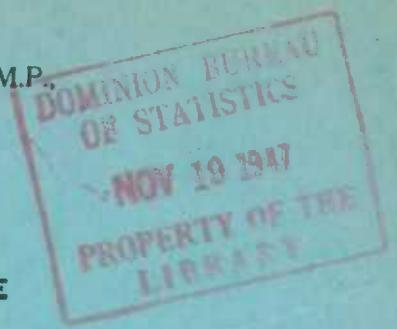


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
TRANSPORTATION & PUBLIC UTILITIES BRANCH

CENSUS OF INDUSTRY

1945

CENTRAL ELECTRIC STATIONS
IN CANADA



OTTAWA
1947

Price 25 cents

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DOMINION BUREAU OF STATISTICS
TRANSPORTATION AND PUBLIC UTILITIES BRANCH
OTTAWA

Dominion Statistician, HERBERT MARSHALL

Chief, Transportation and Public Utilities Branch, G.S.Wrong

CENTRAL ELECTRIC STATION INDUSTRY, 1945

20-1900

For the purpose of the census, central electric stations are defined as companies, municipalities, or individuals selling or distributing electric energy, whether generated by themselves or purchased for resale. The stations are divided into two classes according to ownership, viz., (a) commercial, those operated by companies or individuals and (b) municipal, those operated by municipal, provincial or federal governments. The stations are also divided according to operation into (a) generating, those stations generating power which they sell (many of them also purchase power to supplement their own output), and (b) non-generating, those stations which purchase all the power they sell. In this last class there were 19 stations which were holding generating equipment classed as auxiliary plant equipment. Fifteen of them purchased all their electric energy and the remaining four generated only 532,000 kilowatt hours. This explains the rather anomalous item in table 14 showing the output of non-generating stations.

Included in these statistics are those of a few stations engaged primarily in other industries, such as mining, manufacturing of pulp and paper, etc., which sell surplus power. For such plants the statistics pertaining to the central electric station phase of the industry have been segregated as far as possible.

Stations are allowed to file returns for their fiscal years which are not calendar years in all cases. Consequently the output as recorded in this annual report will not coincide with the outputs of the twelve calendar months shown in the monthly reports. The various data, however, in the annual reports are for comparable periods.

Primary power produced for use in Canada (including all line losses) decreased from 35,284,444,000 kilowatt hours in 1944 to 30,853,713,000 kilowatt hours, or by 12.6 per cent, but the consumption of secondary power increased from 2,113,848,000 to 6,645,824,000 kilowatt hours.

Secondary power is off peak and surplus power delivered as it is available. It is subject to interruption or variation daily and seasonally, and consequently is sold at relatively low rates. The stations endeavour to keep their customers advised as much in advance as possible of interruptions or reductions, which are due to variations in water supply and in the demands of customers for primary power.

Primary power, also known in the industry as firm power, is power delivered as and when demanded or required by the customer. Stations must be ready to deliver power to primary power customers, up to the rate contracted for, whenever the customer requires it, and consequently must have sufficient capacity to take care of all such demands. In practice all customers on a system do not require their maximum deliveries at the same time and generally there is a considerable difference hourly and daily in the rate at which the power plant must operate to produce the power as required. Most of the secondary power is sold to pulp and paper plants for the production of low pressure steam where short interruptions of the electric energy for the boilers can be tolerated without much inconvenience.

According to monthly reports the consumption of primary power continued to decline throughout 1945 and up to and including August 1946, but from then on increases were recorded. Deliveries of secondary power were much heavier in 1945 than in 1944 and still heavier in 1946, but they began to decline in 1947 and at the end of June were 18 per cent less than in 1946 and only slightly below the 1945 deliveries. The pulp and paper industry again became the largest user of electric energy, accounting for 22.6 per cent of the total production. The aluminium industry, which is included in the metal, smelting and refining class, was also a large consumer; it takes approximately ten kilowatt hours of energy to produce one pound of aluminium.

The production of electric energy for secondary use each month is shown below.

SECONDARY POWER FOR USE IN CANADA

(Thousands of Kilowatt Hours)

Month	1942	1943	1944	1945
January	263,203	129,985	132,138	545,019
February	208,221	126,124	146,975	506,380
March	264,013	148,811	167,028	618,420
April	238,672	189,265	162,288	674,236
May	291,739	263,430	319,574	623,467
June	249,143	239,342	263,938	560,819
July	141,722	199,275	126,336	491,774
August	102,224	184,787	209,721	481,841
September	94,586	181,952	201,485	450,404
October	130,769	136,424	267,605	545,700
November	147,441	158,724	347,940	574,349
December	107,380	155,729	398,093	573,415
TOTAL	2,239,113	2,113,848	2,743,121	6,645,824

For the following table data for the six groups were taken from the industrial census reports of the industries and consumption for other industries was computed by deduction, and consequently is only approximately correct.

CONSUMPTION OF ELECTRIC ENERGY, 1945

(Thousands of Kilowatt Hours)

Industries	Central Electric Station Power Purchased				Power Generated by the Industries for own use
	Power and Light	Other Purposes	Total Central Electric Stn. Power	P.C. of Total Production	
Pulp and Paper	5,225,343	3,862,446	9,087,789	22.6	1,766,582
Ferro-Alloys	22,487	859,784	882,271	2.2	-
Abrasives	21,023	690,904	711,927	1.8	-
Electro-Chemicals	526,015	784,687	1,310,702	3.3	46,085
Metal, Smelting & Refining	931,945	5,756,410	6,788,355	16.9	68,177
Steel Furnaces	84,659	249,242	333,901	.8	55,829
TOTAL	6,811,472	12,203,473	19,114,945	47.6	1,936,673
Other Industries			9,608,977	23.9	
Domestic Service (Residential)			3,365,498	8.4	
Commercial Lighting			1,613,733	4.0	
Street Lighting			226,218	.6	
Free Service			64,327	.2	
Exports to U.S.A. (Net)			2,646,435	6.6	
Losses			3,505,837	8.7	
TOTAL OUTPUT OF CENTRAL ELECTRIC STATIONS) Plus Imports (15,916 kw.hrs.))			40,145,970	100.0	

Electricity is exported from Canada only by licence granted by the Electricity and Gas Inspection Services of the Department of Trade and Commerce, and the same branch of the Department has jurisdiction over the export duty which has been imposed since April 1, 1925. During the calendar year ended December 31, 1945, the export duty amounted to \$674,457.24. The rate is three one-hundredths of one cent per kilowatt hour on electric energy exported.

Below is a table showing the quantities of power exported for the calendar year 1945. The data for this table were compiled from the annual reports of the Director of the Electricity and Gas Inspection Services.

KILOWATT HOURS EXPORTED TO THE UNITED STATES

(Calendar Years 1944 and 1945)

Company	Exported	Exported
	1944	1945
	Kw. Hrs.	Kw. Hrs.
Hydro-Electric Power Commission of Ontario	595,280,000	394,245,000
" " " " " (surplus)- Niagara	834,114,105	954,911,061
" " " " " - Cornwall	274,102,880	165,819,000
Cedar Rapids Manufacturing and Power Co., Ltd.	627,047,466	618,842,478
Canadian Niagara Power Company, Ltd.	312,033,481	322,722,441
" " " " " (surplus)	64,931,100	99,409,843
Ontario and Minnesota Power Company	38,094,000	38,365,000
Maine and New Brunswick Electric Power Company	29,195,321	40,384,249
British Columbia Electric Railway Company, Ltd.	248,040	273,050
Northport Power and Light Company	16,444	15,206
Southern Canada Power Company	2,261,256	2,462,695
Canadian Cottons, Ltd.	1,164,000	2,708,400
Northern British Columbia Power Company	17,290	12,170
Fraser Companies, Ltd.	5,293,000	4,574,000
Detroit and Windsor Subway Company	292,200	291,800
Manitoba Power Commission	1,220,133	1,398,840
 TOTAL	 2,585,310,716	 2,646,435,233

Of the total output of 40,130,054 kilowatt hours, 39,131,020,000 kilowatt hours, or over 97 per cent, was produced by water power, whereas only 909,387,000 kilowatt hours were produced by plants using only thermal engines and 89,649,000 kilowatt hours were produced by thermal auxiliary equipment in hydraulic plants and in non-generating plants.

Total hydraulic installations in all industries in Canada at the close of 1945, including active and inactive plants, as compiled by the Dominion Water and Power Bureau was 10,283,610 horse power. The available and developed water power in each province is shown below.

POTENTIAL AND DEVELOPED WATER POWER IN CANADA

Province	Available 24 hour Power at 80% Efficiency		Turbine Installation December 31	
	At Ordinary Minimum Flow	At Ordinary Six Months Flow	1945	1946
	H. P.	H. P.	H. P.	H. P.
Prince Edward Island	3,000	5,300	2,617	2,617
Nova Scotia	20,800	128,300	133,384	133,384
New Brunswick	68,600	169,100	133,347	133,347
Quebec	8,459,000	13,064,000	5,848,572	5,848,572
Ontario	5,407,200	7,261,400	2,673,290	2,679,740
Manitoba	3,309,000	5,344,500	422,825	446,825
Saskatchewan	542,000	1,082,000	90,835	90,835
Alberta	507,800	1,258,000	94,997	93,060
British Columbia ...	7,023,000	10,998,000	864,024	864,024
Yukon and Northwest Territories	382,500	813,500	19,719	19,719
CANADA	25,722,900	40,124,300	10,283,610	10,312,123

The figures in columns 2 and 3 are based only upon rapids, falls and power sites of which the actual drop or head possible of concentration is definitely known or reasonably well established. Many water-powers of greater or less capacity from coast to coast have not yet been recorded which will increase the totals. With the construction of storage basins and other regulating works these potential power figures will be further increased. It is common practice, and feasible in most developments, to install equipment with capacity considerably greater than and theoretical continuous power of the water fall and on this basis it is estimated that the maximum installation capacity of the recorded water-powers of Canada is 52,000,000 horse power.

TABLE 1 - COMPARATIVE SUMMARY, 1936 - 1945

For the first time since 1933 the revenues of the industry showed a decline from those of the previous year. The reduction was all from power sales, revenues from domestic or residential uses increasing from \$53,311,353 in 1944 to \$55,735,696, from commercial lighting from \$30,505,456 to \$32,911,620 and from street lighting from \$4,573,704 to \$5,029,181. Revenue from small power declined from \$11,546,203 to \$10,947,854 and from large power customers from \$115,309,675 to \$110,481,122.

