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CANADA

DOMINION BUREAU OF STATISTICS

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THE PETROLEUM REFINING INDUSTRY

IN CANADA IN 1918

Advance Chapter of

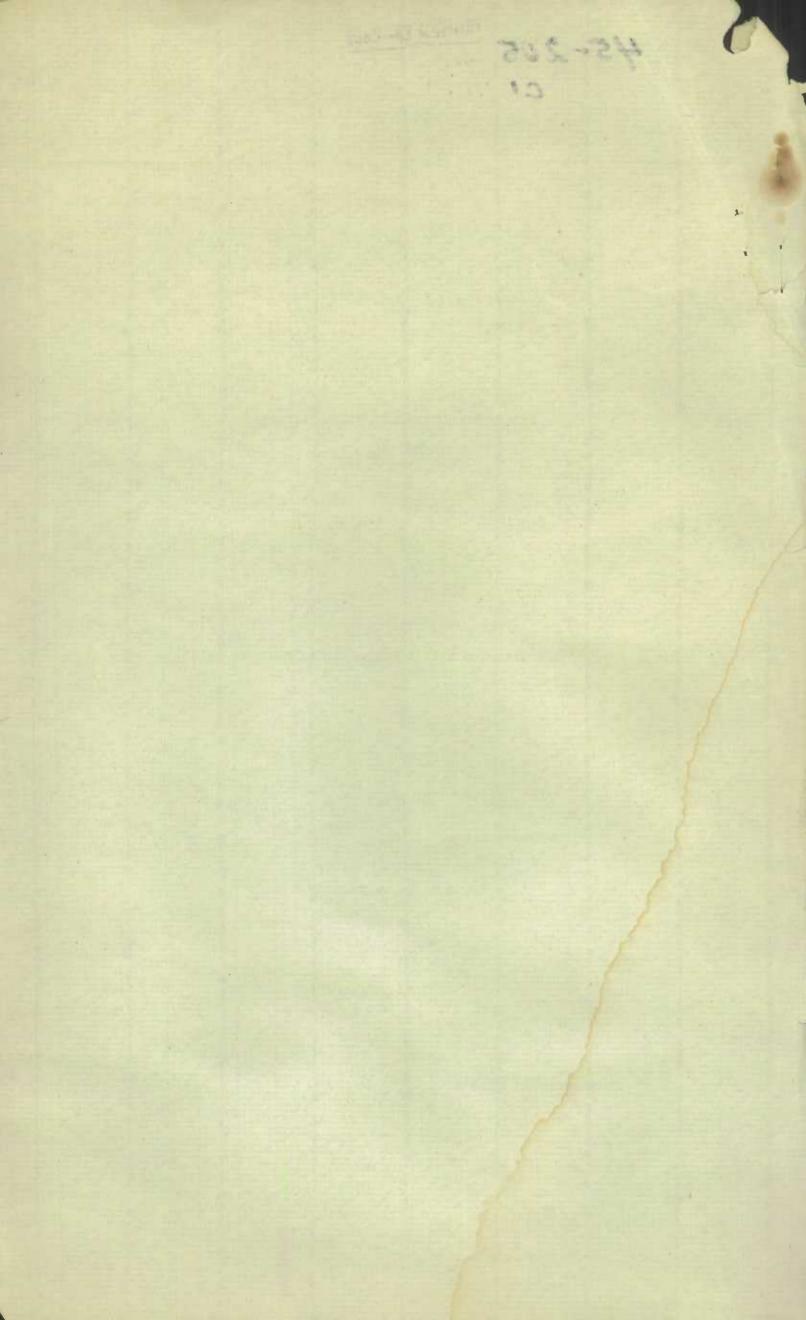
"Chemicals and Allied Products in Canada in 1918"

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THE PETROLEUM REFINING INDUSTRY IN CANADA IN 1918

Ten petroleum refineries were operated in Canada in 1918. Three of these were located in Ontario; three in Alberta; and one in each of the provinces of Nova Scotia, Quebec, Saskatchewan and British Columbia.

The total capital employed in these ten plants at the end of the year amounted to \$35,745,410, of which \$23,535,257 represented land, buildings, fixtures, machinery and tools. Cash, trading and operating accounts, and bills receivable amounted to \$407,408, while materials on hand, stocks in process, finished products, fuel and miscellaneous supplies on hand were valued at \$11,802,745.

EMPLOYEES, SALARIES AND WAGES

The average number of wage-earners engaged in these refineries was 2,938. Wages paid allowed a per capita payment of \$1,175, or a total sum of \$3,451,642. The salaried employees numbered 272. The average payment to these was \$1,366, the total sum having been \$371,676, of which \$91,459 went to officers, superintendents and managers.

