August	6,354,816	12,728,082	11,017,750	7,160,026	105,148,605
September	5,656,192	13,286,256	7,079,484	6,469,427	94,391,984
October	5,979,028	11,629,731	11,029,814	5,979,682	95,363,290
November	4,142,923	7,215,068	7,528,493	5,669,611	77,817,972
December	4,216,476	5,695,722	6,510,628	5,392,607	69,532,805
TOTALS FOR 1941	54,212,671	112,779,554	93,068,504	70,995,551	980,426,039
TOTALS FOR 1940	48,893,738	101,101,143	83,808,689	65,198,108	883,290,294

Table 27 - NET SALES OF GASOLINE IN CANADA, BY PROVINCES, 1938 - 1941

(Net Sales--Gallons sold on which no refunds have been granted, chiefly for motor vehicles)

Province	1938	1939	1940	1941
	(Imperial gallons)			
Prince Edward Island	2,891,204	3,205,532	3,030,054	2,889,089
Nova Scotia	25,575,322	26,836,029	29,367,015	31,954,514
New Brunswick	18,905,155	19,479,851	21,328,394	20,479,114
Quebec	128,768,743	131,113,441	139,430,661	150,948,949
Ontario	310,461,674	316,505,920	328,484,418	346,515,906
Manitoba	36,388,003	38,858,888	40,175,901	39,763,907
Saskatchewan	27,347,080	41,692,634	47,976,575	48,777,506
Alberta	37,179,884	36,900,385	41,337,799	50,587,241
British Columbia	44,500,384	46,568,881	50,984,066	54,610,056
CANADA	652,017,449	663,161,561	702,114,883	746,526,282

Table 28 - REVENUES FROM GASOLINE TAXES, BY PROVINCES, 1938 - 1941

Province	1938	1939	1940	1941
Prince Edward Island	\$ 285,505	\$ 316,087	\$ 300,842	\$ 284,722
Nova Scotia	2,424,355	2,608,189	2,875,400	3,051,449
New Brunswick	1,807,493	1,893,169	2,104,686	2,052,234
Quebec	7,637,151	9,969,226	11,154,540	12,260,427
Ontario	18,503,789	25,105,359	26,608,271	27,641,457
Manitoba	2,529,088	2,750,638	2,805,074	2,736,158
Saskatchewan	1,822,689	2,760,196	3,348,936	3,340,357
Alberta	2,953,128	3,096,644	3,221,775	4,212,305
British Columbia	3,284,490	3,454,852	3,759,629	4,005,947
Yukon .....	...	...	...	14,300 (x)
CANADA	41,247,688	51,954,360	56,179,173	59,579,356

(x) Levied for first time in 1941.

Table 29 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1926 - 1941

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
1926	\$ 15,434,494	\$ 6,360,690	1934	\$ 21,567,830	\$ 29,054,853
1927	16,572,361	7,963,345	1935	23,090,978	31,532,645
1928	19,004,276	12,547,073	1936	25,632,843	34,532,436
1929	22,514,030	18,760,543	1937	25,993,905	38,373,947
1930	20,166,283	22,655,225	1938	28,230,196	41,247,688
1931	19,684,908	22,546,119	1939	27,961,132	51,954,360
1932	21,126,271	27,083,316	1940	29,300,720	56,179,173
1933	20,576,392	26,467,765	1941	31,559,944	59,579,356

Table 30 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, 1904 - 1941

Year	Passenger cars	Commercial vehicles	Motor cycles	TOTAL	Year	Passenger cars	Commercial vehicles	Motor cycles	TOTAL
1904	535	1923	513,075	54,564	8,346	575,985
1905	565	1924	573,204	64,003	8,056	645,263
1906	1,447	1925	641,186	74,938	7,924	724,048
1907	2,148	1926	736,729	88,019	7,520	832,268
1908	3,054	1927	830,001	102,088	7,562	939,651
1909	4,809	1928	930,619	130,827	7,897	1,069,343
1910	9,158	1929	1,022,654	155,820	8,857	1,187,331
1911	21,783	1930	1,055,514	167,548	9,427	1,232,489
1912	36,429	1931	1,023,923	167,097	9,648	1,200,668
1913	54,380	1932	945,073	159,041	9,419	1,113,533
1914	74,246	1933	917,008	156,170	10,000	1,083,178
1915	95,284	1934	952,427	166,799	10,306	1,129,532
1916	128,328	1935	989,754	175,888	10,484	1,176,126
1917	203,502	1936	1,041,529	187,770	10,825	1,240,124
1918	276,893	1937	1,103,012	205,588	11,102	1,319,702
1919	342,433	1938	1,159,604	223,176	12,073	1,394,853
1920	408,790	1939	1,190,021	236,902	12,322	1,439,245
1921	464,805	1940	1,234,637	252,813	13,379	1,500,829
1922	509,382	1941	1,277,613	276,707	14,438	1,568,758

NOTE: Livery and taxi-cabs included with passenger cars.