Expenses, which include only four items: wages, power purchased, fuel and taxes, increased from \$131,289,947 to \$135,104,091. Wages increased from \$36,945,296 to \$39,521,365, taxes from \$17,861,743 to \$19,125,746 and cost of power (payments for power interchanged between stations) from \$70,994,425 to \$71,358,219, but fuel costs declined from \$5,488,483 to \$5,098,761.

Pole line mileage continued to increase to 83,178 miles, the increase from 71,575 to 74,477 miles of wooden poles accounting for most of the total increase. The number of customers continued to grow, reaching 2,333,230 in 1945 which was almost double the number in 1925. Domestic or residential service customers accounted for 1,987,360 of the total. These include 130,078 farm service customers, which increased 11.7 per cent or from 116,609 during the year as compared with an increase in other domestic service customers of 3.8 per cent.

Total production of the stations amounted to 40,130,054,000 kilowatt hours, of which 2,646,435,000 kilowatt hours was exported to the United States. Through an exchange arrangement with the United States Boulder Dam plant British Columbia stations imported 15,190,000 kilowatt hours during the year. Consumption for domestic service, commercial light and street lighting all showed increases. Losses also showed an increase. These are computed by deducting the sales from the output of the power plants, and consequently absorb any errors in understating sales or overstating production. The total capacity of primary equipment showed a slight decline from 9,713,791 to 9,666,947 horse power. Primary here means water wheels and turbines and steam and internal combustion engines used to operate generators which are classed as secondary power equipment.

TABLE 2-DOMESTIC SERVICE, 1936 - 1945

This table shows the number of customers, the consumption, revenue and averages computed from these for domestic service including farm service for 1945 back to 1936. In all provinces the number of customers increased during this period, the percentages ranging from 25 per cent in Manitoba to 61 per cent in New Brunswick. The rate of consumption also increased in all provinces, Prince Edward Island leading here with an increase of 156 per cent. All of the provinces showed increased revenues from domestic service. The average annual consumption per customer varied widely, Manitoba leading with an average in 1945 of 4,399 kw. hrs. per customer and New Brunswick showing the smallest consumption at 739 kw. hrs. There have been relatively small changes in the average annual bills in each province even where the consumptions have shown fairly large increases and the bills for Nova Scotia, New Brunswick, Ontario and British Columbia have been remarkably close together throughout these ten years despite the wide variations in unit costs. The bills do not include federal, provincial or municipal taxes on electricity purchased. Domestic services are further discussed under Table 5 and at the end of this report.

TABLE 3 - POWER PLANTS

The generating stations are the individual power plants of the central electric stations. Each building housing power machinery is counted as a generating station. The commercial organizations are companies and individuals selling electric energy and the municipalities include urban and rural municipalities, provincial commissions, etc., selling electric energy. Those generating power operate from one to several power plants each, the largest system being the Ontario Hydro-Electric Power Commission which operates 51 hydraulic plants and owns one steam auxiliary plant. The auxiliary plants are thermal power equipment belonging to hydraulic systems or non-generating systems and are not included above as generating stations.

TABLE 4 - CAPITAL - Not collected for 1944 and 1945

TABLE 5 - REVENUES

Central electric stations are required to make a division of customers, consumption and revenue under the following headings: (1) farm service, (2) domestic service, which includes lighting and all other uses in residences, (3) commercial light, (4) power, small, 50 kw. and under, (5) power, large, over 50 kw., (6) sales to distributing companies, and (7) street lighting, also the quantity of electricity supplied without charge to public buildings, etc. The revenue is the gross revenue less cost of power, or is the revenue received from the consumers, except where power is purchased by a station in one province from a station in another province, the cost of such power is not deducted in computing provincial data, but is deducted in computing the Dominion totals. In reports prior to 1932 this exception was not made and consequently the revenues of Ontario, New Brunswick and Alberta, which purchased power from other provinces, were lower than they should have been.

The average revenues per kilowatt hour sold are affected by many factors and are not always indicative of the relative costs for similar services. The averages for domestic services and for commercial lighting are for more or less identical services for each station, but even here the use of electric stoves, flat rate water heaters, the source of supply, the firm power load, the market for off-peak and surplus power, and the cost of generation, transmission, and distribution all affect the rates. Domestic service data are discussed further at the end of the report. As might be expected, Quebec stations with their enormous sales to pulp and paper mills, aluminium plants, wholesale to Ontario, etc., showed a smaller proportion of revenue from domestic service than any other stations, although greater in dollars than those in other provinces except Ontario. In computing the average total revenue per kilowatt hour all line losses were included, but for domestic service and farm services, for commercial light, etc., line losses were not included, the consumptions for these services being measured at the consumers' meters. The average revenue per kilowatt hour consumed for each province is the revenue received from ultimate consumers within each province plus revenue received for power exported from the province, divided by the total kilowatt hours so sold including all line losses. The average revenues per kilowatt hour for domestic service are affected by the consumption per customer and by the relative quantities used for lighting, cooking and water heaters; often different rates apply to these different services. In most municipalities when the consumption increases the average cost per kilowatt hour to the consumer decreases. Also, where flat rates apply to water heaters the average cost per kilowatt hour for all domestic services is reduced and as the number of flat rate heaters is increased the average for the municipality or province is decreased if not offset by increases in rates elsewhere. The average revenue of 1.66 cents per kilowatt hour for all domestic service, or 1.61 cents with farm services excluded, compares with an average of 3.41 cents in the United States. The average revenues per horse power and per kilovolt ampere are affected by the classes of service and their relative importance in each province. Quebec stations sell large quantities of power to Ontario distributors. The Quebec stations are credited with the wholesale revenue and the Ontario stations with the retail revenue from this power. In computing the averages for Ontario stations the equipment capacities shown in tables 12 and 13 were increased one horse power for each 4,576 kilowatt hours imported from Quebec stations and one kilovolt ampere for each 6,136 kilowatt hours imported. This is only an estimate of the equipment and was based on the Ontario Hydro-Electric Power Commission's contracts with Quebec companies which call for 88 kilowatt hours per week for each horse power purchased. It is quite probable this output is a little too high for all the power imported from Quebec, and consequently the divisors are too small and the average revenues are too high. It is not likely the errors are large and the adjusted averages are more nearly comparable with the averages for the other provinces than the unadjusted averages as shown in reports previous to 1936. The imports into New Brunswick and Alberta are relatively so small that their effects on the averages would be negligible.

The Federal sales tax on domestic service bills has been treated by practically all central electric stations as a tax on the consumer and was not included in either revenues or expenses. The Act placed the tax on the producer or importer, but a subsequent Order in Council

allowed the producer or importer to increase the charge to the consumer by the amount of the tax irrespective of any agreements, charters, etc. Only a few stations absorbed this tax, most of them passed it on to the consumer. Also provincial and municipal taxes on domestic bills, where imposed, have not been included as either revenue or expenses.

TABLE 6 - EXPENSES

These data include only the four items, (1) salaries and wages, (2) fuel, (3) taxes and (4) cost of power. The last is an inter-industry expense and could very well be omitted from the expenses of the industry as a whole. It shows, however, the extent of purchases of power by the different groups of stations. Cost of power includes the cost to municipalities receiving their supply from provincial commissions as well as interchange of power between generating stations and between generating and other non-generating stations. As explained above, the sales taxes on domestic bills have not been included in the taxes shown in this table.

Following is a table detailing the taxes reported by commercial and municipal stations. As stated in the foregoing, under "Revenues" these taxes do not include the federal, provincial and municipal taxes on sales of electricity for domestic use except in the few cases where the station absorbed the tax. They also do not include water rentals. The federal unemployment tax did not apply to all utility employees until September 1, 1943, but all stations apparently did not include the employer payments as a Dominion tax. Also all stations did not include the tax on gasoline used as a tax. It is common practice to treat sales taxes as part of the cost of the commodity. Some stations, however, did include gasoline taxes with their taxes. The Dominion tax included income and excess profits tax, tax on exports of electricity, and the two mentioned above. The greater part of the municipal tax paid by municipal stations was tax payments continued by the Ontario Hydro-Electric Power Commission on plant acquired by the Commission from commercial stations, and in Quebec export taxes and other taxes paid by the newly created Quebec Hydro-Electric Commission.

T A X E S

Province	Commercial Stations				Municipal Stations			
	Municipal	Provincial	Dominion	Total	Municipal	Provincial	Dominion	Total
P. E. Island	\$ 19,829	\$ 1,358	\$ 1,080	\$ 22,267	\$ -	\$ -	\$ -	\$ -
Nova Scotia	267,129	9,233	765,388	1,041,750	49,895	1,667	1,234	52,796
New Brunswick	64,807	14,442	134,991	214,240	119	119	25	263
Quebec	2,020,390	165,421	7,293,463	9,479,274	613,224	3,101	105,573	721,898
Ontario	381,862	3,577	1,506,636	1,892,075	431,564	25,937	411,911	869,412
Manitoba	137,319	2,693	1,569	141,581	102,964	-	26	102,990
Saskatchewan..	110,326	70	250,405	360,801	62,709	-	22	62,731
Alberta	45,425	1,764	446,949	494,138	132,979	-	679	133,658
British Columbia, Yukon & N.W.T.	356,944	205,946	2,857,076	3,419,966	3,083	5,531	107,292	115,906
TOTAL	3,404,031	404,504	13,257,557	17,066,092	1,396,537	36,355	626,762	2,059,654
Total- Commercial Stna	3,404,031	404,504	13,257,557	17,066,092				
Municipal "	1,396,537	36,355	626,762	2,059,654				
TOTAL	4,800,568	440,859	13,884,319	19,125,746				

TABLE 7 - EMPLOYEES

There was a net increase of 1,513 employees during the year, New Brunswick and Alberta stations showing the only decreases. The following table analyses the hours of work of wage earners in the industry. The majority, 43 per cent, worked a 48 hour week and 30 per cent worked 44 hours or less per week. All stations did not report these data but the table gives a fair representation of the industry.

