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1. FUEL SALES OF LIQUIFIED PETROLEUM GASES - 1964  
WITH COMPARATIVE DATA FOR 1963

Sales of liquified petroleum gases (L.P.G.'s) during 1964 amounted to 7.0 million barrels, an increase of 20.8% over 1963 sales of 5.8 million. The major contributing factors to this increase was an abundant supply of product in Western Canada, and a reduction of transportation costs giving L.P.G's a stronger competitive position in the heating and fuel markets of Eastern Canada. Largest increase was in Manitoba 80.0%, and the largest increase in volume was in Ontario with a total gain of over 400,000 barrels.

Oil refinery and natural gas processing plant production of liquified petroleum gases increased to 20.5 million barrels during 1964, compared to 15.9 million in 1963. Natural gas processing plants in Western Canada produced 12.0 million barrels during 1964, an increase of 67% over 1963 production of 5.8 million barrels.

Production not reaching the heating and fuel markets is utilized as raw material supply for petrochemical plants, oil refineries and secondary recovery projects in oil producing areas.

The term "Liquified Petroleum Gases" (L.P.G.'s) is intended to include refinery and natural gas processing plant production of propane and propylene, butanes, butylenes and mixtures of these products.

The worlds' largest "deep cut" natural gas processing plant commenced operations during April 1964 at Empress Alberta. This plant reprocesses natural





gas from the Trans-Canada Pipeline removing L.P.G.'s and delivering them via a 578 mile product pipeline to Winnipeg, Manitoba. Product from the other gas processing plants is transported to market via jumbo tank cars, or enters the crude oil stream for delivery to oil refineries.

Railway tariffs on L.P.G.'s in years prior to 1964 restricted the competitive pricing of these products in Eastern Canada. These tariffs were reduced as a result of competition from product pipelines together with improved rail transport vehicles, such as jumbo tank cars which tripled the volume per tank car load from approx. 250 barrels to 750 barrels. The pound for pound cost of transporting L.P. gas is higher than for other refined petroleum fuel products, however, on a heating value basis transportation costs are competitive. The following table compares the B.T.U. content per pound of product for the following heating fuels.

	<u>B.T.U. content range</u>
Coal and Coke .....	12,000 - 14,000/pound
Kerosene .....	19,800 /pound
Fuel Oil .....	19,000 - 19,500/pound
Methane (Natural gas) .....	23,900 /pound
Propane .....	21,600 /pound

Railway tariffs from Western Canada for standard tank car loads and jumbo tank cars are compared with the old rates in the following table.

	<u>Approximate Railway Tariffs</u> <u>Western Canada to Eastern Canada</u>			
	<u>Standard tank car</u> <u>per hundredweight</u>		<u>Jumbo tank car</u> <u>per hundredweight</u>	
	<u>1963</u>	<u>1964</u>	<u>1963</u>	<u>1964</u>
Alberta to Toronto .....	\$1.81	\$1.27	\$1.81	\$ .96
Alberta to Montreal .....	2.11	1.58	2.11	.96
Winnipeg to Toronto .....	1.70	1.16	1.70	.78
Winnipeg to Montreal .....	2.00	1.47	2.00	.78

Sales figures in the attached table are primarily for propane with the exception of sales to gas utilities in British Columbia and a portion of the industrial consumption in Ontario.

In the following table 1964 and comparative figures with the 1963 pilot survey are presented. The assistance of industry and provincial governments was utilized and gratefully acknowledged.

Total sales for both 1964 and 1963 have been reconciled to reported production and net sales as published in the "Refined Petroleum Products" publication (catalogue No. 45-204) for each year. Residential, commercial farm and commercial transportation figures have been consolidated for 1963 and 1964.



Fuel Sales of Liquified Petroleum Gases

	New- foundland	Maritimes	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	N.W.T. and Yukon	Canada
barrels of 35 Canadian gallons										
<u>1963</u>										
Residential-Commercial farm	10,104	256,203	639,583	1,076,752	172,805	418,077	1,434,679	546,970	15,587	4,570,760
Industrial .....	-	84,127	303,336	362,096	18,753	16,975	-	57,418	-	842,705
Gas utilities .....	-	-	85,466	32,790	134,030	-	37,355	116,254	-	405,895
Totals .....	10,104	340,330	1,028,385	1,471,638	325,588	435,052	1,472,034	720,642	15,587	5,819,360
<u>1964</u>										
Residential-Commercial farm	11,507	442,640	936,712	1,453,923	232,831	439,379	1,448,759	521,222	13,691	5,500,664
Industrial .....	-	125,586	267,116	363,469	53,728	44,867	-	112,005	-	966,771
Gas utilities .....	-	-	35,511	68,444	299,766	-	24,063	137,625	-	565,409
Totals .....	11,507	568,226	1,239,339	1,885,836	586,325	484,246	1,472,822	770,852	13,691	7,032,844
<u>Increase (Decrease)</u>										
Residential-Commercial farm	1,403	186,437	297,129	377,171	60,026	21,302	14,080	(25,748)	(1,896)	929,904
Industrial .....	-	41,459	(36,220)	1,373	34,975	27,892	-	54,587	-	124,066
Gas utilities .....	-	-	(49,955)	35,654	165,736	-	(13,292)	21,371	-	159,514
Totals .....	1,403	227,896	210,954	414,198	260,737	49,194	788	50,210	(1,896)	1,213,484
Total Percentage Change ...	13.8%	66.9%	20.5%	28.1%	80.0%	11.3%	-	6.9%	-	20.8%





2. Anticipated Crude Oil Requirements Anticipated crude oil or equivalent requirements for 1965 amounted to 354.7 millions of barrels or 971,663 barrels per day representing an increase of 3.3% over 1964.