Buses, convertible cars, road tractors, ambulances, etc., included with commercial vehicles.

Table 31 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1938 - 1941

Province	1938	1939	1940	1941
	(Number)			
Prince Edward Island	7,992	8,040	8,070	8,013
Nova Scotia	51,214	53,008	57,873	62,805
New Brunswick	37,110	38,116	39,000	41,441
Quebec	205,463	213,148	225,152	232,149
Ontario	669,088	682,891	703,872	739,194
Manitoba	38,219	88,864	90,932	96,573
Saskatchewan	109,014	119,018	126,970	131,403
Alberta	107,191	113,702	120,514	124,244
British Columbia	119,220	122,087	128,044	132,509
Yukon	342	371	402	427
CANADA	1,394,853	1,439,245	1,500,829	1,568,758

Table 32 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1941

Provinces	Passenger cars	Motor trucks	Motor buses	Motor cycles	Other motor vehicles	TOTAL
	(number)					
Prince Edward Island ...	6,773	1,214	10	16	(x)	8,013
Nova Scotia	47,273	13,375	169	669	1,319	62,805
New Brunswick	31,945	8,166	109	361	860	41,441
Quebec	184,167	42,983	1,051	2,875	1,073	232,149
Ontario	636,624	95,408	1,268	5,894	(x)	739,194
Manitoba	75,962	19,696	111	726	78	96,573
Saskatchewan	94,896	35,484	100	742	181	131,403
Alberta	95,561	27,748	202	733	(x)	124,244
British Columbia	104,241	24,793	413	2,392	670	132,509
Yukon	171	193	(xx)	30	33	427
CANADA	1,277,613	269,060	3,433	14,438	4,214	1,568,758

(x) Included with trucks.

(xx) Included with passenger automobiles.

Table 33 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1939 - 1941

(As reported by distributors, and importers--Imperial Gallons--Calendar years)

NOTE: Figures taken from "Petroleum Fuels in Canada" issued by the Bureau of Mines, Department and Resources, Ottawa

Area	DOMESTIC AND BUILDING HEATING		INDUSTRIAL (manufac-turers') heating and for power	TRACTOR fuel oil, not lubricant	RAILWAYS, princi-pally locomotive fuel	BUNKERING, including distribu-tors' tankers	TOTAL DELIVERIES	Inventory on Decem-ber 31, at refinery, warehouses and con-sumers storage
	Number domestic custom-ers	Quantity						
1941								
N.B. and P.E.I.	5,473	4,226,581	5,344,321	72,705	277,323	4,628,526	14,549,456	1,877,805
Nova Scotia	10,037	7,913,703	7,029,494	99,987	50,852	157,799,762	172,893,798	18,323,080
Quebec	44,495	55,231,385	92,020,636	2,059,674	2,826,836	44,024,241	196,162,772	69,726,903
Ontario	24,997	45,702,919	124,538,803	9,668,845	2,916,238	10,651,484	193,478,289	89,090,031
Manitoba	778	1,413,719	3,238,524	16,908,552	1,425,105	8,850	22,994,750	2,986,161
Saskatchewan ...	1,256	2,214,477	12,478,907	17,655,191	226,596	...	32,575,171	8,771,927
Alta. and N.W.T.	156	438,870	3,602,848	10,900,374	21,803,209	83,184	36,828,485	7,572,346
B.C. and Yukon..	21,253	29,609,092	53,565,141	1,408,093	43,647,013	58,037,731	186,267,070	28,308,965
TOTAL, 1941 ..	108,445	146,750,746	301,818,674	58,773,421	73,173,172	275,233,778	855,749,791	226,657,218
TOTAL, 1940 ..	62,815	150,073,413	241,293,960	30,604,540	55,268,523	248,567,157	725,807,593	215,487,681
TOTAL, 1939 ..	58,654	136,101,107	181,239,889	34,773,691	53,795,067	204,944,464	610,854,218	203,628,275

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 is omitted.

