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CONSUMPTION OF PETROLEUM FUELS IN CANADA, 1946

Deliveries of heavy fuel oils to Canadian users totalled 1,074.3 million gallons in 1946 according to a compilation made from reports submitted by refineries and their distributors and by major consumers. About 20 per cent of this total was for use in ships' bunkering, 28 per cent for fuel in manufacturing plants, 19 per cent for heating homes and buildings, 9 per cent for locomotive fuel, 3.5 per cent for tractors and other motor vehicles, 2.4 per cent for electric light plants, 2.7 per cent for material in manufacturing plants, and 15 per cent under refinery boilers. The provincial distribution was as follows, in millions of gallons: Maritimes, 123.6; Quebec, 259.3; Ontario, 343.9; Manitoba, 12.1; Saskatchewan, 44.3; Alberta, 74.2; and British Columbia, 216.8.

Most of the light fuel oils and distillates was used for domestic heating and for tractor fuel, the former at 117.7 million gallons in 1946, accounting for 69.7 per cent of the total, and the latter at 47.9 millions for 28 per cent. Total deliveries at 169.4 million gallons were distributed by provinces as follows, in millions of gallons: Maritimes, 14.5; Quebec, 64.3; Ontario, 23.7; Manitoba, 18.5; Saskatchewan, 19.6; Alberta, 13, and British Columbia, 15.6.

Kerosene deliveries in 1946 totalled 31.3 million gallons, of which 82.9 per cent or 26 millions was for use in stoves and lamps. Consumption in the Maritime Provinces was 3.1 millions, in Quebec 6.3 millions, in Ontario 10.3 millions, in Manitoba 2.4 millions, in Saskatchewan, 3.5 millions, in Alberta 4 millions, and in British Columbia 1.5 millions. In addition to the above, 21.7 million gallons of fuel oil and 2.6 million gallons of kerosene were shipped for export by Canadian refineries.

Deliveries of fuel oils and distillates for use in heating residences and other buildings in Canada during the past nineteen years were as follows:

Year	Millions of gallons	Year	Millions of gallons
1928	44.3	1938	119.1
1929	52.1	1939	136.1
1930	74.4	1940	150.1
1931	73.3	1941	146.8
1932	82.0	1942	124.0
1933	99.8	1943	95.4
1934	109.7	1944	103.3
1935	109.2	1945	143.8
1936	111.9	1946	322.9
1937	117.7		

