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DOMINION BUREAU OF STATISTICS

THE PETROLEUM PRODUCTS INDUSTRY

IN

CANADA

1934

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1934

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

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MANUFACTURES OF THE NON-METALLIC MINERALS
THE PETROLEUM PRODUCTS INDUSTRY, 1934.

The Canadian output of gasoline, fuel oil and other refined petroleum products was valued at \$76,242,914 at refinery prices in 1934 as compared with \$70,268,265 in 1933, \$71,697,757 in 1932, \$76,158,644 in 1931 and \$91,787,205 in 1930.

The production figure for 1934 included \$75,691,078 for the petroleum refining industry and \$551,836 for concerns engaged chiefly in the compounding of lubricating oils and greases. The principal statistics for each of these groups and for the industry as a whole are tabulated below.

Table 1 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY IN CANADA,
1930 - 1934.

Years	Number of plants	Capital employed of \$	Average number of employees	Salaries and wages \$	Cost of materials at works \$	Selling value of products at works \$
<u>Petroleum Refining -</u>						
1930	15	69,077,982	5,030	8,003,357	71,307,879	90,809,711
1931	20	67,298,556	4,058	6,110,068	50,353,423	75,588,425
1932	24	68,882,376	4,058	5,897,811	52,029,471	71,360,324
1933	37	67,566,886	4,551	6,041,230	48,916,966	69,803,721
1934	42	66,450,496	4,876	6,274,799	56,659,492	75,691,078
<u>Lubricating Oils and Greases -</u>						
1930	13	1,256,399	104	186,773	492,550	977,494
1931	12	847,725	64	104,677	264,319	570,219
1932	7	593,484	58	82,870	207,916	337,433
1933	10	626,968	77	100,715	270,791	464,544
1934	9	570,545	81	104,427	309,523	551,836
<u>TOTAL -</u>						
1930	28	70,334,381	5,134	8,190,130	71,800,429	91,787,205
1931	32	68,136,281	4,122	6,214,745	50,617,742	76,158,644
1932	31	69,475,860	4,116	5,980,681	52,237,387	71,697,757
1933	47	68,193,854	4,628	6,141,945	49,187,757	70,268,265
1934	-	-	-	-	-	-
Quebec	8	20,809,308	1,178	1,477,827	14,416,590	21,664,598
Ontario	12	23,779,424	2,089	2,684,628	20,093,269	24,211,553
Manitoba	3	464,835	46	61,136	818,278	1,142,254
Saskatchewan	10	5,306,838	387	501,292	4,581,784	5,944,278
Alberta	10	6,622,439	424	586,588	6,436,833	8,602,050
British Columbia	5	5,583,372	383	551,185	5,766,988	8,199,642
Other provinces(x)	3	4,454,825	437	514,770	4,855,273	6,473,539
CANADA	51	67,021,041	4,957	6,379,226	56,969,015	76,242,914

(x) Includes data for 1 plant in Nova Scotia, 1 in New Brunswick and 1 in North West Territories.

(a) THE PETROLEUM REFINING INDUSTRY

Forty-two petroleum refineries were in operation in Canada during 1934 as follows:- 10 in Alberta, 10 in Saskatchewan, 7 in Ontario, 5 in Quebec, 4 in British Columbia, 1 in Nova Scotia, 1 in New Brunswick and 1 in the North West Territories. The total capacity of these plants was reported at 159,400 barrels of crude oil per day. Fourteen refineries operated cracking units with a combined capacity of 74,350 barrels per day. The location, type and capacity of each of these refineries is recorded in the directory appended to this report.

Capital employed in the petroleum refining industry was reported at \$66,450,496 of which \$42,869,390 was the value placed on land, buildings and equipment. The average number of employees was 4,876 and the payments to these workers in salaries and wages amounted to \$6,274,799. Materials used in refineries cost \$56,659,492 and products were valued at \$75,691,078.

The oil refineries used, in 1934, a total of 1,109,510,343 gallons of crude oil of which 770,332,530 gallons were from United States, 297,666,050 gallons from Trinidad and South American countries and 41,461,763 gallons from Canadian wells. The crude from United States included 768,765,241 gallons in its natural state and 1,617,289 gallons not in its natural state. The Canadian oil included 34,304,479 gallons in its natural state and 7,157,284 gallons of naphtha and absorption gasoline which was run to the refinery stills. The shipments from other countries included 265,845,557 of crude in its natural state and 31,820,493 gallons of reduced crude. The total cost at the refineries of the oil used during the year was \$53,642,101. Stocks of crude held at the refineries at the end of 1934 were reported at 103,939,321 gallons of crude in its natural state and 8,120,356 gallons not in its natural state, a total of 112,059,677 gallons.

Gasoline production in 1934 amounted to 461,753,363 of which 166,773,271 gallons were made by cracking and 294,980,092 gallons by straight run. In addition the refineries used 51,568,707 gallons of imported casinghead gasoline which were not included in the production figure; this imported gasoline was used for blending with the refinery product. Refinery stocks at the end of 1934 totalled 70,144,704 gallons including 2,919,450 gallons of imported casinghead. The value of the gasoline produced in 1934 was \$42,457,623.

Imports of gasoline during 1934 amounted to 61,581,870 gallons which with the production of 461,753,363 gallons and the decline in refinery stocks of 6,050,080 gallons made a total supply of 529,385,313 gallons. But exports totalled 4,762,672 gallons leaving 524,622,641 gallons as the apparent consumption in Canada during the year. Actual sales as reported to the provincial governments under the Gasoline Tax Acts amounted to 534,782,018 gallons in 1934 but this latter figure probably includes some Turner Valley naphtha and engine distillates which were used for auto or tractor fuel. Oil wells in Alberta sold about 7,350,000 gallons of naphtha and absorption gasoline directly to consumers for use in tractors, etc., during 1934; this quantity is included under the tax returns but has not been taken into consideration in the above computation of the apparent consumption.

Fuel oil production in 1934 totalled 353,989,989 gallons of which 53,918,147 gallons were used for fuel by the reporting refineries. Imports amounted to 56,441,445 gallons and exports were reported at only 5,438 gallons. Refinery stocks at the end of the year (excluding quantities held for pressure cracking operations) totalled 51,657,784 gallons.

Output of gas oils was reported at 102,005,336 gallons in 1934, imports at 181,278 gallons and refinery stocks at 18,296,163 gallons. Kerosene production was shown at 37,741,993 gallons, imports at 1,985,739 gallons, exports at 782,350 gallons and refinery stocks at 8,436,554 gallons.

Production of lubricating oils from refineries amounted to 18,976,442 gallons and a further 496,006 gallons were made in blending plants, making a total output of 19,472,448 gallons. Imports totalled 10,521,324 gallons. Refinery stocks were shown at 5,200,563 at the end of the year.

Table 2 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1931 + 1934.

Provinces	1 9 3 1		1 9 3 2		1 9 3 3		1 9 3 4	
	Num- ber	Capacity in barrels of crude per day	Num- ber	Capacity in barrels of crude per day	Num- ber	Capacity in barrels of crude per day	Num- ber	Capacity in barrels of crude per day
Nova Scotia	1	12,000	1	12,000	1	12,000	1	11,000
New Brunswick	1	100	1	100	1	100	1	100
Quebec	3	43,000	4	45,000	5	52,000	5	61,500
Ontario	4	36,500	4	36,400	7	38,675	7	39,850
Manitoba	2	1,500	3	1,900	2	1,900	3	2,100
Saskatchewan	1	7,000	3	7,900	8	9,400	10	12,850
Alberta	6	17,250	6	16,550	9	16,120	10	14,150
British Columbia	2	16,000	2	16,000	3	19,500	4	17,700
North West Territories.	.	...	.	....	1	80	1	150
CANADA	20	133,350	24	135,850	37	149,775	42	159,400

Table 3 - CAPITAL EMPLOYED IN THE PETROLEUM REFINING INDUSTRY, 1933 and 1934.

Provinces	Present value of lands, buildings, machinery and equipment	Inventory value of materials on hand and stocks in process	Inventory value of finished products on hand	Operating capital (cash, bills receiv- able, etc.)	TOTAL
	\$	\$	\$	\$	\$
1 9 3 3					
Quebec	15,473,564	2,848,774	2,939,045	23,801	21,285,184
Ontario	15,279,567	3,258,680	3,326,233	1,083,332	22,947,812
Saskatchewan ..	2,968,388	705,653	1,459,877	66,330	5,200,248
Alberta	3,363,031	1,076,282	1,233,397	303,647	5,976,357
British Columbia	3,729,037	632,478	972,804	190,932	5,525,251
Other provinces	4,085,411	1,506,660	919,337	120,626	6,632,034
CANADA	44,898,998	10,028,527	10,850,693	1,788,668	67,566,886
1 9 3 4					
Quebec	14,589,795	2,158,499	3,928,109	42,023	20,718,426
Ontario	15,926,929	3,444,014	3,405,280	803,258	23,579,481
Manitoba	277,874	51,119	91,051	44,791	464,835
Saskatchewan ..	3,061,623	411,653	1,636,684	196,373	5,306,838
Alberta	3,100,745	1,259,285	1,947,838	264,521	6,622,439
British Columbia	3,220,952	562,499	1,204,301	315,900	5,303,652
Other provinces	2,641,472	983,045	754,969	75,339	4,454,825
CANADA	42,869,390	8,870,114	12,968,232	1,742,710	66,450,436

Table 4 - EMPLOYEES, SALARIES AND WAGES, 1933 and 1934.