Table 34 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1939 - 1941

(Data include all oils ranging approximately between 42° and 47° A.P.I. - Imperial gallons - Calendar years)

NOTE: Figures taken from "Petroleum Fuels in Canada" issued by the Bureau of Mines, Department of Mines and Resources, Ottawa

Province	For domestic heating, cooking and lighting purposes	For fuel in tractors	For other general usage	Less kerosene used as material -major users of	Total deliveries	Inventory December 31
<u>1941</u>						
N.B. and P.E.I.	1,780,818	...	157,919	- 3,213	1,935,524	335,009
Nova Scotia	2,983,359	...	160,450	- 13,558	3,135,251	452,067
Quebec	4,581,729	3,367	177,413	- 99,406	4,663,103	3,512,716
Ontario	5,519,978	522,445	443,629	-273,303	6,212,749	4,528,518
Manitoba	1,906,139	117,542	53,890	- 15,170	2,062,401	549,700
Saskatchewan	2,981,264	40,746	...	- 629	3,021,381	999,091
Alberta and N.W.T.	1,942,853	146,737	200,425	- 1,327	2,288,688	863,598
British Columbia and Yukon	1,188,940	200	39,327	- 4,633	1,223,834	1,455,633
TOTAL - 1941	22,890,080	831,037	1,233,053	-411,239	24,542,931	12,476,332
TOTAL - 1940	22,652,011	1,772,271	488,667	...	24,912,949	15,089,049
TOTAL - 1939	25,604,269	2,643,168	699,704	...	28,947,141	14,308,933

Table 35 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1940 and 1941

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

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

Fuel for domestic and industrial heating	1940	1941
New Brunswick and Prince Edward Island .....	...	...
Nova Scotia	541	467
Quebec	330	500
Ontario	40,269	36,704
Manitoba .....	...	...
Saskatchewan	3,107	1,402
Alberta and Northwest Territories	134	77
British Columbia and Yukon	11	...
TOTAL	44,392	39,150

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) - 1941

Fourteen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1941. Ten of these plants were located in Ontario, 3 in Quebec and 1 in British Columbia.

They employed a fixed and working capital of \$565,471 and gave work to a monthly average of 89 people who were paid \$140,464 as salaries or wages. Purchases of processing materials and containers cost \$723,923 and the selling value of products totalled \$1,245,623. Included in the year's output were lubricating oils at \$976,182, lubricating greases at \$185,523 and soaps or soap powders at \$52,629.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 38,008,499 gallons in 1941 against 30,006,720 gallons in 1940. Corresponding figures for lubricating greases totalled 16,668,438 pounds in 1941 and 10,521,173 pounds in 1940. By taking account of changes in producers' stocks and adding the imports to the Canadian production, the consumption of lubricating oils in Canada during 1941 amounted to 52,981,705 gallons.

Table 36 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1922 - 1941

Year	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1922	6	800,629	57	101,398	4,172	283,311	539,742
1923	6	738,843	62	116,751	6,236	381,390	709,028
1924	8	700,010	66	125,727	6,500	423,419	733,720
1925	8	1,118,649	83	153,148	14,113	446,721	959,512
1926	6	701,676	55	109,810	4,746	388,288	626,071
1927	7	693,371	54	110,000	4,614	316,391	548,971
1928	9	720,196	67	119,346	7,204	350,656	673,730
1929	10	1,373,192	95	168,839	8,699	572,757	1,024,134
1930	13	1,256,399	104	186,773	8,861	492,550	977,494
1931	12	847,725	64	104,677	7,481	264,319	570,219
1932	7	593,484	58	82,870	7,003	207,916	337,433
1933	10	628,968	77	100,715	7,000	270,791	464,544
1934	9	570,545	81	104,427	6,837	309,523	551,836
1935	13	695,409	85	106,549	7,625	453,898	774,444
1936	13	576,106	84	116,807	5,313	336,737	629,382
1937	13	520,687	90	120,260	5,127	407,908	752,060
1938	12	523,870	89	122,294	4,284	425,959	881,736
1939	11	596,256	91	153,917	5,129	543,394	1,084,279
1940	11	597,815	96	192,241	5,309	557,632	1,200,303
1941	14	565,471	89	140,464	5,005	723,923	1,245,623