Table 1 - DELIVERIES OF PETROLEUM FUELS FOR CONSUMPTION IN CANADA, CALENDAR YEAR 1946 (As reported by

	Unit of measure	Maritimes	Quebec	Ontario
(a) FUEL OIL: All grades to 39° A.P.I., or 0.8299, and comprising residuals, bunkers, furnace grades (heavy, medium and light), and diesel grades -				
For heating homes, residences and buildings, or for ranges, stoves, heaters, etc.	Imp.gal.	14,117,732	78,258,685	68,680,241
For consumption under refinery boilers	Imp.gal.	15,055,607	34,834,160	84,999,957
For electric light plants	Imp.gal.	1,064,382	1,354,822	138,182
For manufacturing purposes, as fuel	Imp.gal.	8,982,762	74,843,127	152,656,693
For manufacturing purposes, as material	Imp.gal.	3,202,105	8,940,787	13,376,608
For tractor and other motor vehicles, as fuel..	Imp.gal.	516,316	5,650,507	9,201,276
For locomotive fuel, by railways and others ...	Imp.gal.	490,377	4,354,313	570,636
For bunkering, including suppliers' tankers ...	Imp.gal.	79,364,097	51,094,703	13,636,940
For miscellaneous use	Imp.gal.	844,277	...	558,163
Total Deliveries Heavy Fuel Oil, All Uses ...	Imp.gal.	123,637,655	259,331,104	343,818,696
Furnace burners and boilers supplied with fuel.	Number	8,333	36,239	52,892
(b) DISTILLATES AND LIGHT FUEL OILS: All grades from and over 39° A.P.I. and comprising stove, range, small burner and heater oil, and light distillates -				
For heating homes, residences and buildings, or for ranges, stoves, heaters, etc.	Imp.gal.	14,401,544	60,226,727	19,078,603
For electric light plants	Imp.gal.	38,215	...	...
For manufacturing purposes, as fuel	Imp.gal.	...	174,395	260,012
For manufacturing purposes, as material	Imp.gal.	...	138,057	200,683
For tractor fuel	Imp.gal.	19,176	1,230,154	3,990,265
For dinkeys, jiggers, speeders, etc.	Imp.gal.	...	581	...
For boats and dredges, as fuel	Imp.gal.	...	...	3,779
For miscellaneous use	Imp.gal.	80,794	2,599,579	216,161
Total Deliveries Distillates and Light Fuel Oils, All Uses	Imp.gal.	14,539,729	64,369,493	23,749,503
Total Deliveries All Fuel Oils and Distillates.	Imp.gal.	138,177,384	323,700,597	367,568,199
Portion of diesel oil in total	Imp.gal.	17,497,961	19,610,623	18,438,184
(c) KEROSENE AND ILLUMINATING OIL (Refined Oil Ranging from 42° to 47° A.P.I., or 0.8155 to 0.7927--Kerosene Blended to Lower Gravity Fuels Omitted -				
For coal oil stoves and lamps	Imp.gal.	2,836,232	5,211,513	8,986,983
For lanterns, lamps and signals for railways...	Imp.gal.	186,622	234,082	327,998
For electric light plants	Imp.gal.	...	...	...
For manufacturing purposes, as fuel	Imp.gal.	79,209	116,477	7,671
For manufacturing purposes, as material	Imp.gal.	28,621	480,620	195,094
For tractor fuel	Imp.gal.	...	311,355	783,785
Total Deliveries of Kerosene, All Uses ...	Imp.gal.	3,130,684	6,354,047	10,301,531
(d) PETROLEUM COKE -				
For domestic and industrial heating	Short tons	374	337	22,091
For manufacturing purposes, as material	Short tons	...	122,279	118,927
Total Deliveries of Petroleum Coke	Short tons	374	122,616	141,018

Amounts recorded for heating, power, material, and for motor vehicles were for actual consumption within the provinces. Industrial gallonage excludes oil consumed under refinery boilers, which is shown separately. The volume of deliveries in each province is largely determined by the number of heavy industries located therein. Important consumers are mills and plants for production and tempering of steel, structural steel shapes and steel goods; smelters and refineries for recovery of base and precious metals; heavy chemical, sugar refining, liquor distilling and canning industries; also electric power plants. In general, farm machinery, bulldozers and construction equipment supplies are included under tractors and other motor vehicles.

Refiners and Distributors)

Manitoba	Saskatchewan	Alberta and Northwest Territories	British Columbia and Yukon	C A N A D A			
				1946		1945	
				Quantity	% of total fuel oil and distillate	Quantity	% of total fuel oil and distillate
2,078,511	4,512,229	284,879	37,337,731	205,270,008	16.5	96,499,188	10.3
...	14,299,093	6,639,439	11,502,160	167,330,416	13.5	-- Not Shown --	--
249,975	14,716,581	828,897	8,094,658	26,447,497	2.1	18,920,003	2.0
6,792,936	5,328,487	3,797,452	41,568,380	293,969,837	23.6	311,230,175	33.4
409,378	533,251	1,881,750	947,422	29,291,311	2.3	11,192,965	1.2
1,535,644	3,780,842	5,922,951	11,413,783	38,021,319	3.0	28,957,120	3.1
926,153	1,170,415	52,995,771	29,962,709	90,470,374	7.3	76,413,010	8.2
89,678	...	1,271,469	74,713,882	220,170,769	17.7	301,539,142	32.3
33,221	...	547,244	1,345,189	3,328,094	0.3	...	...
12,115,496	44,340,898	74,169,852	216,885,924	1,074,299,625	86.3	844,751,603	90.5
2,592	2,729	316	11,854	114,955	...	45,890	...
2,483,871	2,222,007	4,020,474	15,282,395	117,715,621	9.6	47,337,659	5.1
2,237	4,753	...	1,872	47,077	...	825	...
...	...	...	...	434,407	...	1,262,062	0.1
...	...	...	179	338,919	...	332,474	...
16,079,388	17,439,965	8,957,089	239,221	47,955,258	3.9	39,559,370	4.3
...	...	...	4,990	5,571	...	3,728	...
8,080	...	...	53,153	65,012	...	900	...
...	...	1,980	13,617	2,912,131	0.2	...	...
18,573,576	19,666,725	12,979,543	15,595,427	169,473,996	13.7	88,497,018	9.5
30,689,072	64,007,623	87,149,395	232,481,351	1,243,773,621	100.0	933,248,621	100.0
4,897,765	18,621,729	11,174,449	33,833,637	124,074,334	9.9	138,749,894	14.8
1,554,282	3,083,121	2,895,610	1,388,841	25,956,582	82.9	21,106,996	73.2
425,725	(Included in Manitoba)	...	80,120	1,254,547	4.0	1,222,832	4.2
...	17,952	...	...	17,952	...	43,697	0.2
45,378	7,869	33,845	7,864	298,313	0.9	4,544,297	15.8
...	17,687	24,471	39,961	786,454	2.6	1,196,052	4.1
397,710	397,962	1,098,383	144	2,989,339	9.6	707,165	2.5
2,423,095	3,524,591	4,052,309	1,516,930	31,303,187	100.0	28,821,039	100.0
...	1,390	1	...	24,193	9.0	59,855	24.0
55	...	...	1,170	242,431	91.0	189,169	76.0
55	1,390	1	1,170	266,624	100.0	249,024	100.0