Provinces	Average number of employees					Salaries and Wages		
	On salaries		On wages		TOTAL	Salaries \$	Wages \$	TOTAL \$
	Male	Female	Male	Female				
1 9 3 3								
Quebec	106	9	952	2	1,069	224,769	1,167,409	1,392,178
Ontario	237	36	1,746	6	2,025	579,695	2,173,023	2,752,718
Saskatchewan	58	7	251	1	317	110,678	300,743	411,421
Alberta	59	8	266	3	336	122,943	238,891	411,834
British Columbia.	50	4	317	1	372	113,322	411,245	524,567
Other provinces .	51	9	371	1	432	122,533	425,979	548,512
CANADA	561	73	3,903	14	4,551	1,273,940	4,767,290	6,041,230
1 9 3 4								
Quebec	123	11	1,024	1	1,159	239,410	1,212,488	1,451,898
Ontario	256	44	1,747	7	2,054	612,545	2,024,563	2,637,113
Manitoba	12	3	31	-	46	25,687	35,449	61,136
Saskatchewan	65	7	315	-	387	125,096	376,196	501,292
Alberta	65	7	352	-	424	149,605	436,983	586,588
British Columbia.	54	6	308	1	369	119,510	402,492	522,002
Other provinces .	43	8	385	1	437	98,537	416,233	514,770
CANADA	618	86	4,162	10	4,876	1,370,390	4,904,409	6,274,799

Table 5 - NUMBER OF WAGE-EARNERS, BY MONTHS, 1934.

Months	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces	CANADA
January ..	997	1,704	34	248	240	302	386	3,911
February .	991	1,638	31	247	280	300	382	3,869
March	966	1,623	23	276	274	298	381	3,841
April	986	1,706	26	287	325	311	421	4,062
May	990	1,825	29	293	376	314	395	4,222
June	1,013	1,800	32	301	367	320	400	4,233
July	1,017	1,803	34	289	405	313	379	4,240
August ...	997	1,815	34	311	420	313	384	4,274
September.	1,061	1,815	33	467	416	314	371	4,477
October ..	1,097	1,787	32	383	397	310	372	4,383
November .	1,092	1,783	31	358	370	309	356	4,299
December .	1,077	1,753	31	318	345	310	397	4,231
AVERAGE.	1,025	1,754	31	315	352	309	386	4,172

Table 6 - FUEL(x) AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ...	short ton	1,040	4,424	161	800
Imported ...	short ton	23,366	105,770	34,564	160,686
Coke, including petroleum coke	short ton	27,349	146,661	24,179	105,534
Gasoline	Imp. gal.	...	...	5,005	503
Kerosene or coal oil	Imp. gal.	...	...	2,932	341
Fuel oil	Imp. gal.	57,381,601	1,694,544	55,246,440	1,495,058
Wood	cords	...	...	4	25
Gas - Manufactured, including still gas	M cu.ft.	3,511,405	632,436	3,772,745	777,352
Natural	M cu.ft.	689,885	64,298	925,173	83,039
Other fuel	xxx	...	113,971	...	110,533
Electricity purchased	K.W.H.	47,907,292	563,615	44,843,350	334,826
TOTAL	xxx	...	3,130,719	...	3,117,697
Electricity generated for own use	K.W.H.	3,511,235	...	3,664,595	...

(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 7 - POWER EQUIPMENT, 1933 and 1934.

Kinds	1 9 3 3		1 9 3 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	413	14,591	429	15,253
Diesel engines	8	1,585	7	1,385
Gasoline, gas and oil engines (other than diesel)	1	3	5	41
Total Primary	422	16,179	441	16,679
Electric motors run by purchased power	885	18,918	1,023	20,011
TOTAL	1,307	35,097	1,464	36,690
Electric motors run by power generated with above primary units	74	1,977	76	1,992
Total Electric Motors	959	20,895	1,099	22,003
Boilers	128	29,118	136	29,629

Table 8 - MATERIALS USED IN PETROLEUM REFINERIES, 1933 and 1934.

Materials	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Crude oil, in its natural state, from Canadian wells	Imp.gal.)			34,304,479	2,598,824
Naphtha, absorption gasoline, etc., from Canadian wells	Imp.gal.)	32,404,139 ✓	2,774,379	7,157,284	640,074
Crude oil in its natural state -					
(a) From United States	Imp.gal.	688,869,955 ✓	30,835,697	768,765,241	38,165,168
(b) From other countries	Imp.gal.	322,936,756 ✓	11,729,822	265,845,557	10,140,741
Crude oil, not in its natural state -					
(a) From United States	Imp.gal.)	Included		1,617,289	171,205
(b) From other countries	Imp.gal.)	with natural crude		31,820,493	1,926,089
Sulphuric acid (66° Be)	lb.	24,057,138	239,016	24,696,413	250,501
Sulphur	lb.	67,730	2,464	117,279	4,095
Caustic soda	lb.	3,291,438	104,992	3,324,629	111,870
Soda ash	lb.	284,761	6,483	289,418	6,636
Litharge	lb.	364,934	23,536	356,648	26,898
Fullers' earth and clay	lb.	22,811,655	314,515	18,588,514	239,357
Compounding materials	xxx	...	372,020	...	338,247
Tetraethyl fluid	xxx	...	1,451,453	...	1,249,314
Other materials	xxx	...	113,419	...	264,055
Shipping containers	xxx	...	949,170	...	526,418
TOTAL	xxx	...	48,916,966	...	56,659,492

Table 9 - MATERIALS USED, BY AREAS, 1934.

Materials	Unit of measure	MARITIMES AND QUEBEC		O N T A R I O		WESTERN PROVINCES	
		Quantity	Cost at works \$	Quantity	Cost at works \$	Quantity	Cost at works \$
Crude oil, not in its natural state, from Canadian wells	Imp. gal.	387,261	22,128	4,289,702	274,888	29,627,516	2,301,808
Naphtha, absorption gasoline, etc., from Canadian wells	Imp. gal.	...	...	...	...	7,157,284	640,074
Crude oil, in its' natural state -							
(a) From United States.	Imp. gal.	187,527,489	8,349,010	308,414,670	16,107,238	272,823,082	13,708,920
(b) From other countries	Imp. gal.	260,564,171	9,897,853	2,029,965	104,514	3,251,421	138,374
Crude, not in its natural state -							
(a) From United States.	Imp. gal.	...	...	1,573,289	164,165	44,000	7,040
(b) From other countries	Imp. gal.	5,637,657	314,133	23,571,359	1,458,277	2,611,477	153,679
Sulphuric acid (66° Be).	lb.	340,722	3,113	15,503,921	154,530	8,851,770	92,858
Sulphur	lb.	17,936	520	24,810	557	74,533	3,018
Caustic soda	lb.	1,410,303	39,510	852,868	29,420	1,061,458	42,940
Soda ash	lb.	14,044	267	70,200	1,172	205,174	5,197
Litharge	lb.	19,006	1,090	76,889	4,628	260,753	21,180
Fullers' earth and clay.	lb.	4,685,600	67,770	12,673,549	157,010	1,229,365	14,577
Compounding materials ..	xx	...	...	...	321,111	...	17,136
Tetraethyl fluid	xx	...	415,077	...	599,710	...	234,527
Other materials	xx	...	37,094	...	144,037	...	82,924
Shipping containers	xx	...	39,050	...	435,676	...	51,692
TOTAL	xxx	...	19,186,615	...	19,956,933	...	17,515,944

Table 10 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1933 and 1934.

Products	Unit of measure	1933		1934	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
<u>Made for sale -</u>					
Gasoline (a) straight run(x) ...	Imp.gal.	267,010,338	25,933,516	294,665,314	28,478,159
(b) by cracking process ..	Imp.gal.	155,843,903	13,911,439	166,773,271	13,956,313
Fuel oil	Imp.gal.	282,580,908	9,617,675	300,071,842	10,580,733
Gas oil	Imp.gal.	91,390,183	4,712,675	101,549,871	5,412,798
V.M. & P. or solvent naphtha and engine distillate .	Imp.gal.	33,947,241	2,987,440	36,223,392	3,183,330
Kerosene	Imp.gal.	48,951,129	4,455,425	37,675,985	3,635,618
Lubricating oil	Imp.gal.	17,194,703	2,983,331	18,928,038	3,896,754
Grease	lb.	8,339,991	357,205	9,960,640	563,514
Asphalt	Imp.gal.	21,627,760	1,698,023	25,584,495	2,303,717
Petroleum coke	ton	54,646	322,379	52,467	200,512
Wax and candles	lb.	8,997,682	355,308	10,655,682	476,899
Other products	xx	...	4,350	...	171,114
Total for Sale	xx	...	67,338,766	...	72,839,461
<u>Made for own use -</u>					
Gasoline - straight run.	Imp.gal.	82,552	7,683	314,778	23,151
Fuel oil (except for cracking)	Imp.gal.	55,884,197	1,611,981	53,918,147	1,936,395
Gas oil	Imp.gal.	458,804	25,981	455,465	23,484
V.M. & P. or solvent naphtha and engine distillate .	Imp.gal.	71,914	5,611	70,255	4,245
Kerosene	Imp.gal.	77,200	6,188	66,008	5,365
Lubricating oil	Imp.gal.	54,957	8,731	48,404	12,589
Tar	Imp.gal.	...	...	1,306,410	49,927
Petroleum coke	ton	20,079	115,400	9,293	57,961
Still gas	M cu.ft.	3,505,405	631,116	3,772,746	777,351
Other products	xx	...	52,264	...	61,149
Total for Own Use	xx	...	2,464,955	...	2,851,617
GRAND TOTAL	xx	...	69,803,721	...	75,691,078
<u>Fuel and gas oil made for use in cracking process.</u>					
	Imp.gal.	364,389,832	...	309,595,786	...