NUMBER OF WAGE EARNERS IN MONTH OF HIGHEST EMPLOYMENT
WHOSE REGULAR HOURS PER WEEK WERE:

Hours per week	30 or less	31-43	44	45-47	48	49-50	51-54	55	56-64	65 & over	Total
P. E. I.	-	-	1	-	63	-	1	-	7	3	75
N. S.	127	117	57	39	185	34	91	9	196	44	899
N. B.	105	70	43	9	199	9	19	-	48	14	516
Quebec	164	407	363	101	2,401	463	224	58	526	136	4,843
Ontario	268	566	641	595	2,590	535	312	47	213	34	5,801
Manitoba	186	291	393	16	359	25	28	13	113	96	1,520
Saskatchewan	40	10	54	17	344	10	24	1	4	6	510
Alberta	18	65	46	8	343	4	4	2	8	-	498
B.C. & Yukon	26	196	485	11	338	8	-	-	60	6	1,130
CANADA	934	1,722	2,083	796	6,822	1,088	703	130	1,175	339	15,792
P.C. of Total	5.92	10.90	13.19	5.04	43.20	6.89	4.45	0.82	7.44	2.15	100.00

TABLE 8 - CUSTOMERS

As explained under table 5, stations are required to segregate customers into seven classes but in the past many stations included farm customers with domestic customers, and in the Bureau's reports all customers in these two classes were combined and shown as "Domestic Customers". Below is a table showing the farm customers as reported, together with the respective consumptions and revenues received from them. These revenues do not include taxes as explained under "Revenues" on page 8. Because of the increasing attention to rural electrification, it is probable that these data are more comprehensive than previously reported. These data, however, are included under "Domestic" in tables 2, 5, 8 and 14 as in previous reports. The relatively large number of farm customers and low average revenue per kilowatt hour in Ontario are undoubtedly due to the assistance given by the Ontario Government to this class of service. The farm customers in Ontario include only farms, whereas in former years rural customers in hamlets were also included.

FARM SERVICE, 1945

Province	Number of Customers	Kilowatt Hours	Revenue	Kw. Hrs. per Customer	(1) Average Annual Bill	(1) Revenue per Kw.Hr.	(1) P.C. of Dominion Farm Service Consumption
P. E. Island	1,393	768,542	\$55,729	552	40.01	7.3	0.44
Nova Scotia	8,989	4,680,706	206,386	515	22.99	4.5	2.62
New Brunswick	7,517	2,343,568	181,824	312	24.19	7.3	1.33
Quebec	38,314	20,428,566	875,229	533	22.84	4.3	11.55
Ontario	67,526	140,626,396	2,672,196	2,083	39.57	1.9	79.53
Manitoba	1,236	1,382,940	62,578	1,119	50.53	4.5	0.78
Saskatchewan	417	303,949	29,236	729	70.11	9.6	0.17
Alberta	1,620	1,909,054	115,189	1,178	71.10	6.0	1.08
British Columbia	3,066	4,419,418	143,705	1,441	46.87	3.3	2.50
Canada	130,078	176,813,139	4,342,370	1,359	33.38	2.5	100.00

(1) Federal, Provincial and Municipal taxes on the electricity purchased are not included.

TABLE 9 - POLE LINE MILEAGE

Transmission and distribution lines are combined in this table and a division has been made showing the mileage of steel towers and poles, wooden poles, concrete poles, and submarine and underground cables. The last includes systems in cities and lines laid in trenches along the roadside serving rural customers. The steel towers and steel poles are used almost exclusively for high voltage transmission lines and only Quebec, Ontario and Manitoba have extensive mileage.

TABLES 10-11-12-13 - EQUIPMENT

The equipment of the power houses has been divided into two classes, main plant and auxiliary, or standby equipment. The auxiliary plant equipment includes all steam engines and turbines and internal combustion engines and dynamos driven by them in hydro-electric stations and all the equipment in non-generating stations. All other equipment is classed as main plant equipment and includes water wheels and turbines and generators driven by them in hydro-electric stations and all equipment in plants using thermal equipment only. It is quite possible that some of the fuel stations have equipment held as standby equipment for use only in emergencies or for occasional peaks and also that some hydraulic stations have hydraulic equipment similarly held, but it is all classified as main plant equipment. Although a few of the hydro-electric stations use their steam equipment during periods of low water and during periods of heavy demand, the greater part of it is held strictly in reserve for emergencies, only 89,115,000 kilowatt hours being generated during the year by this auxiliary equipment.

TABLE 14 - ELECTRIC ENERGY GENERATED

The electric energy generated is the output at the power plants less power used for the operation of the plants, and consequently includes all transformer and line losses entailed in delivering power to the consumers. The Kv.A. capacities shown were the rated dynamo capacities at the close of the year of both main and auxiliary plant of generating stations. The ratios indicate the relative position of the supply to the demand on a kilowatt

hour basis. This ratio is affected by other factors; one is the relationship of installed capacity to water available for hydraulic plants. This changes from month to month and from year to year and another factor is the production and sale of secondary power. A market for secondary power makes possible a greater production of kilowatt hours per unit of capacity than a market of firm power for the same installation. A few stations have found a market for their off-peak and surplus power by selling it for use in electric boilers and this class of sale grew quite rapidly, especially up to 1937. Since the outbreak of the war the supply of surplus power has been greatly reduced and with war industries working twenty four hours per day the supply of off-peak power has also been reduced so that sales of secondary power have shown a steady decrease up to the middle of 1943 when they began to increase again and continued to increase throughout 1944, 1945 and 1946.

TABLE 15 - FUEL

Fuel used was almost exclusively local coal, oil and gas, and stations in Nova Scotia and Saskatchewan were the largest users. The value of Canadian bituminous coal was 54 per cent of the total, lignite coal accounted for 13 per cent, fuel oil and diesel oil for 26 per cent and gasoline, gas, wood, etc., accounted for the remainder.

DOMESTIC SERVICE

In the following table data on domestics are brought together and analysed. As might be expected the provinces with relatively high percentages of rural populations, Prince Edward Island, Saskatchewan and Alberta, show the lowest number of customers per 100 population. The average cost per kilowatt hour is greatly affected by the nature of the use. Manitoba's low unit cost and high average consumption are influenced by flat rate water heaters and extensive use for cooking in Winnipeg; these induce high consumption per customer. There was also a large number of flat rate water heaters in Ontario. Also, where hydro-electric power is plentiful the rates are generally low and the average consumption high. The very low percentage of total power used by domestic customers in Quebec is affected by large exports to Ontario and large consumption by pulp and paper, aluminium and other electric metallurgical plants.

Domestic customers in Ontario used 58 per cent of the total power used by all domestic customers in Canada but the population of this province was almost a third of the total for the Dominion.

These bills do not include federal, provincial and municipal sales taxes paid by the consumers.

(1) DOMESTIC SERVICE

1945

Province	Number of Customers		Average Bill for Year	Average per Kilowatt Hour	Average Annual Consumption		Consumption by Domestic Service	
	Total	Per 100 Population			Per Customer	Per Capita	P.C. of total Provincial Consumption	P.C. of Dominion Dom. Service Consumption
P. E. Island	6,587	6.94	\$ 57.55	4.57	817	57	31.1	0.1
Nova Scotia	84,011	13.53	27.21	3.26	834	113	11.7	2.1
New Brunswick	62,175	13.29	30.29	4.10	739	98	7.7	1.4
Quebec	558,865	15.69	21.34	2.35	908	142	2.3	15.1
Ontario	839,968	20.98	28.21	1.21	2,537	490	18.3	58.3
Manitoba	94,673	12.86	44.76	1.02	4,399	566	18.2	12.4
Saskatchewan	61,285	7.25	41.87	4.39	953	69	23.4	1.7
Alberta	87,005	10.53	33.70	4.59	735	77	11.3	1.9
B.C. & Yukon	192,991	19.98	30.92	2.54	1,218	243	8.2	7.0
CANADA	1,987,360	16.40	28.05	1.66	1,693	278	8.4	100.0

(1) Includes Farm Customers.

T A B L E S

	<u>Page</u>
1. COMPARATIVE SUMMARY, 1936-1945	14
2. DOMESTIC SERVICE, 1936-1945	16
3. ELECTRIC POWER PLANTS, 1945	18
4. CAPITAL, 1945 (Data were not collected for 1945)	
5. REVENUE, 1945	20
6. EXPENSES - WAGES - FUEL - TAXES - COST OF POWER, 1945	22
7. EMPLOYEES, 1945	24
8. NUMBER OF CUSTOMERS, 1945	26
9. POLE LINE MILEAGE, 1945	28
10. AUXILIARY PLANT EQUIPMENT, 1945	28
11. TOTAL EQUIPMENT, 1945	30
12. MAIN PLANT EQUIPMENT, 1945	32
13. MAIN PLANT EQUIPMENT - CLASSIFIED, 1945	34
14. ELECTRIC ENERGY GENERATED, 1945	36
15. FUEL, 1945	38

T A B L E A U X

1. SOMMAIRE COMPARATIF, 1936-1945	14
2. SERVICE DOMESTIQUE, 1936-1945	16
3. USINES GENERATRICES, 1945	18
4. CAPITAL, 1945 (Les data refurent pas perçus pour 1945)	
5. RECETTES, 1945	20
6. DEPENSES - GAGES - COMBUSTIBLE - TAXES - ACHAT D'ENERGIE ELECTRIQUE, 1945	22
7. EMPLOYES, 1945	24
8. NOMBRE D'USAGERS, 1945	26
9. LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX, 1945	28
10. OUTILLAGE AUXILLIAIRE, 1945	28
11. OUTILLAGE GLOBAL, 1945	30
12. OUTILLAGE DES USINES PRINCIPALES, 1945	32
13. OUTILLAGE CLASSIFIE DES USINES PRINCIPALES, 1945	34
14. ENERGIE ELECTRIQUE GENERE, 1945	36
15. COMBUSTIBLE, 1945	38