Specific consumption during the year by Railways operating in Canada, for bunkering, for use under shops' boilers, in forges, etc., is distributed under the above categories. Railway requirements are accepted at delivery points within the provinces, but are moved and consumed as required. Fuel for bunkering was supplied from fueling depots in provinces, irrespective of ships' destinations and ownership.

Table 2 - INVENTORIES OF PETROLEUM FUELS AS AT DECEMBER 31, 1946 (Suppliers - Refiners and Distributors)

	Unit of measure	Maritimes	Quebec	Ontario
Fuel Oils--All grades to 39° A.P.I. -				
Suppliers	Imp.gal.	28,380,363	61,138,644	77,375,150
Consumers	Imp.gal.	743,982	13,581,835	33,159,535
Total to 39° A.P.I.	Imp.gal.	29,124,345	74,720,479	110,534,685
Fuel Oils--All grades, 39° A.P.I. and above				
Suppliers	Imp.gal.	1,668,520	12,577,660	3,897,962
Consumers	Imp.gal.	1,287	54,333	50,986
Total 39° A.P.I. and Above	Imp.gal.	1,669,807	12,631,993	3,948,948
Kerosene, Refined -				
Suppliers	Imp.gal.	4,928,464	1,556,760	3,606,635
Consumers	Imp.gal.	1,060	27,296	49,998
Total Kerosene	Imp.gal.	4,929,524	1,584,056	3,656,633
Petroleum Coke -				
Suppliers	Short tons	...	46	2,394
Consumers	Short tons	...	71,563	41,827
Total Petroleum Coke	Short tons	...	71,609	44,221

Table 3 - DELIVERIES OF FUEL OIL FOR DOMESTIC HEATING, IN PRINCIPAL CITIES, 1945 and 1946

Principal Cities	Furnaces and Boilers Supplied with Fuel		Furnace and Boiler Fuel	
	1945	1946	1945	1946
	No.	No.	Imp.gal.	Imp.gal.
Maritime Provinces -				
Charlottetown and Saint John	737	1,495	2,143,065	2,919,565
Halifax	1,042	2,592	2,825,459	3,707,672
Quebec -				
Montreal	9,275	22,829	28,614,489	56,216,066
Quebec	1,341	4,809	3,196,248	6,834,324
Sherbrooke	418	1,049	823,725	1,689,863
Three Rivers	353	742	672,551	1,140,534
Ontario -				
Hamilton	923	3,058	2,198,841	3,521,994
London	796	2,386	1,356,376	2,622,275
Ottawa	2,971	5,037	4,772,514	6,728,847
Toronto	10,693	27,038	18,390,014	36,515,637
Windsor	85	426	113,498	540,375
Prairie Provinces -				
Winnipeg and Brandon	523	2,422	749,677	1,991,802
*Regina and Saskatoon	503	1,567	853,904	2,583,925
Edmonton and Calgary .....	...	217	...	185,610
British Columbia -				
Vancouver and New Westminster	3,966	9,495	9,787,426	31,655,593
Victoria	957	1,852	1,765,923	3,052,719
Total for Above Cities: Domestic Heating Only	34,583	87,014	78,263,800	161,906,851
Total for Canada: Domestic Heating Only	45,890	114,955	96,499,188	205,270,008
Total for Canada: All Purposes .....	...	...	844,751,603	1,074,299,625

* Regina only for 1946.