(x) Includes 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.

/ Not including 5,473,582 gallons of heavy naphtha and 1,389,045 gallons of crude.

Table 11 - PRODUCTS MADE, BY AREAS, 1934.

Products	Unit of measure	MARITIMES AND QUEBEC		O N T A R I O		WESTERN PROVINCES	
		Quantity	Selling value \$	Quantity	Selling value \$	Quantity	Selling value \$
Made for Sale -							
Gasoline (a)straight run	Imp.gal.	116,294,604	9,715,121	81,047,355	6,213,676	97,323,355	12,549,362
(b)by cracking							
process ...	Imp.gal.	83,236,898	7,781,909	71,949,582	4,754,529	11,586,791	1,419,875
Fuel oil	Imp.gal.	132,885,376	4,345,982	39,673,657	2,008,660	127,512,809	4,206,091
Gas oil	Imp.gal.	39,229,116	2,006,062	50,282,306	2,785,536	12,038,449	621,200
V.M. & P. or solvent naphtha and engine distillate .	Imp.gal.	5,138,931	351,158	6,650,348	343,162	24,434,113	2,489,010
Kerosene	Imp.gal.	12,040,133	1,028,173	14,152,145	1,105,381	11,483,707	1,502,064
Lubricating oil	Imp.gal.	794,796	127,486	17,593,417	3,683,025	539,825	86,243
Grease	lb.	...	...	8,564,769	508,827	1,395,871	54,687
Asphalt	Imp.gal.	14,944,076	1,351,320	7,946,461	712,440	2,693,958	239,957
Petroleum coke	ton	1,738	13,523	45,733	156,705	4,996	30,284
Wax and candles	lb.	...	...	10,655,682	476,899	...	...
Other products	xxx	...	...	...	...	...	171,114
Total for Sale	xxx	...	26,720,734	...	22,748,840	...	23,369,887
Made for Own Use -							
Gasoline	Imp.gal.	33,469	3,069	260,401	17,375	20,908	2,707
Fuel oil (except for cracking)	Imp.gal.	25,229,779	817,617	19,244,908	708,297	9,443,460	310,481
Gas oil	Imp.gal.	273,880	13,661	178,800	9,681	2,785	142
V.M. & P. or solvent naphtha and engine distillate .	Imp.gal.	243	20	68,223	4,041	1,789	184
Kerosene	Imp.gal.	1,481	130	56,091	4,123	8,436	1,112
Lubricating oil	Imp.gal.	225	36	45,074	12,058	3,105	495
Petroleum coke	ton	915	7,746	3,273	17,517	5,100	32,698
Still gas	M cu.ft.	1,867,309	426,494	1,498,379	281,524	407,058	69,333
Other products	xxx	...	464	...	107,399	...	3,213
Total for Own Use	xxx	...	1,269,237	...	1,162,015	...	420,365
GRAND TOTAL	xxx	...	27,989,971	...	23,910,855	...	23,790,252
Fuel and gas oil made for use in cracking process	Imp.gal.	118,193,114	...	143,316,511	...	48,086,161	...

Table 12 -- PRODUCTS MADE, SHOWING PRODUCTION FROM REDUCED CRUDE SEPARATELY FROM NATURAL CRUDE, 1934.

Products	Unit of measure	Made from crude oil in its natural state		Made from crude oil not in its natural state	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
<u>Petroleum refining -</u>					
<u>Made for sale -</u>					
Gasoline (a) straight run	Imp. gal.	288,369,583	27,830,997	6,295,731	647,162
(b) by cracking process	Imp. gal.	166,251,456	13,909,643	521,815	46,670
Fuel oil	Imp. gal.	296,812,648	10,396,479	3,259,194	164,254
Gas oil	Imp. gal.	100,074,954	5,337,072	1,474,917	75,726
V.M. & P. or solvent naphtha and engine distillate	Imp. gal.	37,486,222	3,311,762	62,390	5,406
Kerosene	Imp. gal.	34,537,070	3,295,183	3,138,915	340,435
Lubricating oils	Imp. gal.	11,683,913	2,132,283	7,244,125	1,764,471
Grease	lb.	9,960,640	563,514	...	...
Asphalt	Imp. gal.	25,584,495	2,303,717	...	...
Petroleum coke	ton	52,467	200,512	...	...
Wax and candles	lb.	10,656,182	476,899	...	...
Other products	xxx	...	27,276	...	...
Total for Sale	xxx	...	69,795,337	...	3,044,124
<u>Made for own use -</u>					
Gasoline, straight run	Imp. gal.	314,778	23,151	...	...
Fuel and gas oil (except for cracking)	Imp. gal.	53,714,892	1,827,031	203,255	9,364
Gas oil	Imp. gal.	455,465	23,484	...	...
V.M. & P. or solvent naphtha	Imp. gal.	70,255	4,245	...	...
Kerosene	Imp. gal.	61,626	4,776	4,382	589
Lubricating oil	Imp. gal.	29,114	4,609	19,290	7,980
Tar	Imp. gal.	1,306,410	49,927	...	...
Petroleum coke	ton	9,293	57,961	...	...
Still gas	M cu.ft.	3,768,886	776,008	3,860	1,343
Other products	xxx	...	61,149	...	...
Total for Own Use	xxx	...	2,832,341	...	19,276
TOTAL PETROLEUM REFINING	xxx	...	72,627,678	...	3,063,400

Table 13 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1934.

Crude petroleum (a) In its natural state	103,939,321 Imp. gal.	) 112,059,677
(b) Not in its natural state	8,120,356 Imp. gal.	
Gasoline (excluding casinghead for blending)	67,225,254 Imp. gal.	
Fuel oil (a) Not intended for further manufacture	51,657,784 Imp. gal.	
(b) For pressure cracking operations	22,314,422 Imp. gal.	
Gas oil	18,296,163 Imp. gal.	
Kerosene	8,436,554 Imp. gal.	
Lubricating oil	5,200,563 Imp. gal.	
Petroleum coke	3,695 tons	

Table 14 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1934.

Imported casinghead gasoline received at the refineries during the year	Quantity	49,225,326 Imp. gal.
	Cost at works	\$ 3,751,960
Imported casinghead gasoline used for blending during the year		51,568,707 Imp. gal.
Total refinery stocks of casinghead gasoline at end of year		2,919,450 Imp. gal.

(b) LUBRICATING OILS AND GREASES

In 1934 reports were received from 9 factories which were engaged chiefly in the compounding of lubricating oils and greases; 5 of these works were in Ontario, 3 in Quebec and 1 in British Columbia.

Capital employed in 1934 was given at \$570,545; the average number of employees was 81; payments for salaries and wages totalled \$104,427; materials for compounding and containers for the finished products cost \$309,523 and the value of products made was \$551,356, including \$397,751 for lubricating oil, \$104,042 for lubricating grease and \$50,043 for miscellaneous products.

Including the production from refineries the total Canadian output of lubricating oil was 19,944,973 gallons valued at \$4,307,094 in 1934 compared with 17,826,220 gallons at \$3,305,329 in 1933. The total production of lubricating grease was 10,793,999 pounds at \$668,000 in 1934 and 9,236,746 pounds at \$469,861 in 1933.

Table 15 - CAPITAL EMPLOYED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1933 and 1934.

Provinces	Value of lands, buildings, machinery and equipment	Inventory value of materials on hand and in process	Inventory value of finished products on hand	Operating capital (cash, bills receivable, etc.)	TOTAL
	\$	\$	\$	\$	
<u>1933</u>					
Ontario	70,402	27,591	54,077	81,209	233,279
Other provinces(x)	282,483	46,509	48,271	16,426	393,689
CANADA	352,885	74,100	102,348	97,635	626,968
<u>1934</u>					
Ontario	53,920	12,355	47,353	35,315	199,343
Other provinces(x)	257,204	65,707	30,111	17,580	370,602
CANADA	311,124	78,062	77,964	103,395	570,545

(x) Includes 3 in Quebec and 1 in British Columbia in 1933 and 1934.

Table 16 - EMPLOYEES, SALARIES AND WAGES, 1933 and 1934.