Actual refinery receipts for the first 11 months of 1965 amounted to 322.6 millions of barrels or 965,739 barrels per day representing an increase of 2.9% over the same period in 1964.

Imports of crude oil for 1965 are expected to be 145.8 millions of barrels or 399,460 barrels per day representing an increase of 1.3% over 1964.

# CANADIAN CRUDE OIL REQUIREMENTS

DECEMBER 1965

Anticipated and actual refinery receipts of crude oil,  
condensate and pentanes plus

	1965 actual	Anticipated actual			Anticipated 1966			
	1st 11 mos.	Dec.	Year 1965	1964	Jan.	Feb.	Mar.	April
'000 barrels per day								
<u>BY SOURCE</u>								
Domestic:								
Prairies .....	534	556	536	508	572	563	542	532
B.C. ....	33	12	31	33	24	36	38	37
N.W.T. ....	2	2	2	2	2	2	2	2
Ont. ....	3	3	3	3	4	4	4	4
TOTAL .....	572	573	572	546	602	605	586	575
Imported:	393	463	399	394	465	411	433	374
REQUIREMENT ..	965	1,036	971	940	1,067	1,016	1,019	949
<u>BY LOCATION</u>								
Atlantic .....	104	125	106	108	109	92	107	115
Que. ....	287	338	291	285	356	320	326	259
Ont. ....	301	314	302	283	329	321	316	314
Man. ....	39	38	39	37	42	43	36	36
Sask. ....	58	60	58	55	58	63	61	53
Alta. ....	91	89	91	88	95	81	72	75
B.C. ....	83	70	82	82	76	94	99	95
N.W.T. ....	2	2	2	2	2	2	2	2
REQUIREMENT ..	965	1,036	971	940	1,067	1,016	1,019	949
EXPORTS: (1) ..	295	289	295	278	310	328	..	..

(1) Reported by the pipeline companies.  
.. Figures not available.





3. Refined Petroleum Products. Output of refined petroleum products decreased 3.7% in November to 28,652,555 barrels from 29,746,984 in the same month last year, according to data that will be contained in the November issue of the DBS report "Refined Petroleum Products".

Receipts of crude oil advanced 2.4% in November to 29,949,972 barrels from 29,257,918 a year earlier, comprising 0.7% less domestic crude at 17,029,082 barrels versus 17,142,522 and 6.6% more imported crude at 12,920,890 barrels versus 12,115,396. Domestic disappearance of finished petroleum products rose 12.6% to 40,447,224 barrels from 35,921,783 in the same month last year.

REFINERY PRODUCTION In Canada Of Selected Petroleum Products, November 1965

	Motor gasoline	Kerosene stove oil	Fuel Oil			Total all products
			Diesel	Light	Heavy	
	barrels of 35 Canadian gallons					
Newfoundland	(1)	(1)	-	(1)	(1)	(1)
Maritimes ..	895,069	223,345	(2)	738,080	746,919	3,180,272
Quebec .....	2,724,766	532,959	877,913	1,835,162	1,870,784	8,741,173
Ontario ....	3,298,394	267,181	666,516	1,779,478	1,456,539	8,733,468
Manitoba ...	465,907	51,295	79,873	220,211	114,708	1,144,654
Saskatchewan	838,245	129,858	242,265	221,647	187,143	1,829,530
Alberta ....	1,289,059	58,741	494,153	300,575	160,320	2,775,478
N.W.T. and Yukon ....	868,947	-	7,007	131	2,077	30,720
B.C. ....	6,388	130,343	408,784	126,587	387,677	2,197,506
CANADA TOTAL	10,386,775	1,393,722	2,776,511	5,221,871	4,926,167	28,632,801

(1) Included with the Maritimes. (2) Included with Quebec.

NET SALES In Canada Of Selected Petroleum Products, November 1965

	Motor gasoline	Kerosene stove oil	Fuel Oil			Total all products
			Diesel	Light	Heavy	
	barrels of 35 Canadian gallons					
Newfoundland	150,407	138,561	169,588	179,788	83,021	776,753
Maritimes ..	677,142	318,563	272,132	739,295	941,369	3,129,527
Quebec .....	2,543,785	913,169	697,250	2,938,589	4,582,275	12,822,640
Ontario ....	4,006,538	402,185	672,681	3,745,085	2,228,321	12,650,399
Manitoba ...	537,294	120,844	212,836	227,445	136,329	1,454,305
Saskatchewan	712,966	199,198	275,476	197,329	68,435	1,698,225
Alberta ....	1,066,309	50,965	438,412	150,843	45,229	2,275,758
N.W.T. and Yukon .....	10,495	2,530	12,367	20,451	-	54,450
B.C. ....	1,033,687	185,285	473,256	445,206	700,544	3,169,021
CANADA TOTAL	10,738,623	2,331,300	3,223,998	8,644,031	8,785,523	38,031,078

IMPORTS Into Canada Of Selected Petroleum Products, November 1965

	Motor gasoline	Kerosene stove oil	Fuel Oil			Total all products
			Diesel	Light	Heavy	
	barrels of 35 Canadian gallons					
Maritimes ..	4,530	142,216	185,860	169,814	666,227	1,234,053
Quebec .....	195,650	463,150	260,470	1,416,863	3,338,774	6,028,268
Ontario .....	-	60,302	-	198,474	509,965	986,386
All other ..	73,326	46,841	72,177	-	392,538	626,395
CANADA TOTAL	273,506	712,509	518,507	1,785,151	4,907,504	8,875,102

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