Note: Suburban districts are included in above figures. For example, Montreal includes Outremont, Westmount, Verdun, Montreal North, East and West, Ville St. Pierre, Pointe aux Trembles, Pointe Claire, St. Laurent and Lachine.

Petroleum Fuels

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Consumers - Industrial Users)

Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	C A N A D A	
				1 9 4 6	1 9 4 5
1,393,484	6,239,346	6,624,480	21,215,877	202,367,344	189,988,353
185,367	368,071	84,044	4,295,803	52,418,637	44,047,187
1,578,851	6,607,417	6,708,524	25,511,680	254,785,981	234,035,540
2,015,497	2,560,882	4,323,386	2,566,556	29,610,463	16,574,306
535	430	632	190,433	298,636	128,621
2,016,032	2,561,312	4,324,018	2,756,989	29,909,099	16,702,927
388,694	893,635	1,174,805	328,876	12,877,869	15,239,613
306	837	90	2,237	81,824	81,952
389,000	894,472	1,174,895	331,113	12,959,693	15,321,565
...	328	...	...	2,768	13,623
1	...	...	367	113,758	56,796
1	328	...	367	116,526	70,419

Stove and Range Fuel		Total for Domestic Heating			
1 9 4 5	1 9 4 6	1 9 4 5		1 9 4 6	
Imp.gal.	Imp.gal.	Imp.gal.	Per cent (a)	Imp.gal.	Per cent (a)
1,851,386	2,494,251	3,994,451	79.7	5,413,816	42.9
2,860,885	2,947,002	5,686,344	64.8	6,654,674	41.8
12,448,995	30,232,434	41,063,484	65.9	86,448,500	62.4
863,661	4,128,953	4,059,909	6.5	10,963,277	7.9
619,250	2,419,324	1,442,975	2.3	4,109,187	2.9
239,483	2,147,106	912,034	1.4	3,287,640	2.3
45,750	51,296	2,244,591	5.2	3,573,290	4.1
719,189	786,243	2,075,565	4.8	3,408,518	3.9
128,815	197,758	4,901,329	11.4	6,926,605	8.0
392,857	7,580,649	18,782,871	44.0	44,096,336	50.2
29,024	54,000	142,512	0.3	594,375	0.6
856	1,034,452	750,533	60.9	3,026,254	66.3
299,000	217,033	1,152,904	60.7	2,800,958	41.5
...	415,603	...	...	601,213	13.9
5,747,763	8,555,243	15,535,189	69.6	40,210,836	76.3
1,417,919	2,437,648	3,183,742	14.2	5,490,367	10.4
27,664,833	65,698,995	105,928,433	73.6(b)	227,605,846	70.4(b)
47,337,659	117,715,621	143,836,847	15.4(c)	322,985,629	26.1(c)
88,497,018	169,473,996	933,248,621	100.0	1,243,773,621	100.0

(a) Per cent of total for provinces in which cities are located, except where noted.

(b) Per cent of Canadian Domestic Heating Total.

(c) Per cent of total deliveries for all categories.

Table 4 - CONSUMPTION OF PETROLEUM FUELS BY RAILWAYS (STEAM AND ELECTRIC), 1946 (As Reported by Railways)

Province	Heating hotels, cars, stations and buildings	As fuel under shops' boilers, forges	Locomotives	Steamships, Boats (bunkering)	Electric light plants	Various other uses (a)	Total consumption of fuel oil	Total consumption of kerosene (b)
(Thousands of Imperial Gallons)								
Maritimes .....	...	426	490	4,289	...	13	5,218	187
Quebec	1,203	2,246	630	1	...	346(c)	4,426	234
Ontario	564	2,828	576	720	36	115	4,839	328
Prairie Provinces	...	1,047	44,262	...	23	491(c)	45,823	426
British Columbia and Yukon	1,283	1,469	56,682(d)	20,468	7,961	122(c)	87,985	80
CANADA	3,050	8,016	102,640	25,478	8,020	1,087	148,291	1,255

(a) Fuel oil for miscellaneous use excludes gas oil used in four gas plants for production of manufactured gas.

(b) Kerosene used is for signals, lights and lanterns, and excludes amounts used for cleaning.

(c) Excludes amount used in gas manufacture.

(d) Includes 11,175,074 gallons of Vermilion crude.

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