TABLE 1 - COMPARATIVE SUMMARY, 1936-1945

PRINCIPAL DATA BY CLASS OF STATION	1945	1944	1943	1942	1941
<u>ELECTRIC POWER PLANTS</u>					
Total	600	626	622	616	607
Hydraulic	502	520	522	520	515
Fuel	298	306	300	296	294
Commercial	392	424	425	428	424
Municipal	208	202	197	188	183
<u>CAPITAL</u>					
Total	Data not collected in 1944 & 1945	1,776,224,640 1,149,225,710 628,998,950 1,584,624,501 195,600,139	1,747,891,798 1,127,978,532 619,913,466 1,559,495,588 188,396,410	1,641,460,451 1,054,714,025 586,746,426 1,459,900,540 181,559,911	
Commercial					
Municipal					
Generating					
Non-generating					
<u>REVENUE (1)</u>					
Total	215,105,475	215,246,591	204,801,508	205,835,365	186,018,040
Commercial	101,672,511	104,986,232	124,750,995	124,611,713	111,851,778
Municipal	113,452,962	110,260,159	80,070,515	79,225,652	74,166,262
Generating	183,227,685	185,574,224	175,217,757	173,916,640	157,283,409
Non-generating	51,877,788	29,672,167	29,585,751	29,918,725	28,734,651
<u>EXPENSES (2)</u>					
Total	155,104,091	151,289,947	155,555,469	152,581,418	117,758,977
Commercial	60,895,580	60,470,374	72,579,621	71,153,582	60,561,621
Municipal	74,210,511	70,819,575	62,975,848	61,448,056	57,197,556
Generating	83,356,610	79,913,496	81,500,674	80,171,586	69,148,513
Non-generating	51,767,481	51,376,451	54,054,795	52,409,832	48,610,464
<u>POLE LINE MILEAGE</u>					
Total	85,178	80,073	78,063	77,909	77,255
Commercial	31,117	30,877	32,085	31,847	31,442
Municipal	52,061	49,196	45,978	46,062	45,811
Generating	66,694	63,665	61,710	61,927	61,495
Non-generating	16,484	16,408	16,355	15,982	15,758
<u>CUSTOMERS</u>					
Total	2,533,250	2,238,023	(4) 2,164,861	2,125,304	2,081,270
Domestic service (3)	1,987,360	1,906,452	(4) 1,848,080	1,803,708	1,755,917
Commercial light	285,402	273,451	259,640	264,706	268,977
Power (small)	46,955	45,284	44,948	44,813	44,071
Power (large)	10,955	10,376	9,772	9,675	9,934
Street lighting	2,558	2,460	2,421	2,404	2,371
Commercial stations	766,554	753,239	(4) 1,005,316	985,059	954,906
Municipal stations	1,566,676	1,484,784	1,159,545	1,140,245	1,126,364
Generating stations	1,256,095	1,195,778	1,129,272	1,103,539	1,079,233
Non-generating stations	1,077,155	1,042,245	(4) 1,055,589	1,021,765	1,002,037
<u>ELECTRIC ENERGY GENERATED</u>					
Total Kilowatt Hours (thousands)	40,130,054	40,598,779	40,479,595	37,555,179	35,317,663
Commercial	25,550,857	25,688,580	31,082,239	28,177,587	24,795,715
Municipal	14,599,197	14,910,199	9,397,354	9,177,792	8,525,948
Exports to the United States (thousands) Kw.h.	2,646,455	2,585,511	2,545,558	2,455,739	2,354,229
Imports from the United States .. (thousands) Kw.h.	15,916	14,097	599	594	670
<u>EQUIPMENT IN GENERATING STATIONS (Main Plant Only)</u>					
Total Primary Power H.P.	9,666,947	9,713,791	9,602,794	8,615,696	8,157,585
Total in commercial stations H.P.	6,294,121	6,373,525	7,259,936	6,269,386	5,917,160
Total in municipal stations H.P.	3,372,826	3,340,268	2,362,858	2,344,310	2,240,425
Total Secondary Power Kv.A.	8,035,767	8,073,664	7,982,027	7,256,927	6,851,785
Total in commercial stations Kv.A.	5,227,037	5,290,874	6,074,895	5,366,769	5,054,727
Total in municipal stations Kv.A.	2,808,730	2,782,990	1,907,132	1,890,158	1,797,058
<u>AUXILIARY PLANT EQUIPMENT</u>					
Primary power H.P.	175,512	185,117	194,822	194,966	194,651
Secondary power Kv.A.	146,556	157,866	166,010	166,236	166,021

(1) Cost of power interchanged between stations excluded from revenue of purchasing stations (see page 7).

(2) Includes wages, cost of power, fuel and taxes, but not other expenses.

(3) Farm service is included with domestic service.

(4) Revised in 1944 report.

TABLEAU 1 - SOMMAIRE COMPARATIF, 1936-1945

1940	1939	1938	1937	1936	DONNEES PRINCIPALES PAR CLASSES D'USINES
602 515 289 421 181	611 513 298 427 184	589 515 276 406 185	568 514 254 389 179	561 512 249 390 171	<u>USINES ELECTRIQUES</u> <u>Total</u> Hydrauliques A combustible Commerciales Municipales
1,615,438,140 1,049,506,904 565,931,236 1,440,026,870 175,411,270	1,564,603,211 1,014,704,665 549,898,546 1,396,858,921 167,764,290	1,545,416,592 1,002,891,485 542,525,107 1,377,120,289 168,296,303	1,497,330,251 979,950,159 517,380,072 1,357,399,695 159,930,536	1,483,116,649 957,466,865 525,649,784 1,326,820,103 156,296,546	<u>CAPITAL</u> <u>Total</u> Commerciales Municipales Génératrices Non-génératrices
166,228,773 99,887,052 66,541,721 158,673,592 26,555,581	151,880,969 92,555,049 59,345,920 127,485,222 24,397,747	144,531,627 87,697,078 56,634,549 120,784,939 25,546,688	143,546,643 85,283,008 58,263,635 120,465,135 23,081,508	135,865,173 78,882,504 56,982,669 112,776,015 23,089,158	<u>RECETTES</u> (1) <u>Total</u> Commerciales Municipales Génératrices Non-génératrices
105,044,158 51,990,160 55,055,998 60,752,761 44,291,397	91,982,372 42,471,534 49,510,858 51,570,137 40,412,235	87,364,540 41,067,998 46,296,342 48,946,422 38,417,918	84,185,082 41,132,931 43,052,151 46,114,640 38,070,442	77,939,050 36,530,527 41,408,523 41,390,019 36,549,051	<u>DEPENSES</u> (2) <u>Total</u> Commerciales Municipales Génératrices Non-génératrices
75,050 30,935 44,117 59,676 15,574	72,152 30,288 41,844 57,084 15,048	66,977 29,555 37,622 52,375 14,604	63,055 28,332 34,705 48,866 14,169	59,456 27,271 32,165 45,099 14,557	<u>LIGNES SUR POTEAUX</u> <u>Total</u> Commerciales Municipales Génératrices Non-génératrices
2,006,508 1,686,388 265,175 43,138 9,490 2,517 926,093 1,088,415 1,052,453 982,075	1,941,663 1,625,672 262,590 43,896 9,267 2,238 889,418 1,052,245 998,067 943,596	1,875,621 1,559,594 259,893 41,999 10,152 2,183 859,506 1,014,115 954,797 918,824	1,805,995 1,500,128 252,305 41,415 10,066 2,081 833,711 972,284 916,648 889,547	1,740,795 1,443,059 245,144 40,742 9,840 2,008 802,576 938,117 866,407 874,586	<u>APORTEES</u> <u>Total</u> Service domestique (3) Eclairage commercial Force motrice (petite) Force motrice (grosse) Eclairage des rues
30,109,285 22,287,270 7,822,013	28,338,050 21,290,930 7,047,100	26,154,160 19,488,525 6,665,637	27,687,645 20,515,627 7,372,018	25,402,282 18,515,225 6,887,057	<u>ENERGIE ELECTRIQUE GENEREE</u> <u>Total Kw. heures generees (milliers)</u> Commerciale Municipale
2,132,129	1,908,756	1,822,103	1,843,227	1,573,980	Exportations d'électricité aux Etats-Unis (milliers) Kw.h.
655	666	624	1,317	765	Importations d'électricité des Etats-Unis (milliers) Kw.h.
7,935,867 5,708,664 2,227,203	7,607,122 5,385,632 2,221,490	7,476,976 5,300,183 2,176,793	7,342,085 5,205,529 2,158,556	7,119,272 5,012,968 2,106,504	<u>MACHINERIE DANS LES USINES GENERATRICES</u> (Usines principales seulement) Total force motrice primaire H.P. Total dans les usines commerciales .. H.P. Total dans les usines municipales .. H.P.
6,691,211 4,906,268 1,784,943	6,435,416 4,554,745 1,780,671	6,327,888 4,586,273 1,741,595	6,206,465 4,496,445 1,710,022	6,025,999 4,340,869 1,685,130	Total force motrice secondaire Kv.A. Total dans les usines commerciales .. Kv.A. Total dans les usines municipales .. Kv.A.
194,914 166,367	194,159 165,785	195,628 166,660	197,350 167,859	200,621 172,327	<u>OUTILLAGE D'USINES AUXILIAIRES</u> Force motrice primaire H.P. Force motrice secondaire Kv.A.

(1) Le coût de l'énergie échangée entre stations est exclu du revenu des stations en faisant l'achat (Voir p. 7).

(2) Incluent gages, coût de l'énergie, combustible et taxes, mais non les autres dépenses.

(3) L'éclairage des fermes est inclus dans l'éclairage domestique.

(4) Révisé en 1944.