Provinces	Average number of employees					Salaries and Wages		
	On salaries		On wages		TOTAL	Salaries	Wages	TOTAL
	Male	Female	Male	Female				
						\$	\$	\$
<u>1933</u>								
Ontario	20	6	16	...	42	30,823	17,023	47,251
Other provinces .	9	2	24	...	35	21,622	31,342	53,464
CANADA	29	8	40	...	77	51,845	48,370	100,715
<u>1934</u>								
Ontario	26	6	11	...	43	40,904	8,411	49,315
Other provinces .	13	2	23	...	38	29,689	25,423	55,112
CANADA	39	8	34	...	81	70,593	33,834	104,427

Table 17 - NUMBER OF WAGE-EARNERS, BY MONTHS, 1934.

Months	Ontario	Other Provinces	CANADA
January	7	21	28
February	9	21	30
March	10	21	31
April	9	22	31
May	13	23	36
June	12	22	34
July	12	23	35
August	11	23	34
September	13	23	36
October	11	26	37
November	12	25	37
December	12	22	34
AVERAGE	11	23	34

Table 18 - FUEL AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1933		1934	
		Quantity	Cost at works	Quantity	Cost at works
Coal, anthracite	short ton	26	\$ 384	27	\$ 395
Coal, bituminous - Canadian	short ton	100	625	144	755
Foreign	short ton	150	932	174	1,178
Fuel oil	Imp. gal.	105,420	2,778	94,220	2,477
Wood	cord	28	291	33	304
Gas, manufactured	M cu.ft.	100	80	100	87
Electricity purchased	K.W.H.	68,684	1,910	61,433	1,641
TOTAL	xxx	...	7,000	...	6,337

Table 19 - POWER EQUIPMENT, 1933 and 1934.

	1933		1934	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	3	58	3	58
Total Primary	3	58	3	58
Electric motors run by purchased power	12	38	7	26
TOTAL	15	96	10	84
Boilers	7	363	6	303

Table 20 - MATERIALS USED, 1933 and 1934.

Materials	Unit of measure	1933		1934	
		Quantity	Cost at works	Quantity	Cost at works
Compounding stocks (mineral oils, animal oils, etc.)	Imp. gal.	648,973	\$ 205,839	855,698	\$ 247,901
Tallow and grease	lb.	229,836	16,481	344,526	23,772
All other materials	xxx	...	16,572	...	16,318
Shipping containers	xxx	...	31,399	...	21,532
TOTAL	xxx	...	270,791	...	309,523

Table 21 - PRODUCTS MADE, 1933 and 1934.

Products	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Selling value at plant	Quantity	Selling value at plant
Greases, lubricating	lb.	396,755	112,656	832,201	104,042
Oils, lubricating	gal.	576,560	311,767	543,258	397,751
Soaps and soap powders ...	lb.	310,996	30,336	475,591	39,476
All other products	xx	...	9,735	...	10,567
TOTAL	xx	...	464,544	...	551,836

Table 22 - IMPORTS INTO CANADA AND EXPORTS OF PETROLEUM, ASPHALT AND THEIR PRODUCTS, 1934.

	Quantity	Value	
\$			
<u>IMPORTS -</u>			
<u>Asphalt and Its Products</u>			
Asphaltum or asphalt, solid	cwt.	100,305	114,951
Asphalt, not solid	gal.	98,657	11,030
Asphaltum oil for paving purposes only	gal.	14,619	1,832
<u>Crude Petroleum, Fuel and Gas Oils</u>			
Crude petroleum in its natural state, 0.7900 specific gravity or heavier at 60 degrees temperature, when imported by oil refiners to be refined in their own factories ..	gal.	1,072,327,425	31,907,176
Crude petroleum, gas oils other than naphtha, benzine and gasoline lighter than 0.8235 but not less than 0.775 specific gravity at 60 degrees temperature	gal.	181,278	9,740
Petroleum (not including crude petroleum imported to be refined or illuminating or lubricating oils 0.8235 specific gravity or heavier at 60 degrees temperature (fuel oil)	gal.	32,959,499	1,149,341
Oils imported by miners or mining companies or concerns, for use in the concentration of ores of metals in their own concentrating establishments	gal.	77,126	85,364
Petroleum, crude, not in its natural state, 0.7250 specific gravity or heavier at 60 degrees temperature when imported by oil refiners to be refined in their own factories	gal.	1,782,276	98,920
Fuel oil, ex-warehoused for ships' stores	gal.	23,481,946	589,843
<u>Kerosene and Illuminating Oils</u>			
Coal oil and kerosene, lighter than .8235 specific gravity at 60 degrees temperature, n.o.p.	gal.	1,985,739	142,025
Illuminating oils, composed wholly or in part of the products of petroleum, coal, shale or lignite, costing more than 30 cents per gallon.....	gal.	1,062	345
Engine distillate lighter than .8235 specific gravity at 60 degrees temperature	gal.	132,795	12,946
<u>Lubricating and Other Oils</u>			
Lubricating oils, composed wholly or in part of petroleum and costing less than 25 cents per gallon	gal.	6,872,364	1,047,882
Lubricating oils, n.o.p.	gal..	3,648,960	1,345,094

Table 22 - IMPORTS INTO CANADA AND EXPORTS OF PETROLEUM, ASPHALT AND THEIR PRODUCTS
1934. (concluded)

	Quantity	Value
		\$
<u>IMPORTS - concluded</u>		
<u>Gasoline and Other Oils</u>		
Gasoline, lighter than .8235 specific gravity at 60 degrees temperature	gal. 13,205,856	1,248,497
Gasoline, natural casinghead, compression or absorption, lighter than .6690 specific gravity at 60 degrees temperature, when imported by distillers of petroleum for blending with other gasolines distilled in Canada	gal. 48,376,014	2,593,460
All other oils, n.o.p.	gal. 580,667	117,509
<u>Other Products of Petroleum</u>		
Grease, axle	lb. 3,374,842	169,183
Paraffin wax	lb. 6,063,526	268,741
Paraffin wax candles	lb. 146,075	28,647
Vaseline, and all similar preparations of petroleum for toilet, medicinal and other purposes	xx ...	241,063
Naphtha and products of petroleum, n.o.p., lighter than .8235 specific gravity at 60 degrees temperature	gal. 1,868,361	142,927
TOTAL IMPORTS	xx ...	41,326,516
<u>EXPORTS -</u>		
Oil, petroleum (fuel oil)	gal. 5,438	497
Oil, coal and kerosene, refined	gal. 782,350	78,618
Oil, gasoline and naphtha	gal. 4,757,175	528,197
Oil, mineral, n.o.p.	gal. 12,994,817	585,785
Wax, mineral	cwt. 2,633	10,219
TOTAL EXPORTS	xx ...	1,203,316
<u>RE-EXPORTS -</u>		
Kerosene	gal. 25	24
Gasoline	gal. 5,497	2,268
Mineral oil, n.o.p.	gal. 812	1,540
TOTAL RE-EXPORTS	xx ...	3,832

Table 23 - IMPORTS INTO CANADA OF CRUDE PETROLEUM, FUEL OIL AND GASOLINE, BY COUNTRIES OF ORIGIN, 1933 and 1934.

	1933		1934	
	Imp. gal.	\$	Imp. gal.	\$
(a) Crude oil				
Crude petroleum in its natural state, .7900 specific gravity or heavier, at 60° temperature, when imported by oil refineries to be refined in their own factories -				
From - United States	689,257,020	14,317,828	736,002,139	24,066,785
Trinidad and Tobago	1,376,727	23,887	4,745,357	137,184
Columbia	90,490,908	2,488,455	150,036,019	4,248,696
Dutch West Indies	25,729,746	325,557	...	...
Peru	92,285,102	2,534,157	88,081,411	2,861,038
Venezuela	55,252,863	400,896	33,462,499	593,493
TOTAL	954,392,366	20,290,580	1,072,327,425	31,907,176
Crude petroleum not in its natural state, .7250 specific gravity or heavier at 60° temperature when imported by oil refiners to be refined in their own factories -				
From - United States	409,688	28,272	1,782,276	98,920
Trinidad and Tobago	19,262,310	751,546	...	...
Peru .....	...	...	...	...
Russia (U.S.S.R.)	5,964,913	252,153	...	...
TOTAL	25,636,911	1,031,971	1,782,276	98,920
(b) Fuel Oil				
Petroleum (not including crude petroleum imported to be refined, or illuminating or lubricating oil) 0.8235 specific gravity or heavier at 60° temperature (fuel oil)				
From - United States	20,796,474	684,215	26,160,783	925,159
Dutch West Indies	11,259,520	436,000	...	...
Peru	10,253,842	304,128	6,796,867	224,108
Other countries	961,489	21,124	1,849	74
TOTAL	43,271,325	1,445,467	32,959,499	1,149,341
Fuel oil, ex-warehoused for ships' stores -				
From - United States	23,868,818	871,433	23,293,296	586,202
Mexico	1,339,534	24,952	188,650	3,641
Dutch West Indies	1,690,844	27,478	...	...
TOTAL	26,896,996	723,863	23,481,946	589,843
(c) Gasoline				
Gasoline lighter than 0.8235 specific gravity at 60° temperature -				
From - United State	14,790,600	1,337,817	13,188,116	1,244,596
Dutch West Indies	2,310,370	103,003	...	...
Other countries	21,396	5,946	17,740	3,901
TOTAL	17,122,366	1,446,766	13,205,856	1,248,497

Table 23 - IMPORTS INTO CANADA OF CRUDE PETROLEUM, FUEL OIL AND GASOLINE, BY COUNTRIES OF ORIGIN, 1934 (concluded).