The following table shows the distribution of the working staff on December 15, 1918. The works sub-total (3060) in the table is somewhat larger than the average number of wage-earners (2938) mentioned above, due to the fact that the number on the pay-roll increased to some extent in December, the month in which distribution was made.

TABLE I-DISTRIBUTION OF NORMAL WORKING STAFF

SALARIED EMPLOYEES:	Male	1918 Female
Officers, superintendents and managers Clerks, stenographers, salesmen and other salaried employees	.789	55 56
WAGE-EARNERS, receiving per week:		•
Less than \$10 \$10, but less than \$15 \$15, but less than \$20 \$20, but less than \$25 \$25. and an an and over and over	. 76 .848 .788	11 6 1 ••••
GRAND TOTAL	3258	74

MILL

The total cost of fuel used in the refineries, exclusive of any supplied to employees, was \$3,242,796. Of this sum, the larger portion, or \$1,721,642, was given as the value of oil and gasoline used; \$1,425,850 for 247,423 tons of bituminous coal of various grades; and the balance or \$95,304 for petroleum coke and natural gas.

The following table shows the source, kind, quantity and cost at the works of all the fuel used during the year.

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Unit of Measure	
Bituminous coal, slack. tons lump " " " run of mine " Gas (natural)	16, 725 \$72,252 211,127 \$1,222,474 8,088 \$ 56,616 1,214 \$ 9,402 10,269 \$ 65,106
	\$103,895\$1,344,196
Kind	Unit of Assigned Measure Quantity Value
Petroleum Coke, produced chiefly from imported crude oil	Short tons 19,880 \$ 73,063
Gasoline produced chiefly from imported crude oil Oil (fuel) produced from imported	
crude oil. (chiefly)	

MATERIALS USED

According to reports from the refineries 262,641,149 gallons of crude oil was received at the works of which 12,258,184 gallons was from Canadian wells, and 250,382,965 gallons, imported. The total cost of oil received at the works was \$23,708,658, of which \$22,789,762 was pa id for the imported oil and \$918,896 for the product of Canadian wells.

The consumption of oil reported showed 261,742,274 gallons of crude oil as having been used at the works. Of the total quantity 10,050,783 gallons was from Canadian wells and 251,691,491 gallons from the United States. The imported oil cost \$23,890,862, and the product of Canadian wells, \$882,230.

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TABLE 3-MATERIALS USED

KIND	Unit of Measure	Quantity	
Crude oil, product of Canadian well " imported	. lbs.	10,050,783 251,6911491 38,224,856 1,993,251 97,319 52,302	\$ 882,230 21,890,862 408,482 45,782 11,886 2,234 843,942 369,157
TOTAL			.\$24,454,575

PRODUCTS

The total production, according to reports to the Bureau of Statistics, had a selling value at the refineries of \$37,866,907. Of this sum, \$19,247,402, or 50.8% was the value of 72,169,916 gallons of gasoline and motor oils; \$7,130,301, or 18.8% was the value of 56,220,066 gallons of illuminating oils, and \$6,629,980, or 17.5%, of 84,784,278 gallons of fuel and gas oil and tar.

The following table shows the total production of the various commodities, with their selling values at the refineries:

KIND	Unit of Measure	Quantity	Selling Value at the Works
Gasoline and motor oils Benzene, benzoline and oth petroleum spirits Illuminating oils Wax and candles Wax and gas oil and tar. Grease All other products, including asphalt and petroleum coke	ner ""lbsGals.	72,169,916 1,530,867 56,220,066 14,401,703 13,490,528 84,784,278 7,435,605	\$ 19,247,402 384,901 7,130,301 2,571,367 1,136,311 6,629,980 525,274
POTAL.			

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MISCELLANEOUS EXPENSES

The miscellaneous expenditures chargeable against production and sales a mounted to \$2,129,825 during the year. Of this sum \$859,197 or 43.4% was paid for repairs to buildings and machinery.

The following table gives the miscellaneous expenditures for the year:

TABLE 5-MISCELLANEOUS EXPENDITURES

Speller tillus copys cross copis speller tillus copys copis copys	
Rent of offices, works and machinery	11,700
Insurance (premium for year only)	14,837 36,574
Taxes-(Provincial and Municipal	25,073 177,2 8 4
Royalties, use of patents, etc	3,755
Repairs to buildings and ma chinery	17,078 859,197
Repairs to buildings and ma chinery	
materials used, salaries and wages)	,970,776
90	,129,825

IMPORTS AND EXPORTS

The total value of imports of petroleum and petroleum products in 1918 was \$13,127,178, of which \$13,359,636 was paid for 229,010,561 gallons of crude oil imported by oil refiners to be refined in their own factories.

Exports of crude coal oil or kerosene in 1918 were 270,302 gallons valued at \$28,415, and of refined oil \$1,946,967 gallons valued at \$206,675. There was also an export of naphtha or gasoline of 91,229 gallons valued at \$28,778.

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