TABLE 2 - DOMESTIC SERVICE, 1936 - 1945

Year Année	Number of Customers Nombre d'usagers	Kilowatt Hours Consumed Kilowatt heures consommées	Revenue Recettes	Kw. Hours per Customer Consommation moyenne annuelle par usager	Average Annual Bill Compte moyen de l'année	Revenue per Kilowatt Hour Moyenne par kilowatt heure
				kw.hrs.	\$	\$
CANADA		(000)	\$			
1936	1,443,059	1,887,116	58,599,102	1,308	26.61	2.03
1937	1,500,128	2,007,435	59,255,153	1,358	26.17	1.96
1938	1,559,394	2,172,500	41,302,107	1,393	26.49	1.90
1939	1,625,672	2,510,891	43,795,482	1,425	26.97	1.80
1940	1,686,388	2,456,572	46,444,357	1,445	27.54	1.91
1941	1,755,917	2,582,405	48,685,162	1,471	27.75	1.89
1942	1,803,708	2,716,895	50,706,757	1,506	28.11	1.87
1943	1,852,367	2,845,612	51,507,781	1,535	27.70	1.80
1944	1,906,452	3,045,980	55,511,353	1,568	27.96	1.75
1945	1,987,360	3,365,497	55,735,696	1,693	28.05	1.66
Change (Changement) 1936 - 1945						
Amount (Volume) Per cent (p.c.)	544,301 57.72	1,478,381 78.34	17,536,594 45.15	385 29.45	1.44 5.41	- 0.57 -16.25
PRINCE EDWARD ISLAND	1936	4,379	2,035	145,442	465	35.21
	1937	4,545	2,232	152,660	491	35.59
	1938	4,799	2,579	150,994	537	31.46
	1939	5,067	2,908	165,226	574	32.21
	1940	5,227	3,076	172,643	588	33.05
	1941	5,551	5,485	183,090	650	33.10
	1942	5,606	5,580	196,446	659	35.04
	1943	5,715	5,895	217,914	682	38.13
	1944	6,105	4,579	230,596	750	37.78
	1945	6,387	5,217	238,558	817	37.55
Change (Changement) 1936 - 1945						
Amount (Volume) Per cent (p.c.)	2,008 45.86	3,182 156.36	95,096 64.01	552 75.70	4.14 12.47	- 2.58 -56.08
NOVA SCOTIA	1936	54,765	29,212	1,457,054	555	26.61
	1937	58,165	51,692	1,555,298	545	26.40
	1938	58,556	55,507	1,595,086	605	27.24
	1939	62,054	59,084	1,709,507	650	27.56
	1940	65,790	43,277	1,877,812	658	28.54
	1941	69,997	48,357	2,065,057	691	29.50
	1942	72,592	50,877	2,166,648	715	29.85
	1943	75,957	57,324	2,156,852	755	28.40
	1944	79,904	63,516	2,459,703	795	30.53
	1945	84,011	70,099	2,286,558	834	27.21
Change (Changement) 1936 - 1945						
Amount (Volume) Per cent (p.c.)	29,248 55.41	40,887 139.97	829,504 56.92	301 56.47	.60 2.25	- 1.73 -54.67
NEW BRUNSWICK	1936	58,660	22,049	1,068,058	570	27.65
	1937	41,604	25,488	1,117,955	565	26.87
	1938	43,556	25,367	1,232,937	582	28.51
	1939	46,485	26,989	1,307,772	581	28.13
	1940	50,661	29,588	1,415,257	580	27.88
	1941	52,851	51,254	1,455,015	591	27.16
	1942	54,529	54,696	1,563,554	656	28.67
	1943	56,259	55,294	1,661,550	628	29.54
	1944	58,860	59,441	1,767,580	670	30.05
	1945	62,175	45,958	1,885,574	739	30.29
Change (Changement) 1936 - 1945						
Amount (Volume) Per cent (p.c.)	25,515 60.83	25,909 108.44	815,555 76.34	169 29.65	2.66 9.65	- 0.74 -15.29
QUEBEC	1936	590,711	241,799	7,723,975	619	19.77
	1937	407,155	265,405	8,105,946	652	19.92
	1938	421,178	287,107	8,669,034	682	20.58
	1939	454,825	511,420	9,167,584	716	21.08
	1940	451,791	524,052	9,634,598	717	21.32
	1941	475,547	542,627	10,100,300	724	21.55
	1942	488,014	568,175	10,785,887	754	22.10
	1943	507,765	598,505	10,791,660	784	21.25
	1944	550,396	446,142	11,504,901	841	21.51
	1945	558,865	507,274	11,925,494	908	21.54
Change (Changement) 1936 - 1945						
Amount (Volume) Per cent (p.c.)	168,154 45.04	265,475 109.79	4,201,521 54.40	289 48.69	1.57 7.94	- 0.84 -26.33

TABLEAU 2 - SERVICE DOMESTIQUE, 1956 - 1945

	Year Année	Number of Customers Nombre d'usagers	Kilowatt Hours Consumed Kilowatt heures consommées	Revenue Recettes	Kw. Hours per Customer Consommation moyenne annuelle par usager	Average Annual Bill Compte moyen de l'année	Revenue per Kilowatt Hour Moyenne par kilowatt heure
		(000)	\$	kw. hrs.	\$	\$	\$
<u>ONTARIO</u>	1936	634,052	1,098,598	17,716,656	1,735	27.94	1.61
	1937	660,262	1,174,558	17,718,484	1,779	26.84	1.51
	1938	691,498	1,285,568	18,456,575	1,859	26.69	1.44
	1939	719,871	1,374,525	19,657,658	1,909	27.51	1.43
	1940	745,396	1,459,235	20,928,097	1,958	28.06	1.43
	1941	772,155	1,546,189	21,980,051	2,002	28.47	1.42
	1942	787,721	1,623,780	22,807,897	2,061	28.95	1.40
	1943	801,450	1,682,562	23,000,644	2,099	28.70	1.37
	1944	813,556	1,787,559	23,259,991	2,198	28.57	1.30
	1945	839,968	1,965,043	23,699,446	2,357	28.21	1.21
Change (Changement) Amount (Volume) Per cent (p.c.)	1936 - 1945	205,916 32.48	864,445 78.69	5,982,810 55.77	604 34.85	.27 .97	- 0.40 -24.84
<u>MANITOBA</u>	1936	75,858	296,110	5,029,140	5,905	39.93	1.02
	1937	76,516	303,271	5,122,597	5,965	40.81	1.03
	1938	77,762	511,795	5,225,605	4,010	41.45	1.03
	1939	81,091	520,827	5,311,662	5,956	40.84	1.03
	1940	85,404	530,269	5,423,512	5,960	41.04	1.04
	1941	85,106	343,041	3,472,277	4,051	40.80	1.01
	1942	87,615	555,928	3,570,492	4,062	40.75	1.00
	1943	88,528	574,169	3,712,551	4,226	41.93	.99
	1944	92,073	589,865	3,871,419	4,254	42.05	.99
	1945	94,675	416,499	4,257,484	4,599	44.76	1.02
Change (Changement) Amount (Volume) Per cent (p.c.)	1936 - 1945	18,815 24.80	120,589 40.66	1,208,544 59.89	496 12.71	4.85 12.10	- -
<u>SASKATCHEWAN</u>	1936	46,478	36,044	1,851,794	776	39.84	5.14
	1937	46,630	37,254	1,852,505	798	39.75	4.98
	1938	48,060	59,077	1,905,731	813	39.61	4.87
	1939	49,980	41,198	2,004,455	824	40.10	4.87
	1940	51,425	45,406	2,093,205	844	40.70	4.82
	1941	52,695	45,448	2,173,255	862	41.24	4.78
	1942	54,152	46,858	2,173,896	866	40.16	4.64
	1943	55,500	48,996	2,257,885	883	40.68	4.61
	1944	58,089	52,724	2,597,702	908	41.28	4.55
	1945	61,285	58,402	2,565,796	955	41.87	4.59
Change (Changement) Amount (Volume) Per cent (p.c.)	1936 - 1945	14,807 51.86	22,558 62.05	714,002 58.56	177 22.81	2.05 5.10	- 0.75 -14.59
<u>ALBERTA</u>	1936	59,600	53,481	1,789,422	562	30.02	5.34
	1937	61,121	55,339	1,865,520	578	30.52	5.28
	1938	65,030	58,089	1,983,226	604	31.46	5.21
	1939	68,267	42,210	2,145,093	618	31.42	5.08
	1940	69,397	45,110	2,275,091	650	32.78	5.04
	1941	72,422	47,572	2,393,189	657	35.05	5.03
	1942	74,814	49,089	2,595,075	656	31.99	4.87
	1943	77,810	52,100	2,514,051	670	32.51	4.83
	1944	81,652	56,977	2,698,155	698	35.04	4.74
	1945	87,005	63,962	2,952,410	735	35.70	4.59
Change (Changement) Amount (Volume) Per cent (p.c.)	1936 - 1945	27,405 45.98	50,481 91.04	1,142,988 65.87	175 30.78	3.68 12.26	- 0.75 -14.04
<u>BRITISH COLUMBIA</u>	1936	138,558	127,768	3,617,603	922	26.11	2.85
	1937	144,150	134,414	3,779,592	953	26.22	2.81
	1938	150,955	147,615	4,086,919	978	27.07	2.77
	1939	156,052	151,930	4,326,747	974	27.75	2.85
	1940	163,277	158,781	4,526,562	972	28.34	2.91
	1941	171,655	174,454	4,880,948	1,015	28.44	2.80
	1942	178,685	182,914	5,049,084	1,024	28.26	2.76
	1943	179,156	190,967	4,994,894	1,066	27.88	2.62
	1944	186,019	206,377	5,361,506	1,109	28.82	2.60
	1945	192,991	235,045	5,966,796	1,218	30.92	2.54
Change (Changement) Amount (Volume) Per cent (p.c.)	1936 - 1945	54,453 59.29	107,255 85.95	2,349,195 64.94	296 52.10	4.81 18.42	- 0.29 -10.25

TABLE 3 - ELECTRIC POWER PLANTS, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
<u>Total number of generating stations</u>	600	9	47	14
Per cent of total for Canada	100.00	1.50	7.85	2.53
<u>COMMERCIAL</u>	592	8	20	8
Hydraulic	185	4	12	5
Fuel	209	4	8	3
<u>MUNICIPAL</u>	208	1	27	6
Hydraulic	119	-	20	5
Fuel	89	1	7	3
With water wheels and turbines	302	4	32	8
With steam engines only	20	-	-	1
With steam turbines only	24	1	7	1
With gas or oil engines only	247	4	7	3
With both steam engines and turbines	4	-	1	1
With both steam and gas or oil engines	1	-	-	-
With alternating current dynamos only	463	9	47	12
With direct current dynamos only	133	-	-	1
With both alternating and direct current dynamos ...	2	-	-	1
<u>COMMERCIAL ORGANIZATIONS</u>	X 372	7	17	14
Number generating power	269	5	11	7
Number buying power for redistribution	105	2	6	7
<u>MUNICIPALITIES</u>	X 463	1	25	10
Number generating power	80	1	8	2
Number buying power for redistribution	387	-	15	8
<u>AUXILIARY PLANTS</u>	57	1	5	2
To hydraulic stations	42	1	1	-
To non-generating stations	15	-	4	2

I - Organizations operating in two or more provinces are shown under provinces, but are included in total as only one organization.

TABLEAU 5 - USINES GENERATRICES, 1945

Quebec	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia & Yukon	
99	120	19	141	78	73	<u>Nombre d'usines génératrices</u>
16.50	20.00	5.17	23.50	13.00	12.17	Pourcentage du total pour le Canada
75	51	12	100	67	51	<u>COMMERCIALES</u>
73	48	2	-	4	35	Hydrauliques
2	3	10	100	63	16	A combustible
24	69	7	41	11	22	<u>MUNICIPALES</u>
21	62	2	-	-	11	Hydrauliques
3	7	5	41	11	11	A combustible
94	110	4	-	4	46	Avec roues et turbines hydrauliques
1	4	1	1	7	5	Avec machines à vapeur seulement
1	-	-	7	4	3	Avec turbines à vapeur seulement
3	6	13	132	60	19	Avec moteurs à gaz ou à pétrole seulement
-	-	-	1	1	-	Avec machines et turbines à vapeur à la fois
-	-	1	-	-	-	Avec machines à vapeur à gaz et à pétrole
98	119	17	53	39	69	Avec dynamos à courant alternatif seulement
1	1	2	88	36	4	Avec dynamos à courant direct seulement
-	-	-	-	1	-	Avec dynamos à courant alternatif et direct
63	60	16	83	69	45	<u>USINES COMMERCIALES</u>
35	34	10	81	57	29	Nombre d'usines génératrices
28	26	6	2	12	16	Nombre d'usines achetant de l'électricité pour la revendre
33	328	8	30	15	19	<u>MUNICIPALITES</u>
14	11	4	22	9	9	Nombre d'usines génératrices
19	317	4	8	6	10	Nombre d'usines achetant de l'électricité pour la revendre
9	8	3	-	8	21	<u>USINES AUXILIAIRES</u>
8	5	2	-	8	17	Aux usines hydrauliques
1	3	1	-	-	4	Aux usines non-génératrices

X - Les compagnies exploitant des usines dans deux ou plusieurs provinces sont inscrites au chapitre des provinces, mais n'apparaissent qu'une fois dans le total.