	1 9 3 3		1 9 3 4	
	Imp. gal.	\$	Imp. gal.	\$
(c) Gasoline (concluded)				
Gasoline, natural casinghead, compression or absorption gasoline, lighter than .6690 specific gravity at 60° temperature when imported by distillers of petroleum for blending with other gasolines distilled in Canada -				
From - United States	39,688,271	2,545,302	38,099,178	2,084,240
Peru .....	...	...	10,276,836	509,220
TOTAL	39,688,271	2,545,302	48,376,014	2,593,460

Table 24 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES IN CANADA, 1918-1934.

Years	Crude oil used Imp. gal.	Years	Crude oil used Imp. gal.
1918	261,742,274	1926	585,466,329
1919	301,006,553	1927	716,369,890
1920	295,576,527	1928	849,933,770
1921	373,469,418	1929	1,072,828,496
1922	394,139,055	1930	1,064,434,974
1923	408,810,739	1931	1,074,788,038
1924	467,144,654	1932	930,114,055
1925	445,115,694	1933	1,044,210,850
		1934	1,109,510,343

Table 25 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED SEPARATELY, 1926-1934.

Years	(a) Canadian Imp.gal.	(b) Imported Imp.gal.	TOTAL Imp. gal.
1926	12,203,286	573,263,043	585,466,329
1927	15,632,271	700,737,619	716,369,890
1928	20,324,814	829,608,956	849,933,770
1929	37,338,402	1,035,490,094	1,072,828,496
1930	51,522,864	1,012,912,110	1,064,434,974
1931	49,668,529	1,025,119,509	1,074,788,038
1932	37,340,321	892,773,734	930,114,055
1933	32,404,139	1,011,806,711	1,044,210,850
1934	41,461,763	1,068,048,580	1,109,510,343

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

(b) Includes reduced crude.

Table 26 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1933 and 1934.

Areas	1 9 3 3		1 9 3 4	
	Barrels	Value \$	Barrels	Value \$
NEW BRUNSWICK	8,835	18,111	11,545	23,300
ONTARIO -				
Petrolia and Enniskillen	57,298	106,527	55,924	117,413
Oil Springs	31,343	61,396	29,863	65,684
Moore Township	2,192	4,075	2,963	6,221
Sarnia Township	2,181	4,054	3,244	6,811
Plympton Township	211	392	202	424
Bothwell Township	22,935	42,633	32,133	67,463
West Dover	763	1,334	558	1,171
Onondaga	946	1,798	601	1,311
Mosa Township	8,168	15,183	9,031	18,961
Brooke .....	...	...	1,536	3,225
Dunwich	346	643	283	594
Raleigh	239	444	264	554
Thamesville	847	1,574	614	1,289
Dawn and Euphemia	8,589	13,433	4,169	8,753
Total for Ontario	136,058	253,486	141,385	299,874
ALBERTA -				
Turner Valley	968,055	2,816,061	1,227,486	3,181,503
Red Coulee	23,305	23,747	20,325	20,784
Wainwright	4,472	4,349	12,189	10,833
Total for Alberta	995,832	2,844,157	1,260,000	3,213,120
NORTH WEST TERRITORY	4,068	23,037	4,438	22,188
CANADA	1,145,333	3,138,791	1,417,368	3,558,482

NOTE - 1 barrel - 35 imperial gallons

Table 27 - PRODUCTION OF GASOLINE IN CANADA, 1926 - 1934.

Years	Straight run		By cracking		TOTAL Imp. gal.	Per cent of total made by cracking
	Imp. gal.	Imp. gal.	Imp. gal.	Imp. gal.		
1926	152,307,473	69,839,231	222,146,704	31		
1927	184,818,378	73,731,346	258,549,724	29		
1928	226,954,319	117,175,342	344,129,861	34		
1929	303,973,918	132,646,696	436,620,614	30		
1930	276,284,656	169,314,761	445,599,417	38		
1931	278,215,832	191,632,502	469,925,375	41		
1932	207,823,273	192,113,405	399,936,678	48		
1933	267,086,230	155,850,563	422,936,793	37		
1934	294,980,092	166,773,271	461,753,363	36		

Table 28 - AVERAGE WHOLESALE TANK WAGON PRICES FOR GASOLINE, ETC., BY MONTHS, 1934.

	Halifax	Montreal	Toronto	Winnipeg	Regina	Calgary	Vancouver
	\$	\$	\$	\$	\$	\$	\$
<u>Gasoline -</u>							
January .....	.195	.180	.185	.217	.230	.225	.210
February .....	.195	.180	.185	.217	.230	.225	.210
March .....	.195	.180	.185	.217	.230	.225	.210
April .....	.195	.180	.185	.217	.230	.225	.210
May .....	.195	.180	.155	.217	.230	.225	.210
June .....	.180	.180	.155	.217	.230	.225	.210
July .....	.180	.180	.155	.217	.230	.225	.210
August .....	.180	.180	.150	.217	.230	.225	.210
September .....	.180	.180	.150	.217	.230	.225	.210
October .....	.180	.180	.150	.217	.230	.225	.200
November .....	.180	.180	.150	.217	.230	.225	.200
December .....	.180	.180	.150	.217	.230	.225	.200
Yearly Average.	.186	.180	.163	.217	.230	.225	.208
<u>Kerosene</u>							
Fuel oil, light .....	.210	.170	.175	.202	.215	.210	.240
Lubricating oils (Atlantic red oil) .....	...	...	.080	...	...	...	...
	...	...	.293	...	...	...	...

Table 29 - APPARENT CONSUMPTION IN CANADA OF GASOLINE, FUEL OIL, KEROSENE AND LUBRICATING OIL, 1932, 1933 and 1934.

	Fuel Oil(a) Imp.gal.	Gas Oil Imp.gal.	(b) Gasoline Imp.gal.	Lubricating Oil Imp.gal.	Kerosene Imp.gal.
<u>1932</u>					
Production	366,273,887		399,942,678	15,606,791	52,525,057
Plus imports	89,608,822		101,553,775	11,602,919	1,670,205
	455,882,709		501,496,453	27,209,710	54,195,262
Less exports and re- exports	7,297,332		4,214,352	...	888,773
	448,585,377		497,282,101	27,209,710	53,306,489
Plus decline in refinery stocks	11,780,779		7,949,752	...	1,228,096
	460,366,156		505,231,853	27,209,710	54,534,585
Less increase in refinery stocks .....	...		...	1,080,724	...
APPARENT CONSUMPTION ..	460,366,156		505,231,853	26,128,986	54,534,585
<u>1933</u>					
Production	338,465,105	91,848,987	422,936,793	17,826,220	49,028,329
Plus imports	70,168,321	60,331	56,810,637	9,868,734	1,569,384
	408,633,426	91,909,318	479,747,430	27,694,954	50,597,713
Less exports and re- exports	10,658,848	...	4,050,640	...	1,001,014
	397,974,578	91,909,318	475,696,790	27,694,954	49,596,699
Plus decline in refinery stocks .....	...	...	...	2,862,493	...
	397,974,578	91,909,318	475,696,790	30,557,493	49,596,699
Less increase in refinery stocks	8,194,946	...	12,520,346	...	7,234,226
APPARENT CONSUMPTION ..	389,779,632	91,909,318	463,176,444	30,557,493	42,362,473

Table 29 - APPARENT CONSUMPTION IN CANADA OF GASOLINE, FUEL OIL, KEROSENE AND LUBRICATING OIL, 1932, 1933 and 1934 (concluded).

	Fuel Oil (a) Imp.gal.	Gas Oil Imp.gal.	(b) Gasoline Imp.gal.	Lubricating Oils Imp. gal.	Kerosene Imp. gal.
<u>1934</u>					
Production	353,989,989	102,005,356	461,753,363	19,472,448	37,741,993
Plus imports	56,441,445	131,273	61,531,370	10,521,324	1,985,730
	410,431,434	102,136,614	523,335,233	29,993,772	39,727,723
Less exports and re- exports	5,433	...	4,762,672	...	732,350
	410,425,996	102,136,614	518,572,561	29,993,772	38,945,332
Plus decline in refinery stocks .....	...	151,302	6,050,030	...	3,732,146
	410,425,996	102,337,916	524,622,641	29,993,772	42,727,528
Less increase in refinery stocks	9,703,307	...	...	3,059,978	...
APPARENT CONSUMPTION ..	400,722,689(c)	102,337,916	524,622,641	26,933,794	42,727,528

(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 should really be omitted when compiling figures of Canadian consumption. In 1932, the amount under this item was 32,008,998 gallons, in 1933, 26,896,996 gallons and in 1934, 23,481,946 gallons.

(b) Production figures for gasoline do not include engine distillate, etc., which may be used as auto or tractor fuel; nor do they include the Turner Valley naphtha sold to consumers at the wells. These gallonages are, however, probably included in the gross sales of gasoline as computed from taxes paid to the Alberta government (see Table 30).

(c) Exclusive of fuel oil for cracking operations.

Table 30 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1930 - 1934.

(Includes Sales for all purposes, according to Provincial tax returns).