Table 37 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1940 and 1941

Year	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1940							
Ontario	7	494,168	67	144,567	2,204	482,923	1,051,626
Quebec	3)	103,647	29	47,674	3,105	74,709	148,677
British Columbia	1)						
CANADA	11	597,815	96	192,241	5,309	557,632	1,200,303
1941							
Ontario	10	448,072	57	87,512	1,770	642,447	1,073,189
Quebec	3)	117,399	32	52,952	3,235	81,476	172,434
British Columbia	1)						
CANADA	14	565,471	89	140,464	5,005	723,923	1,245,623

Table 38 - CAPITAL EMPLOYED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1940 and 1941

Province	Value of lands, buildings, machinery and equipment	Inventory value of materials and finished products on hand and stocks in process	Operating capital (cash, bills receivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
1940				
Ontario	107,597	196,075	190,496	494,168
Other provinces	68,122	12,493	23,032	103,647
CANADA	175,719	208,568	213,528	597,815
1941				
Ontario	105,568	154,586	187,918	448,072
Other provinces	69,505	15,708	32,186	117,399
CANADA	175,073	170,294	220,104	565,471

Table 39 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1940 and 1941

Province	Average Number of Employees					Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
1940								
Ontario	31	10	25	1	67	111,891	32,676	144,567
Other provinces	12	5	14	...	29	34,226	13,448	47,674
CANADA	43	13	39	1	96	146,117	46,124	192,241
1941								
Ontario	30	8	17	2	57	69,494	18,018	87,512
Other provinces	13	3	16	...	32	34,740	18,212	52,952
CANADA	43	11	33	2	89	104,234	36,230	140,464

Table 40 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1940 and 1941

Month	Ontario		Other Provinces		C A N A D A	
	1940	1941	1940	1941	1940	1941
January	24	13	13	15	37	28
February	25	14	15	14	40	29
March	25	13	14	15	39	28
April	25	16	14	15	39	31
May	25	16	13	18	38	34
June	27	17	13	16	40	33
July	26	17	13	15	39	32
August	26	20	14	16	40	36
September	27	20	12	18	39	38
October	25	17	12	14	37	31
November	25	16	13	15	38	31
December	25	15	18	14	43	29
AVERAGE	26	19	14	16	40	35

Table 41 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1940 and 1941

Kind	Unit of measure	1940		1941	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Coal, anthracite	ton	32	403	22	300
Coal, bituminous - Canadian	ton	2	18	...	...
Imported	ton	145	1,201	153	1,303
Coke	ton	2	16	2	22
Gasoline (includes gasoline used in cars and trucks)	Imp.gal.	...	...	650	210
Kerosene or coal oil	Imp.gal.	...	...	100	20
Wood	cord	93	824	63	677
Manufactured gas	M cu.ft.	222	243	330	370
Electricity purchased	K. W. H.	108,310	2,604	91,433	2,103
TOTAL .....	...	...	5,309	...	5,005

Table 42 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1940 and 1941

	1940		1941	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	2	8	2	8
Total Primary (all in use)	2	8	2	8
Electric motors run by purchased power ...	26	144	25	83
TOTAL	28	152	27	91
Stationary boilers	2	18	2	18

Table 43 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1940 and 1941

Material	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Compounding stocks (oils, etc.)	Imp. gal.	1,128,087	374,281	1,938,337	509,001
Tallow and grease	lb.	279,422	22,499	266,470	22,356
All other materials .....	...	...	54,559	...	36,393
Shipping containers .....	...	...	106,293	...	156,173
TOTAL .....	...	...	557,632	...	723,923

Table 44 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1940 and 1941

Product	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Greases, lubricating	pound	1,069,891	175,177	1,105,582	185,523
Oils, lubricating	gallon	1,542,882	876,679	1,481,328	976,182
Soaps and soap powders ...	...	...	48,107	...	52,629
All other products .....	...	...	100,340	...	31,289
TOTAL .....	...	...	1,200,303	...	1,245,623