TABLE 5 - REVENUE, 1945 (1)

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
REVENUE FROM SALE OF ELECTRIC ENERGY	\$ 215,105,475	\$ 555,934	\$ 8,562,069	\$ 5,639,747	\$ 80,494,022
For domestic service	55,755,696	238,538	2,286,558	1,883,574	11,925,494
For commercial light	32,911,620	150,764	1,500,081	959,491	8,924,961
For power (small)	10,947,854	50,698	1,202,050	427,499	2,550,051
For power (large)	110,481,122	95,203	5,172,955	2,240,375	55,922,502
For street lighting	5,029,181	20,751	200,625	149,008	1,171,054
REVENUE OF COMMERCIAL STATIONS	101,672,511	402,506	5,730,881	2,927,911	53,457,478
Non-generating	8,416,396	499	705,034	507,554	172,878
Generating	93,256,115	402,007	5,025,847	2,420,377	53,284,600
Hydraulic	84,368,768	15,716	1,210,154	1,749,567	53,242,473
Fuel	8,887,547	586,291	3,815,693	670,810	42,127
REVENUE OF MUNICIPAL STATIONS	113,432,962	153,428	2,631,188	2,711,856	27,056,544
Non-generating	23,461,592	-	365,285	616,182	661,173
Generating	89,971,570	153,428	2,265,905	2,095,654	26,375,371
Hydraulic	80,090,602	-	1,825,500	109,369	26,258,147
Fuel	9,880,968	153,428	442,405	1,986,285	117,224
Revenue of non-generating stations	51,877,788	499	1,070,317	1,123,716	834,051
Revenue of generating stations	183,227,685	555,435	7,291,752	4,516,051	79,659,971
Revenue of hydraulic stations	164,459,570	15,716	3,053,654	1,858,936	79,500,620
Revenue of fuel stations	18,768,315	539,719	4,258,098	2,657,095	159,351
Average revenue per H.P. of primary power	22.25	60.53	40.90	57.66	14.90
Average revenue per H.P. in main and auxiliary plants	21.86	59.46	40.41	56.99	14.80
Average revenue per Kv.A. of dynamo capacity	26.77	80.05	49.41	45.94	17.60
Average revenue per Kv.A. in main and auxiliary plants	26.29	79.50	48.85	45.25	17.47
Average revenue per kilowatt hour consumed Cents	.55	5.32	1.59	.95	.36
Average revenue per domestic service customer	28.05	57.55	27.21	30.29	21.34
Average revenue per commercial light customer	115.52	122.97	126.65	126.19	117.14
Average revenue per small power customer	253.16	415.56	468.63	525.84	252.03
Average revenue per large power customer	10,084.99	11,900.58	16,877.42	17,102.10	55,346.75
Average revenue per kilowatt hour - domestic and farm service Cents	1.66	4.57	5.26	4.10	2.35
Average revenue per kilowatt hour - commercial light ... Cents	2.04	4.55	5.18	5.03	2.25

* Affected by power purchased from other province.

I Adjusted for power purchased from Quebec plants.

(1) Gross revenue less cost of power interchanged between stations.

TABLEAU 5 - RECETTES, 1945 (1)

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
\$ 85,923,618	11,182,472	7,017,204	49,152,416	20,479,071	<u>RECETTES PROVENANT DE LA VENTE D'ÉLECTRICITÉ</u>
25,699,446	4,237,484	2,565,796	2,952,410	5,966,795	Pour éclairage domestique
10,525,778	2,191,213	2,074,137	2,484,413	4,520,782	Pour éclairage commercial
3,587,090	499,517	977,063	944,162	909,744	Pour force motrice (petite)
46,501,896	3,995,545	1,099,860	2,499,639	8,854,427	Pour force motrice (grosse)
2,209,408	258,913	500,548	291,792	421,322	Pour éclairage des rues
11,534,574	5,782,421	2,561,198	4,327,337	18,279,075	<u>RECETTES DES USINES COMMERCIALES</u>
2,890,475	232,157	194,422	111,114	5,735,356	Non-génératrices
8,443,901	5,550,264	2,366,776	4,216,225	12,545,719	Génératrices
8,414,420	5,448,750	-	5,098,899	12,188,588	Hydrauliques
29,481	101,514	2,366,776	1,117,524	357,531	A combustible
74,589,244	5,400,051	4,456,006	4,825,079	2,199,996	<u>RECETTES DES USINES MUNICIPALES</u>
17,105,551	1,546,584	950,981	1,569,271	729,007	Non-génératrices
57,483,893	3,853,867	5,525,025	5,255,808	1,470,989	Génératrices
57,386,465	3,775,552	-	-	1,245,739	Hydrauliques
97,428	78,115	5,525,025	5,255,808	225,250	A combustible
19,995,824	1,778,541	1,125,405	1,680,385	6,462,563	Recettes des usines non-génératrices
65,927,794	9,403,931	5,891,801	7,472,051	14,016,708	Recettes des usines génératrices
65,800,885	9,224,302	-	3,098,899	13,434,127	Recettes des usines hydrauliques
126,909	179,629	5,891,801	4,573,152	582,581	Recettes des usines à combustible
I 26.75	21.85	41.46	44.90	28.16	Moyenne de recettes par H.P. de machinerie primaire
I 25.39	21.10	41.46	41.08	26.27	Moyenne de recettes par H.P. de machinerie principale et auxiliaires
I 35.96	27.25	49.10	53.95	34.50	Moyenne de recettes par Kv.A. de capacité de dynamos
I 33.52	26.16	49.10	49.12	32.23	Moyenne de recettes par Kv.A. de capacité des dynamos, usines principales et auxiliaires
.55	.49	2.81	1.58	.71	Moyenne de recettes par Kw. heure (cents)
28.21	44.76	41.87	55.70	30.92	Moyenne de recettes par abonnés d'éclairage domestique
98.24	118.04	122.95	134.77	145.41	Moyenne de recettes par abonnés d'éclairage commercial
237.42	151.65	532.35	152.48	190.60	Moyenne de recettes par abonnés pour petite force motrice
12,758.86	1,079.82	9,165.50	4,245.87	9,698.17	Moyenne de recettes par abonnés pour grosse force motrice
1.21	1.02	4.59	4.58	2.54	Moyenne de recettes par Kw. heure-service domestique et de ferme (cents)
1.55	1.92	4.62	5.92	2.90	Moyenne de recettes par Kw. heure - service commercial (cents)

/ Affecté par énergie achetée d'une autre province.

X Adjusté pour achats de courant des usines du Québec.

(1) Revenu brut moins le coût de l'énergie échangée entre stations.

TABLE 6 - EXPENSES, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
TOTAL EXPENSES	\$ 135,104,091	\$ 515,871	\$ 7,611,130	\$ 2,925,815	\$ 54,587,130	
Per cent of total for Canada	100.00	0.25	5.65	2.17	25.45	
Salaries and wages	39,521,365	117,991	1,726,999	797,853	11,408,296	
Fuel	5,098,761	171,480	1,599,099	707,070	54,458	
Taxes (x)	19,125,746	22,267	1,094,546	214,503	10,201,172	
Cost of power	71,558,219	2,155	5,590,486	1,204,589	12,723,224	
TOTAL FOR COMMERCIAL STATIONS	60,895,580	266,984	5,948,811	1,525,848	25,001,212	
Salaries and wages	17,046,275	105,884	1,260,272	405,558	8,158,951	
Fuel	2,880,521	158,700	1,228,867	249,170	8,520	
Taxes	17,066,092	22,267	1,041,750	214,240	9,479,274	
Cost of power	25,900,892	2,155	2,417,922	656,880	7,574,467	
Non-generating stations	12,451,142	2,159	1,011,222	883,568	164,846	
Generating stations	48,462,458	264,825	4,937,589	640,280	24,856,566	
Hydraulic stations	41,360,295	6,004	690,476	204,565	24,816,176	
Fuel stations	7,102,143	258,821	4,247,113	435,717	20,190	
TOTAL FOR MUNICIPAL STATIONS	74,210,511	46,887	1,662,519	1,599,967	9,585,918	
Salaries and wages	22,475,090	14,107	466,727	594,295	5,269,345	
Fuel	2,218,440	32,780	170,252	457,900	45,918	
Taxes	2,059,654	-	52,796	265	721,898	
Cost of power	47,457,527	-	972,564	547,509	5,548,757	
Non-generating stations	59,556,559	-	896,870	652,554	571,080	
Generating stations	54,874,172	46,887	765,449	767,415	8,814,858	
Hydraulic stations	50,685,424	-	270,558	44,845	8,750,508	
Fuel stations	6,474,142	46,887	494,911	722,570	64,550	
TOTAL EXPENSES FOR NON-GENERATING STATIONS	51,767,481	2,159	1,908,092	1,516,122	755,926	
Salaries and wages	10,145,087	-	572,943	295,084	216,527	
Fuel	15,991	-	107	-	-	
Taxes	1,806,120	28	184,562	86,381	8,254	
Cost of power	59,800,285	2,155	1,350,480	1,156,657	511,365	
TOTAL EXPENSES FOR GENERATING STATIONS	83,556,610	511,712	5,703,058	1,407,695	53,651,204	
Salaries and wages	29,376,278	117,991	1,554,056	504,789	11,191,969	
Fuel	5,062,770	171,480	1,398,992	707,070	54,458	
Taxes	17,519,626	22,241	909,984	128,122	10,192,938	
Cost of power	51,557,956	-	2,040,006	67,752	12,211,859	
Hydraulic stations	72,045,719	6,004	961,014	249,406	53,566,684	
Fuel stations	15,576,285	505,708	4,742,024	1,156,287	84,520	

(x) Sales tax not included (see page 7)

✓ Includes only the four items listed.