Provinces	1930	1931	1932	1933	1934
(Imperial gallons)					
Prince Edward Island	2,817,052	3,021,631	2,692,351	2,518,812	2,639,856
Nova Scotia	19,367,349	21,139,937	19,021,209	18,634,875	20,003,083
New Brunswick	16,195,481	16,027,155	13,671,394	12,574,097	13,640,325
Quebec	88,849,323	97,608,511	91,128,040	87,077,418	93,511,483
Ontario	243,267,123	250,415,880	233,945,231	228,415,717	252,976,407
Manitoba	36,353,462	30,307,724	26,185,160	24,895,531	27,694,263
Saskatchewan	76,630,024	49,449,629	33,635,929	31,837,173	36,784,519
Alberta	51,676,343	43,478,465	41,300,236	40,323,781	45,194,297
British Columbia ...	47,182,784	45,369,473	39,458,159	38,689,475	42,337,735
CANADA	582,338,941	556,868,535	501,037,709	484,966,879	534,782,018

Table 31 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1930 - 1934.

(Includes sales for all purposes)

Months	1930	1931	1932	1933	1934
	(Imperial gallons)				
January	20,937,034	23,117,601	25,198,895	27,384,021	24,300,057
February	21,190,874	25,332,846	26,742,284	22,441,414	22,197,254
March	28,922,603	26,310,957	26,695,250	26,294,104	26,160,700
April	42,086,848	39,186,167	35,165,374	30,597,785	35,443,657
May	58,016,900	56,205,217	47,013,144	43,095,468	46,311,499
June	63,101,021	55,612,977	50,996,451	48,993,513	53,590,880
July	69,931,889	67,242,171	51,519,110	56,593,594	61,880,074
August	71,407,412	63,471,618	61,445,860	61,942,393	63,316,327
September	70,584,345	61,848,713	63,507,469	60,484,940	63,569,055
October	53,619,746	54,845,501	43,373,998	43,391,623	56,461,839
November	50,194,450	44,854,087	40,213,080	35,560,469	46,855,910
December	32,345,819	33,340,680	29,161,797	28,187,545	34,694,766
TOTAL	582,338,941	556,868,535	501,037,709	484,966,879	534,782,018

Table 32 - NET SALES OF GASOLINE IN CANADA, BY PROVINCES, 1930 - 1934.

(No refunds made - used for automobiles)

Provinces	1930	1931	1932	1933	1934
	(Imperial gallons)				
Prince Edward Island	2,495,112	2,614,970	2,263,020	2,101,204	2,201,905
Nova Scotia	17,497,793	18,176,943	18,445,130	17,970,045	19,396,937
New Brunswick	15,252,130	15,077,095	12,860,471	11,062,961	11,741,220
Quebec	83,466,961	91,813,749	34,651,331	80,511,245	88,223,973
Ontario	219,069,450	226,192,080	217,593,086	214,397,088	239,500,357
Manitoba	24,512,667	22,142,728	21,517,430	21,824,425	25,999,205
Saskatchewan	31,248,449	26,479,633	21,998,369	19,241,325	27,015,504
Alberta	36,721,728	24,746,025	30,220,478	27,277,311	32,525,148
British Columbia ...	30,773,217	36,052,087	31,285,539	29,462,331	32,523,721
CANADA	461,037,507	463,298,366	440,835,414	423,849,085	479,132,970

Table 33 - SALES OF GASOLINE IN CANADA FOR ALL PURPOSES, 1934.

(in thousands of gallons)

	Prince Edward Island	New Nova Scotia	New Brunsw- wick	Quebec	Ontario	Manitoba	Saskat- chevan	Alberta	British Colum- bia	TOTAL
Jan. .	21	650	208	3,793	13,564	989	729	1,761	2,585	24,300
Feb. .	22	487	204	3,562	11,909	935	839	1,752	2,487	22,197
March.	48	760	280	3,740	13,858	1,130	1,269	2,234	2,842	26,161
April.	82	1,167	476	5,141	17,700	1,559	2,412	3,755	3,152	35,444
May ..	339	2,035	1,374	9,231	19,783	2,532	3,248	4,020	3,749	46,311
June .	342	2,150	1,605	10,164	24,390	2,973	3,453	3,878	4,036	53,591
July .	367	2,528	1,981	11,644	28,835	3,189	4,337	4,565	4,435	61,880
August	397	2,698	2,054	12,110	27,467	3,494	4,999	5,504	4,593	63,316
Sept..	348	2,246	1,863	10,539	30,967	3,344	5,197	4,760	4,305	63,569
Oct. .	312	2,160	1,627	10,133	23,755	3,265	5,075	6,082	4,053	56,462
Nov. .	257	1,820	1,198	7,798	22,643	2,541	3,299	4,067	3,233	46,856
Dec. .	105	1,302	770	5,565	17,506	1,744	1,928	2,816	2,868	34,695
TOTAL for										
1934	2,640	20,003	13,640	93,511	252,977	27,694	36,785	45,194	42,338	534,782
TOTAL for										
1933	2,519	18,635	12,574	87,077	228,416	24,896	31,837	40,324	38,689	484,367

Table 34 - REVENUES FROM GASOLINE TAX, BY PROVINCES, 1930 - 1934.

Provinces	1930	1931	1932	1933	1934
	\$	\$	\$	\$	\$
Prince Edward Island	128,366	112,867	134,398	166,831	174,485
Nova Scotia	851,725	878,082	957,781	933,571	1,303,046
New Brunswick	659,797	696,481	782,261	865,790	852,199
Quebec	4,075,368	4,405,160	5,250,172	4,952,764	5,127,448
Ontario	10,756,836	10,810,914	13,510,755	12,852,577	13,828,051
Manitoba	1,099,778	1,094,700	1,514,260	1,643,600	1,770,900
Saskatchewan	1,538,556	1,310,147	1,328,951	1,289,989	1,715,053
Alberta	1,939,048	1,472,068	1,551,227	1,739,240	1,960,349
British Columbia ...	1,605,751	1,765,700	2,053,511	2,023,403	2,323,322
CANADA	22,655,225	22,546,119	27,083,316	26,467,765	29,054,853

Table 35 - DATES WHEN GASOLINE ACTS BECAME EFFECTIVE AND RATES OF TAX

Provinces	Dates gasoline rates became effective	Rates per gallon
Prince Edward Island	May 1, 1924	2 cents
	March 31, 1926	3 cents
	May 1, 1928	5 cents
	May 2, 1932	6 cents
	April 15, 1933	8 cents
Nova Scotia	March 15, 1926	3 cents
	March 11, 1927	5 cents
	April 1, 1932	6 cents
	May 1, 1934	8 cents
New Brunswick	April 30, 1926	3 cents
	December 1, 1928	5 cents
	April 1, 1932	7 cents
	April 1, 1934	8 cents
Quebec	April 1, 1924	2 cents
	April 1, 1925	3 cents
	April 1, 1928	5 cents
	December 17, 1931	6 cents
Ontario	May 11, 1925	3 cents
	March 27, 1929	5 cents
	March 25, 1932	6 cents
Manitoba	April 27, 1923	1 cent
	March 5, 1925	3 cents
	April 14, 1930	5 cents
	May 7, 1932	7 cents (refund 5 cents)
Saskatchewan	May 1, 1928	3 cents
	March 27, 1930	5 cents
	May 1, 1932	6 cents
	April 1, 1935	7 cents
Alberta	April 30, 1922	2 cents
	June 1, 1929	5 cents (refund 4 cents)
	April 1, 1933	6 cents (refund 5 cents)
	April 1, 1935	7 cents (refund 6 cents)
British Columbia	December 21, 1923	3 cents
	March 25, 1930	5 cents
	April 18, 1932	7 cents

Table 36 - REGISTRATIONS(x) OF MOTOR VEHICLES IN CANADA, 1904 - 1934.

Years	Number	Years	Number
1904	535	1920	408,790
1905	565	1921	464,805
1906	1,447	1922	509,382
1907	2,148	1923	575,985
1908	3,054	1924	645,263
1909	4,809	1925	724,048
1910	9,158	1926	832,268
1911	21,783	1927	939,651
1912	36,429	1928	1,069,343
1913	54,380	1929	1,187,331
1914	74,246	1930	1,232,489
1915	95,284	1931	1,200,668
1916	128,328	1932	1,113,533
1917	203,502	1933	1,083,178
1918	276,893	1934	1,129,532
1919	342,433		

(x) Includes motor cycles, road tractors and government and municipal motor vehicles.

Table 37 - REGISTRATIONS OF MOTOR VEHICLES(x) IN CANADA, BY PROVINCES, 1929-1934.

Provinces	1930	1931	1932	1933	1934
	No.	No.	No.	No.	No.
Prince Edward Island	7,376	7,744	6,982	6,940	7,206
Nova Scotia	43,029	43,758	41,153	40,443	41,932
New Brunswick	34,699	33,627	28,044	26,842	29,094
Quebec	178,548	177,485	165,730	160,012	165,526
Ontario	562,658	562,220	531,597	520,353	542,245
Manitoba	78,850	75,210	71,570	68,740	70,430
Saskatchewan	127,193	107,981	91,275	84,734	91,461
Alberta	101,119	94,727	86,878	86,110	89,369
British Columbia	98,784	97,932	91,042	88,554	92,021
Yukon	230	223	232	229	248
CANADA	1,232,486	1,200,907	1,114,503	1,082,957	1,129,532

(x) Includes motor cycles, road tractors, and government and municipal motor vehicles.