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1941

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	Type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
<u>NOVA SCOTIA -</u>					
Imperial Oil Limited	Imperoyal	34,000	S - C	Combination unit	11,600
<u>NEW BRUNSWICK -</u>					
New Brunswick Gas & Oilfields Ltd.	Weldon	250	S	...	...
<u>QUEBEC -</u>					
British American Oil Co. Ltd.	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-Frontenac Oil Co. Limited	Montreal East	20,000	S - C	2 Jenkins, 1 Kellogg and 1 own make	12,500
Shell Oil Company of Canada Ltd.	Montreal East	10,000	S - C	Dubbs Selective	7,500
<u>ONTARIO -</u>					
British American Oil Co. Limited	Toronto	6,000	S - C	Liquid and vapour phase	3,000
Canadian Oil Companies Limited	Petrolia	3,500	S - C	Dubbs	1,500
Good Rich Refining Co. Ltd.	Port Credit	4,000	S - C	Dubbs	1,300
Imperial Oil Limited	Sarnia	41,500	S - C	Tube and tank	20,000
McCull-Frontenac Oil Co. Limited	Toronto	13,000	S - C	Combination unit and Jenkins Stills	13,000
<u>MANITOBA -</u>					
Anglo-Canadian Oils Ltd.	Brandon	1,400	S - C	Dubbs	500
North Star Oil Limited	St. Boniface	2,000	S - C	Dubbs	500
Radio Oil Refineries Ltd.	East Kildonan	500	S	...	...
Trump Oil Company Limited	Morris	250	S	...	...
<u>SASKATCHEWAN -</u>					
British American Oil Co. Limited	Moose Jaw	4,000	S - C	Liquid and vapour phase	2,000
Consumers' Co-operative Refineries Ltd.	Regina	1,500	S - C	Dubbs	500
Eston Refining Co. Ltd.	Eston	300	S	...	...
H1-Way Refineries Limited	Moose Jaw	275	S	...	...
H1-Way Refineries Limited	Saskatoon	275	S	...	...

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1941
(Concluded)

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	Type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
<u>SASKATCHEWAN (Concluded) -</u>					
Home Oil and Refining Co. Ltd.	Humboldt	500	S - C	(type not stated)	200
Imperial Oil Limited	Regina	9,500	S - C	Tube and tank	4,200
Northern Petroleum Corporation, Ltd.	Kamsack	200	S	...	...
Sterling Refineries Ltd.	Yorkton	750	S - C	Liquid phase	250
<u>ALBERTA -</u>					
Abasand Oils Ltd.	Edmonton	...	...	...	...
British American Oil Co. Ltd.	Calgary	4,500	S - C	Liquid and vapour phase	2,250
Dina Oil & Refining Co. Ltd.	Dina	200	S	...	...
Gas and Oil Products, Ltd.	Hartell	3,000	S - C	Dubbs	500
Gold Standard Oils Ltd.	Wainwright	300	S	...	...
Imperial Oil Ltd.	Calgary	8,000	S - C	Combination unit	4,000
Warner Oil Refining & Dist. Co. Ltd.	Warner	250	S	...	...
<u>BRITISH COLUMBIA -</u>					
Imperial Oil Limited	Ioco	16,000	S - C	Tube and tank	3,400
Shell Oil Company of British Columbia Ltd.	Vancouver	4,000	S	...	...
Standard Oil Company of British Columbia Ltd.	Burnaby	4,500	S	...	...
<u>NORTHWEST TERRITORIES -</u>					
Northwest Company Ltd.	Norman Wells	840	S	...	...

S - Skimming
C - Cracking

DIRECTORY OF PLANTS ENGAGED IN THE COMPOUNDING OF LUBRICATING OILS AND GREASES IN CANADA, 1941

Name of Company	Location of Plant
<u>QUEBEC -</u>	
Chapman, L. L. and W. H. Economic Products Ltd. Union Products	Champlain St., Gatineau Point 6508 Durocher Ave., Outremont 1150 Conway St., Montreal
<u>ONTARIO -</u>	
Campbell Grease Company	414 Eastern Ave., Toronto
Casite Products Company	Colebrook
Hollingshead, R. M., Co. of Canada, Ltd.	Bowmanville
The Kearns Co. of Canada	226 Weston Road, Toronto
Kendall Refining Company of Canada, Ltd.	35 Fraser Ave., Toronto
Midora Products	174 Queensdale Ave. East, Toronto
Ontario Lubricating Co. Ltd.	120 Chatham St., Hamilton
Ontario Gasoline & Oil Ltd.	45 Dickens Ave., Toronto
Tide Water Oil Co. of Canada, Ltd.	201 Weston Road South, Toronto
Waddell, R.	John and Haymarket Sts., Hamilton
<u>BRITISH COLUMBIA -</u>	
Canada Grease Works Ltd.	280 East 6th Avenue, Vancouver

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