TABLEAU 6 - ¹ DEPENSES, 1945

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
\$	\$	\$	\$	\$	
83,553,925	4,034,459	5,815,325	4,296,824	14,569,612	<u>TOTAL DES DEPENSES</u>
46.89	2.99	2.82	3.18	10.64	Pourcentage du total pour le Canada
15,826,660	2,925,342	1,240,585	1,462,159	4,017,480	Salaires et gages
41,416	52,547	1,246,094	865,518	561,299	Combustible
2,761,487	244,571	425,532	627,796	3,555,872	Taxes (x)
44,724,562	813,999	905,114	1,341,551	8,254,961	Achat d'énergie électrique
10,053,555	1,611,502	1,462,799	1,875,906	15,148,963	<u>TOTAL POUR LES USINES COMMERCIALES</u>
1,444,760	959,055	489,113	778,895	3,468,007	Salaires et gages
16,867	18,588	446,098	264,602	510,909	Combustible
1,892,075	141,581	560,801	494,158	3,419,966	Taxes
8,899,855	494,298	186,787	538,471	5,750,081	Achat d'énergie électrique
2,658,960	528,578	146,519	47,455	8,988,255	Usines non-génératrices
7,594,595	1,085,124	1,316,480	1,828,471	8,160,708	Usines génératrices
7,580,415	1,055,085	-	1,282,565	5,965,013	Usines hydrauliques
14,182	48,039	1,318,480	565,906	195,895	Usines à combustible
53,500,570	2,422,957	2,350,526	2,420,918	1,220,649	<u>TOTAL POUR LES USINES MUNICIPALES</u>
14,581,900	1,964,507	751,472	885,464	549,475	Salaires et gages
24,549	55,959	799,998	600,718	50,590	Combustible
869,412	102,990	62,751	155,658	115,906	Taxes
58,024,509	519,701	736,527	1,005,080	504,880	Achat d'énergie électrique
33,496,786	1,061,370	851,907	1,554,455	471,517	Usines non-génératrices
19,805,584	1,561,587	1,498,619	1,068,463	749,532	Usines génératrices
19,786,865	1,315,605	-	-	535,267	Usines hydrauliques
2,320,313	45,984	1,498,619	1,068,463	214,065	Usines à combustible
56,155,746	1,589,748	998,226	1,401,890	7,459,572	<u>TOTAL DES DEPENSES DES USINES NON-GENERATRICES</u>
8,416,796	754,051	134,471	253,141	1,704,294	Salaires et gages
6,773	7,869	-	-	1,442	Combustible
351,091	14,049	89,072	118,568	974,159	Taxes
29,401,086	813,999	774,683	1,050,183	4,779,697	Achat d'énergie électrique
27,198,179	2,444,711	2,815,099	2,894,934	6,910,040	<u>TOTAL DES DEPENSES DES USINES GENERATRICES</u>
9,409,884	2,169,511	1,106,114	1,209,018	2,515,186	Salaires et gages
34,645	44,878	1,246,094	865,518	559,857	Combustible
2,430,398	250,522	554,460	509,250	2,561,755	Taxes
15,525,276	-	128,451	511,568	1,475,264	Achat d'énergie électrique
27,147,078	2,550,688	-	1,282,565	6,500,280	Usines hydrauliques
2,334,495	94,025	2,815,099	1,652,569	409,760	Usines à combustible

¹ Ne comprend que les quatre items énumérés.

(x) Taxe des ventes non comprises (Voir p. 7).

TABLE 7 - EMPLOYEES, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
TOTAL NUMBER OF PERSONS EMPLOYED	21,283	85	1,097	658	6,224	
Per cent of total for Canada	100.00	0.40	5.15	3.09	29.24	
Officers, clerks, other salaried employees, etc. ...	7,260	27	374	184	1,718	
Employees on wages	14,023	58	723	474	4,506	
TOTAL EMPLOYEES IN COMMERCIAL STATIONS	9,401	72	711	266	4,681	
Officers, clerks, other salaried employees, etc. ...	2,674	23	206	82	1,010	
Employees on wages	6,727	49	505	184	3,671	
Non-generating	1,188	-	138	108	33	
Generating	8,213	72	573	158	4,648	
Hydraulic	7,129	4	173	77	4,639	
Fuel	1,084	68	400	81	9	
TOTAL EMPLOYEES IN MUNICIPAL STATIONS	11,882	13	386	392	1,543	
Officers, clerks, other salaried employees, etc. ...	4,586	4	168	102	708	
Employees on wages	7,296	9	218	290	835	
Non-generating	4,607	-	102	91	127	
Generating	7,275	13	284	301	1,416	
Hydraulic	6,240	-	190	30	1,400	
Fuel	1,035	13	94	271	16	
TOTAL EMPLOYEES IN NON-GENERATING STATIONS	5,795	-	240	199	160	
Officers, clerks, other salaried employees, etc. ...	2,682	-	90	97	64	
Employees on wages	3,113	-	150	102	96	
TOTAL EMPLOYEES IN GENERATING STATIONS	15,488	85	857	459	6,064	
Officers, clerks, other salaried employees, etc. ...	4,578	27	284	87	1,654	
Employees on wages	10,910	58	573	372	4,410	
Hydraulic	13,369	4	363	107	6,039	
Fuel	2,119	81	494	352	25	

TABLEAU 7 - EMPLOYES, 1945

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia and Yukon	
8,240	1,589	719	743	1,928	<u>TOTAL DU PERSONNEL OCCUPE</u>
38.72	7.47	3.58	3.49	9.06	Pourcentage du total pour le Canada
3,086	581	183	275	832	Administrateurs, directeurs, commis et tous employés des bureaux
5,154	1,008	536	468	1,096	Ouvriers et journaliers
753	545	355	399	1,619	<u>PERSONNEL DES USINES COMMERCIALES</u>
201	227	71	158	696	Administrateurs, directeurs, commis et tous employés des bureaux
552	318	284	241	923	Ouvriers et journaliers
81	12	48	10	758	Non-génératrices
672	533	307	389	861	Génératrices
667	514	-	231	824	Hydrauliques
5	19	307	158	37	Combustible
7,487	1,044	364	344	309	<u>PERSONNEL DES USINES MUNICIPALES</u>
2,885	354	112	117	136	Administrateurs, directeurs, commis et tous employés des bureaux
4,602	690	252	227	173	Ouvriers et journaliers
3,621	420	56	123	67	Non-génératrices
3,866	624	308	221	242	Génératrices
3,854	605	-	-	161	Hydrauliques
12	19	308	221	81	Combustible
3,702	432	104	153	825	<u>PERSONNEL DES USINES NON-GENERATRICES</u>
1,735	99	35	74	488	Administrateurs, directeurs, commis et tous employés des bureaux
1,967	333	69	59	337	Ouvriers et journaliers
4,538	1,157	615	610	1,103	<u>PERSONNEL DES USINES GENERATRICES</u>
1,351	482	148	201	344	Administrateurs, directeurs, commis et tous employés des bureaux
3,187	675	467	409	759	Ouvriers et journaliers
4,521	1,119	-	231	985	Hydrauliques
17	38	615	379	118	Combustible

TABLE 8 - NUMBER OF CUSTOMERS, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
<u>NUMBER OF CUSTOMERS</u>	2,535,280	7,757	98,689	71,127	648,611	
Per cent of total for Canada	100.00	.55	4.25	3.05	27.80	
Domestic service	1,987,560	6,587	84,011	62,175	558,865	
Commercial light	285,402	1,226	11,646	7,445	76,189	
Power (small)	46,955	122	2,565	1,312	10,990	
Power (large)	10,955	8	188	151	1,677	
Street lighting	2,558	14	79	64	890	
<u>COMMERCIAL STATIONS</u>	766,554	6,581	65,615	28,588	302,690	
Domestic service	642,756	5,254	55,663	25,878	261,153	
Commercial light	101,792	1,026	8,026	3,898	34,585	
Power (small)	16,520	81	1,794	708	5,071	
Power (large)	4,256	7	92	85	1,049	
Street lighting	1,450	15	40	21	632	
Non-generating	218,427	115	25,184	17,455	4,630	
Generating	548,127	6,266	40,431	11,153	298,060	
Hydraulic	456,492	411	11,291	2,492	297,501	
Fuel	91,635	5,855	29,140	8,641	559	
<u>MUNICIPAL STATIONS</u>	1,566,676	1,376	53,074	42,559	345,921	
Domestic service	1,344,624	1,133	28,348	38,297	297,712	
Commercial light	183,610	200	5,820	5,547	41,604	
Power (small)	30,635	41	771	604	5,919	
Power (large)	6,699	1	96	48	628	
Street lighting	1,108	1	59	43	58	
Non-generating	858,708	-	17,171	16,268	22,904	
Generating	707,968	1,376	15,903	26,271	323,017	
Hydraulic	593,569	-	8,650	2,105	321,722	
Fuel	114,599	1,376	7,253	24,166	1,295	
<u>NON-GENERATING STATIONS</u>	1,077,135	115	42,555	33,723	27,534	
Domestic service	920,415	82	36,702	29,001	24,435	
Commercial light	150,774	32	4,655	4,016	2,515	
Power (small)	21,456	-	898	641	493	
Power (large)	3,738	-	69	44	48	
Street lighting	754	1	33	21	45	
<u>GENERATING STATIONS</u>	1,256,095	7,642	56,554	37,404	621,077	
Hydraulic stations	1,050,061	411	19,941	4,597	619,223	
Domestic service	902,851	321	17,255	3,895	533,020	
Commercial light	120,694	87	2,177	580	73,264	
Power (small)	18,519	2	405	93	10,470	
Power (large)	6,702	-	77	24	1,628	
Street lighting	1,295	1	27	5	841	
Fuel stations	206,054	7,231	36,395	32,807	1,854	
Domestic service	164,096	5,984	30,054	29,279	1,412	
Commercial	33,934	1,107	5,016	2,849	410	
Power (small)	6,980	120	1,262	578	27	
Power (large)	515	8	42	63	1	
Street lighting	509	12	19	38	4	
Average number of domestic service customers per 100 of population	16.40	6.94	13.55	13.29	15.69	