Table 38 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1934.

Provinces	Passenger cars	Taxi-cabs	Motor trucks	Motor buses	Motor cycles	Ambulances, hearses, etc.	TOTAL
	No.	No.	No.	No.	No.	No.	No.
Prince Edward Island ..	6,409	...	774	...	23	...	7,206
Nova Scotia	34,443	...	6,839	45	329	276	41,932
New Brunswick	24,614	...	4,089	60	148	183	29,094
Quebec	131,333	4,108	26,371	497	2,414	803	165,526
Ontario	470,617	...	67,160	(1)	4,468	...	542,245
Manitoba	58,962	323	10,490	65	590	...	70,430
Saskatchewan	74,050	...	17,000	53	358	...	91,469
Alberta	73,114	330	15,383	73	469	...	89,369
British Columbia	73,997	...	16,529	...	1,495	...	92,021
Yukon	127	...	82	3	12	24	248
CANADA	947,666	4,761	164,717	796	10,306	1,286	1,129,532

(1) Included with motor trucks.

Table 39 - NUMBER OF TRACTORS ON CANADIAN FARMS ACCORDING TO THE DECENNIAL CENSUS
TAKEN ON JUNE 1, 1931.

	Number of Tractors reported	Number of Farms reporting Tractors
Prince Edward Island	176	169
Nova Scotia	424	415
New Brunswick	289	279
Quebec	2,417	2,356
Ontario	18,993	18,318
Manitoba	14,366	12,983
Saskatchewan	43,308	39,434
Alberta	23,985	21,996
British Columbia	1,402	1,312
CANADA	105,360	97,262

Table 40 - PETROLEUM FUELS MARKETED IN CANADA, BY PROVINCES, CALENDAR YEARS 1931 - 1933.
NOTE - Figures taken from "Petroleum Fuels in Canada" issued by the Mines Branch, Department of Mines, in co-operation with the Dominion Fuel Board.

Province	Fuel oil	Kerosene	Gasoline	TOTAL	Per cent	Coke
	Millions of Imp. gal.					Thousands of short tons
<u>1933</u>						
New Brunswick and Prince Edward Island						
Edward Island	6	2	15	23	2)	0.4
Nova Scotia	23	2	19	44	5)	
Quebec	111	6	87	206	23	2.2
Ontario	70	10	228	308	35	61.5
Manitoba	6	4	24	34	4	nil
Saskatchewan	10	8	32	50	5)	18.1
Alberta	11	9	40	60	7)	
British Columbia	126	1	39	166	19	nil
TOTAL	(c)363	42	484	(c)889	...	82.2
per cent	41	5	54	...	100	...
<u>1932</u>						
New Brunswick and Prince Edward Island						
Edward Island	4	2	16	22	2)	0.4
Nova Scotia	22	2	19	43	5)	
Quebec	116	5	91	212	23	10.0
Ontario	69	8	234	311	34	67.4
Manitoba	5	6	26	37	4)	
Saskatchewan	9	13	34	56	6)	16.0
Alberta	13	7	41	61	6)	
British Columbia	151	2	40	193	20)	
TOTAL	(c)389	45	501	(c)935	...	93.8
Per cent	41	5	54	...	100	...
<u>1931</u>						
New Brunswick and Prince Edward Island						
Edward Island	8	2	19	29	3)	1.0
Nova Scotia	28	2	21	51	5)	
Quebec	126	6	98	230	23	18.4
Ontario	66	12	250	328	32	40.8
Manitoba	5	6	30	41	4)	
Saskatchewan	5	11	49	65	6)	
Alberta	11	11	44	66	7)	20.0
British Columbia	150	2	45	197	20)	
TOTAL	(c)399	52	556	(c)1,007	...	80.2
Per cent	40	5	55	...	100	...

(c) Excludes 56 of fuel oil consumed in oil refineries in 1933, 53 in 1932 and 55 in 1931.

Table 41 - FUEL OIL DELIVERIES, SPECIFIC USES, BY PROVINCES. (As reported by distributors and importers - Imperial gallons - Calendar years)

NOTE - Figures taken from "Petroleum Fuels in Canada" issued by the Mines Branch, Department of Mines, in co-operation with the Dominion Fuel Board.

Area	DOMESTIC AND BUILDING		INDUSTRIAL (and manu- facturers') heating	TRACTOR fuel oil, not lubricant	RAILWAYS principally locomotive and shop fuel	BUNKERING includes distribu- tors' tankers	TOTAL	Per cent of total
	heating						DELIVERIES	
	Domestic cus- tomers	Quantity					IMPERIAL GALLONS	
	No.							
<u>1933</u>								
N.B. and P.E.I.	1,973	1,979,990	714,277	25,932	1,872,148	1,551,992	6,144,339	1.7
Nova Scotia	2,496	1,899,192	4,683,571	228,961	91,893	16,429,504	23,333,126	6.4
Quebec	19,505	44,252,995	16,045,348	22,242	528,076	49,827,340	110,676,601	30.5
Ontario	24,096	31,972,187	28,385,558	1,644,991	1,536,686	6,268,713	69,808,135	19.3
Prairies	1,409	3,156,964	5,583,811	10,426,241	7,818,010	...	26,985,026	7.4
British Columbia	3,742	13,795,430	19,024,953	282,575	37,642,560	54,934,398	125,679,916	34.7
CANADIAN	Not shown separately							
IMPORTED	Not shown separately							
TOTAL	53,221	97,056,758	74,437,518	12,630,942	49,489,378	129,012,547	362,627,143	100.0
Per cent								
<u>1932</u>								
N.B. and P.E.I.	577	1,358,518	791,489	4,608	252,987	1,634,124	4,041,726	1.0
Nova Scotia	663	1,350,858	4,734,042	14,503	107,611	15,427,378	21,654,392	5.6
Quebec	16,016	26,534,160	26,040,790	31,504	3,823,062	59,597,356	116,027,372	29.8
Ontario(a)	15,640	31,677,078	25,786,791	3,837,542	2,132,088	5,286,172	68,719,671	17.6
Prairies	1,543	3,083,152	6,294,897	8,550,508	10,001,789	Nil	27,930,346	7.2
British Columbia.	2,539	13,553,792	18,587,622	151,610	40,674,351	78,085,566	151,052,941	38.8
CANADIAN . . . . .	...	64,187,783	69,849,081	10,682,763	56,908,160	110,222,823	310,850,610	79.8
IMPORTED . . . . .	...	13,369,775	13,386,550	1,907,512	83,723	49,803,273	78,555,833	20.2
TOTAL	36,978	77,557,558	82,235,631	12,590,275	56,991,833	160,031,096	389,406,448	...
Per cent . . . . .	...	19.9	21.1	3.2	14.7	41.1	...	100.0

Amounts respectively recorded 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 and as required Fuel oil of all grades between 5° and about 42° A.P.I. and processed from petroleum.

Table 41 - FUEL OIL DELIVERIES, SPECIFIC USES, BY PROVINCES. (As reported by distributors and importers - Imperial gallons - Calendar Years) concluded

Area	DOMESTIC AND BUILDING heating		INDUSTRIAL (and manufacturers' heating)	TRACTOR fuel oil, not lubricant	RAILWAYS principally locomotive and shop fuel	BUNKERING includes distributors' tankers	TOTAL DELIVERIES IMPERIAL GALLONS	Per cent of total
	Domestic consumers	Quantity						
<u>1931</u>								
N.E. and P.E.I.	482	1,524,075	937,890	24,833	61,891	5,965,932	8,514,621	2.1
Nova Scotia	543	1,090,544	7,866,406	Nil	3,652,361	14,927,159	27,516,470	6.9
Quebec	13,760	29,074,288	28,426,161	Nil	1,427,334	67,304,656	126,232,439	31.6
Ontario (a)	14,116	27,928,036	28,133,390	276,978	1,356,775	8,595,139	66,346,023	16.6
Prairies	1,548	2,565,762	7,237,843	3,291,445	8,055,715	Nil	21,160,370	5.3
British Columbia	1,986	11,057,901	36,162,617	Nil	43,211,857	59,211,371	149,643,746	37.5
CANADIAN . . . . .	...	63,450,783	74,114,840	3,132,852	57,737,540	131,096,470	329,532,490	82.5
IMPORTED . . . . .	...	9,799,468	34,705,072	460,404	8,393	24,907,847	69,881,184	17.5
TOTAL	32,435	73,250,256	108,819,912	3,593,256	57,745,933	156,004,317	599,413,674	...
Per cent . . . . .	...	18.3	27.2	0.9	14.5	39.1	...	100.0
<u>1930</u>								
N.B. and P.E.I.		1,306,787	855,937	Nil	68,841	9,241,015	11,472,580	2.7
Nova Scotia	Not	1,418,952	5,647,277	Nil	78,591	13,554,834	20,693,654	4.9
Quebec		21,481,018	24,587,946	646,763	3,054,010	72,534,430	122,304,167	28.8
Ontario	com-	33,115,158	33,102,311	472,867	1,512,867	11,561,353	79,764,556	18.8
Prairies		3,870,673	8,182,609	2,977,802	13,215,928	Nil	28,247,012	6.6
British Columbia	plete	13,182,978	42,947,383	209,135	55,797,810	50,201,665	162,338,971	38.2
CANADIAN . . . . .	...	65,177,278	80,096,658	4,014,973	73,653,440	128,906,031	351,848,440	82.8
IMPORTED . . . . .	...	9,198,288	35,226,795	291,594	74,607	28,187,216	72,978,500	17.2
TOTAL . . . . .	...	74,375,566	115,323,463	4,306,567	73,728,047	157,093,297	424,826,940	...
Per cent . . . . .	...	17.5	27.1	1.0	17.4	36.9	...	100.0

Amounts respectively recorded 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 and as required. Fuel oil of all grades between 5° and about 42° A.P.I. and processed from petroleum.

(a) Partially estimated.

Table 42 - DISTRIBUTION OF SALES OF MARKETERS(1) OF PETROLEUM PRODUCTS, 1933.

(From reports issued by the Census of Merchandising and Service Establishments, Dominion Bureau of Statistics, Ottawa).

Economic Division	Sales to Firms Reporting 1933 \$	Percentage of Sales to -						
		Sales to Jobbers p.c.	(2) Sales to Retailers p.c.	Sales to Farmers and Other Primary Producers p.c.	Other Wholesale Sales p.c.	Sales at Retail Prices p.c.	(3)	
							Export Sales p.c.	Other p.c.
CANADA, Total	155,374,800	21.6	46.0	11.9	14.5	4.0	1.4	.6
Maritime Provinces	11,523,600	16.7	57.3	15.1	9.6	.3	.6	.4
Quebec	26,509,300	21.8	50.7	1.3	22.0	3.0	.8	.4
Ontario	63,076,600	21.0	52.6	4.1	11.8	7.3	2.9	.3
Manitoba	8,997,700	22.3	38.3	27.5	10.0	1.6	-	.3
Saskatchewan	14,574,200	25.2	32.5	38.9	2.4	.6	-	.4
Alberta	13,486,600	24.5	33.1	31.1	10.7	.2	-	.4
British Columbia	17,206,800	20.8	32.6	8.7	31.8	3.3	-	2.8

(1) Includes marketing organizations of refining companies as well as jobbers.

(2) Includes company-owned filling stations.

(3) Export sales are attributed to offices reporting such sales.

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Table 43 - FREIGHT MOVEMENT IN PETROLEUM PRODUCTS - REVENUE FREIGHT CARRIED BY CANADIAN RAILWAYS, 1934.

Provinces and commodities	Freight originated				Freight terminated			
	Loaded at stations in province	Received from foreign connections destined to			Unloaded at stations in provinces	Delivered to foreign connections	Export via rail column 1-5	Import column 5-1
		Canadian	Foreign	TOTAL				
		points	points					
1	2	3	4	5	6	7	8	
<u>Prince Edward Island</u>								
Crude petroleum .....	...	...	...	...	...	...	...	...
Asphalt	49	...	...	49	1,520	...	...	1,471
Gasoline	2,862	...	...	2,862	9,391	...	...	6,529
Other petroleum products	727	...	...	727	3,415	...	...	2,688
<u>Nova Scotia</u>								
Crude petroleum .....	...	...	...	...	...	66	...	...
Asphalt	8,628	...	...	8,628	3,241	...	5,397	...
Gasoline	53,712	...	...	53,712	64,429	15	...	10,717
Other petroleum products	31,094	103	...	31,197	26,101	247	4,993	...
<u>New Brunswick</u>								
Crude petroleum	27	...	...	27	27	...	...	...
Asphalt	152	...	...	152	6,913	...	...	6,761
Gasoline	48,408	85	5,095	53,588	43,470	3,756	4,938	...
Other petroleum products	8,037	908	673	9,618	19,977	916	...	11,940
<u>Quebec</u>								
Crude petroleum	1,168	56	...	1,224	62	144	1,106	...
Asphalt	47,410	1,333	993	49,736	19,534	417	27,876	...
Gasoline	235,077	17,577	18,271	270,925	233,350	7,463	1,727	...
Other petroleum products	103,910	8,154	9,250	121,314	130,552	6,188	...	26,642

<u>Ontario</u>									
Crude petroleum	10,965	39,497	211	50,673	37,709	265	...	26,744	
Asphalt	42,853	4,249	9,582	56,684	68,109	9,742	...	26,256	
Gasoline	478,411	68,583	34,948	581,942	453,861	37,072	19,550	...	
Other petroleum products	260,801	49,148	54,343	364,292	235,069	61,765	25,732	...	
<u>Manitoba</u>									
Crude petroleum .....	...	41,186	...	41,186	43,549	...	...	43,549	
Asphalt	20	351	...	371	4,026	...	...	4,006	
Gasoline	5,858	10,197	...	16,055	113,818	27	...	107,960	
Other petroleum products	13,145	6,442	27	19,614	52,344	...	...	39,199	
<u>Saskatchewan</u>									
Crude petroleum	9,907	225,228	...	235,135	247,194	...	...	237,287	
Asphalt	2,462	...	...	2,462	801	...	1,661	...	
Gasoline	82,680	6,318	...	88,998	102,865	...	...	20,185	
Other petroleum products	64,439	3,631	511	68,581	84,054	14	...	19,615	
<u>Alberta</u>									
Crude petroleum	5,665	130,089	...	135,754	128,251	...	...	122,586	
Asphalt	3,763	36	...	3,799	2,971	318	792	...	
Gasoline	113,949	3,723	...	117,672	100,385	...	13,564	...	
Other petroleum products	84,794	1,462	...	86,256	95,157	...	...	10,403	
<u>British Columbia</u>									
Crude petroleum	167	108	...	275	398	...	...	231	
Asphalt	3,292	195	...	3,467	3,931	...	...	639	
Gasoline	52,633	354	768	53,755	51,691	856	942	...	
Other petroleum products	37,017	2,225	152	39,394	28,659	885	8,358	...	

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1934.

Name of Company	Location of refinery	Crude oil capacity Bbls per 24 hours	Type of refinery	Cracking plant	
				Type	Capacity Bbls per 24 hours
<u>NOVA SCOTIA -</u>					
Imperial Oil Limited	Imperoyal	11,000	S - C	Tube & Tank	7,000
<u>NEW BRUNSWICK -</u>					
New Brunswick Gas & Oilfields Ltd.	Weldon	100	S	-	-
<u>QUEBEC -</u>					
British American Oil Refineries Limited	Montreal East	12,000	S - C	Liquid and vapour phase	6,000
Imperial Oil Limited	Montreal East	30,000	S - C	Tube & Tank	12,000
LaSalle Petroleum Refinery Limited	Montreal East	2,500	S	-	-
McCull-Frontenac Oil Co. Limited	Montreal East	12,000	S - C	2 Jenking units 1 Kellogg unit	8,000
Shell Oil Company of Canada Limited	Montreal East	5,000	S - C	Dubbs	4,000
<u>ONTARIO -</u>					
British American Oil Refineries Limited	Toronto	6,000	S - C	Liquid and vapour phase	3,000
Burlington Refineries Ltd.	Hamilton	600	S	-	-
Canadian Oil Refineries Limited	Petrolia	1,400	S	-	-
Good Rich Refining Co. Ltd.	Toronto	250	S	-	-
Imperial Oil Limited	Sarnia	25,000	S - C	Tube & Tank	15,000
Lloyd Refineries Ltd.	Port Credit	1,600	S	-	-
McCull-Frontenac Oil Co. Limited	Toronto	5,000	S - C	2 Jenkins units 3 Gyro units	3,500
<u>MANITOBA -</u>					
Direct Oil Refineries Ltd.	St. Boniface	200	S	-	-
North Star Oil Limited	St. Boniface	700	S	-	-
Radio Oil Refineries Ltd.	East Kildonan	1,200	S	-	-
<u>SASKATCHEWAN -</u>					
British American Oil Refineries Limited	Moose Jaw	4,000	S - C	Liquid and vapour phase	2,000
Hi-Way Refineries Limited	Regina	200	S	-	-
Imperial Oil Limited	Regina	7,000	S - C	Tube & Drum	3,800
Karels' Hi-Way Refinery Ltd.	Regina	350	S - C	Baize	350
Moose Jaw Hi-Way Refinery Ltd.	Moose Jaw	200	S	-	-
Prince Albert Hi-Way Refinery Limited	Prince Albert	200	S	-	-
Rosetown Hi-Way Refinery Limited	Saskatoon	200	S	-	-
Saskatoon Hi-Way Refinery Ltd.	Saskatoon	200	S	-	-
Swift Current Hi-Way Refinery Limited	Swift Current	200	S	-	-
Weyburn Hi-Way Refinery Ltd.	Weyburn	300	S	-	-

STATE OF NEW YORK

IN SENATE

January 10, 1907

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

IN ANSWER TO A RESOLUTION PASSED BY THE SENATE

APRIL 11, 1906

ALBANY:

AND

SYRACUSE:

THE CHAMBERLAIN MANUFACTURING COMPANY, PRINTERS

1907

NEW YORK

STATE OF NEW YORK

IN SENATE

January 10, 1907

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