TABLEAU 8 - NOMBRE D'USAGERS, 1945

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
963,577	120,953	81,575	112,433	228,508	<u>NOMBRE D'USAGERS</u>
41,30	5,18	3,50	4,82	9,79	Pourcentage du total pour le Canada
859,968	94,673	61,285	87,005	192,991	Service domestique
105,113	18,564	16,870	18,434	29,715	Eclairage commercial
14,266	3,795	2,940	6,192	4,773	Force motrice (petite)
3,629	3,700	120	589	915	Force motrice (grosse)
601	221	360	213	116	Eclairage des rues
65,284	56,570	50,557	39,225	191,646	<u>NOMBRE D'USAGERS DES USINES COMMERCIALES</u>
56,574	27,388	22,574	27,619	162,635	Service domestique
7,502	7,065	6,598	8,610	24,484	Eclairage commercial
798	470	1,151	2,538	5,709	Force motrice (petite)
351	1,627	48	260	739	Force motrice (grosse)
59	22	186	196	81	Eclairage des rues
14,423	8,550	5,266	2,646	142,158	Non-génératrices
50,861	28,020	27,291	36,577	49,488	Génératrices
50,441	26,595	-	21,046	46,917	Hydrauliques
420	1,627	27,291	15,531	2,571	Combustible
898,295	84,383	51,018	75,210	36,862	<u>NOMBRE D'USAGERS DES USINES MUNICIPALES</u>
785,394	67,285	38,711	59,386	30,358	Service domestique
97,611	11,501	10,272	9,824	5,251	Eclairage commercial
15,468	3,325	1,789	3,654	1,064	Force motrice (petite)
3,278	2,073	72	529	174	Force motrice (grosse)
542	199	174	17	35	Eclairage des rues
707,998	28,026	17,053	32,112	17,176	Non-génératrices
190,295	56,557	33,965	41,098	19,686	Génératrices
188,765	54,994	-	-	17,353	Hydrauliques
1,530	1,363	33,965	41,098	2,353	Combustible
722,421	56,576	20,519	34,758	159,534	<u>NOMBRE D'USAGERS DES USINES NON-GENERATRICES</u>
622,064	28,935	15,416	28,444	135,336	Service domestique
85,017	6,074	3,797	4,321	20,349	Eclairage commercial
12,370	1,121	1,014	1,914	3,005	Force motrice (petite)
2,642	250	32	66	587	Force motrice (grosse)
528	196	60	13	57	Eclairage des rues
241,156	84,377	61,256	77,675	69,174	<u>NOMBRE D'USAGERS DES USINES GENERATRICES</u>
239,206	61,387	-	21,046	64,250	Usines hydrauliques
216,301	63,551	-	14,637	53,871	Service domestique
19,864	11,845	-	4,512	8,365	Eclairage commercial
1,788	2,534	-	1,571	1,656	Force motrice (petite)
985	3,447	-	224	317	Force motrice (grosse)
268	10	-	102	41	Eclairage des rues
1,950	2,990	61,256	56,629	4,924	Usines à combustible
1,605	2,187	45,869	43,924	3,784	Service domestique
252	645	15,075	9,601	1,001	Eclairage commercial
108	140	1,926	2,707	112	Force motrice (petite)
2	3	88	299	9	Force motrice (grosse)
5	15	300	98	18	Eclairage des rues
20.98	12.86	7.25	10.53	19.98	Moyenne de consommateurs d'éclairage électrique par 100 habitants

TABLE 9 - POLE LINE MILEAGE, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
<u>POLE LINE MILEAGE</u>	85,178	519	4,587	5,592	16,059
Per cent of total for Canada	100.00	0.58	5.51	4.32	19.51
Miles of steel towers	5,569	-	21	243	1,401
Miles of steel poles	760	-	414	-	260
Miles of wooden poles	74,477	516	4,158	3,547	13,645
Miles of concrete poles	529	-	-	1	-
Miles of underground and submarine cables	2,045	3	14	1	755
<u>TOTAL POLE LINE MILEAGE - COMMERCIAL STATIONS</u>	51,117	297	2,255	753	13,168
Non-generating	5,462	11	466	271	245
Generating	25,655	286	1,787	462	12,923
Hydraulic	22,168	25	1,093	260	12,911
Fuel	5,487	261	694	202	12
<u>TOTAL POLE LINE MILEAGE - MUNICIPAL STATIONS</u>	52,061	22	2,334	2,859	2,891
Non-generating	11,022	-	440	182	195
Generating	41,059	22	1,894	2,677	2,696
Hydraulic	34,982	-	1,393	40	2,668
Fuel	6,057	22	501	2,657	28
<u>TOTAL POLE LINE MILEAGE - NON-GENERATING STATIONS</u>	16,484	11	906	455	440
<u>TOTAL POLE LINE MILEAGE - GENERATING STATIONS</u>	66,694	508	5,681	3,159	15,619
Hydraulic	57,150	25	2,486	300	15,579
Fuel	9,544	283	1,195	2,859	40

TABLE 10 - AUXILIARY PLANT EQUIPMENT, 1945

<u>TOTAL PRIMARY POWER</u>	H.P.	175,512	155	2,504	2,725	57,511
Per cent of total for Canada		100.00	0.08	1.44	1.57	21.55
Steam reciprocating engines	No.	22	1	3	2	1
Total capacity	H.P.	9,205	75	1,190	800	60
Steam turbines	No.	39	-	1	5	8
Total capacity	H.P.	154,909	-	670	1,925	56,224
Gas and oil engines	No.	50	1	7	-	5
Total capacity	H.P.	9,200	60	644	-	1,027
<u>TOTAL SECONDARY POWER</u>	Kv.A.	146,556	48	1,948	2,035	33,894
<u>COMMERCIAL STATIONS</u>						
<u>TOTAL PRIMARY POWER</u>	H.P.	85,866	155	2,264	2,725	3,675
Steam reciprocating engines	No.	15	1	3	2	1
Total capacity	H.P.	5,078	75	1,190	800	60
Steam turbines	No.	27	-	1	5	5
Total capacity	H.P.	75,530	-	670	1,925	5,500
Gas and oil engines	No.	29	1	4	-	5
Total capacity	H.P.	5,258	60	404	-	115
<u>TOTAL SECONDARY POWER</u>	Kv.A.	69,538	48	1,763	2,035	3,125
<u>MUNICIPAL STATIONS</u>						
<u>TOTAL PRIMARY POWER</u>	H.P.	87,446	-	240	-	33,656
Steam reciprocating engines	No.	7	-	-	-	-
Total capacity	H.P.	4,125	-	-	-	-
Steam turbines	No.	12	-	-	-	5
Total capacity	H.P.	79,379	-	-	-	32,724
Gas and oil engines	No.	21	-	5	-	2
Total capacity	H.P.	3,942	-	240	-	912
<u>TOTAL SECONDARY POWER</u>	Kv.A.	77,018	-	185	-	30,769

TABLEAU 9 - LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX, 1945

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
58,251	4,534	4,252	4,782	6,802	<u>LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX</u>
45.99	5.45	5.11	5.75	8.18	Pourcentage du total pour tout le Canada
2,865	747	-	31	63	Milles de pylones d'acier
85	8	-	-	-	Milles de poteaux d'acier
33,753	3,749	4,227	4,670	6,632	Milles de poteaux de bois
527	1	-	-	-	Milles de poteaux de ciment
1,025	54	25	81	107	Milles de cables souterrains et sous-marins
					<u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES COMMERCIALES</u>
2,004	1,415	1,805	3,843	5,599	Non-génératrices
346	221	657	65	3,180	Génératrices
1,658	1,194	1,148	5,778	2,419	Hydrauliques
1,652	1,121	-	2,769	2,337	A combustible
6	75	1,148	1,009	82	
					<u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES MUNICIPALES</u>
56,247	5,119	2,447	939	1,203	Non-génératrices
7,028	2,217	207	440	513	Génératrices
29,219	902	2,240	499	890	Hydrauliques
29,185	875	-	-	821	A combustible
34	27	2,240	499	69	
					<u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES NON-GENERATRICES</u>
7,574	2,438	864	505	5,493	
					<u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES GENERATRICES</u>
50,877	2,096	5,588	4,277	3,509	Hydrauliques
50,837	1,996	-	2,769	3,158	A combustible
40	100	5,588	1,508	151	

TABLEAU 10 - OUTILLAGE AUXILIAIRE, 1945

41,060	18,240	-	18,963	52,374	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P.
25.69	10.53	-	10.94	50.22	Pourcentage du total pour tout le Canada
4	1	-	7	5	Machines à vapeur, à mouvement alternatif Nomb.
1,600	1,750	-	2,755	975	Capacité totale H.P.
4	4	-	4	15	Turbines à vapeur H.P.
58,000	16,490	-	15,000	46,600	Capacité totale H.P.
4	-	-	7	26	Moteurs à gaz et à pétrole Nomb.
1,460	-	-	1,210	4,799	Capacité totale H.P.
					<u>TOTAL, FORCE MOTRICE SECONDAIRE</u> Kv.A.
55,509	16,870	-	16,662	41,790	
					<u>USINES COMMERCIALES</u>
9,960	-	-	18,963	48,144	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P.
-	-	-	7	1	Machines à vapeur, à mouvement alternatif Nomb.
-	-	-	2,755	200	Capacité totale H.P.
2	-	-	4	14	Turbines à vapeur H.P.
8,500	-	-	15,000	45,935	Capacité totale H.P.
4	-	-	7	10	Moteurs à gaz et à pétrole Nomb.
1,460	-	-	1,210	2,009	Capacité totale H.P.
					<u>TOTAL, FORCE MOTRICE SECONDAIRE</u> Kv.A.
7,094	-	-	16,662	38,811	
					<u>USINES MUNICIPALES</u>
51,100	18,240	-	-	4,230	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P.
4	1	-	-	2	Machines à vapeur, à mouvement alternatif Nomb.
1,600	1,750	-	-	775	Capacité totale H.P.
2	4	-	-	1	Turbines à vapeur H.P.
29,500	16,490	-	-	665	Capacité totale H.P.
-	-	-	-	16	Moteurs à gaz et à pétrole Nomb.
-	-	-	-	2,790	Capacité totale H.P.
					<u>TOTAL, FORCE MOTRICE SECONDAIRE</u> Kv.A.
26,215	16,870	-	-	2,979	

TABLE 11 - TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT, 1945

		Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
<u>TOTAL PRIMARY POWER</u>	H.P.	9,840,259	9,350	206,944	152,487	5,438,158	
Per cent of total for Canada		100.00	0.10	2.10	1.55	55.26	
Water wheels and turbines	No.	831	6	57	17	293	
Total capacity	H.P.	9,216,564	363	108,065	107,010	5,397,832	
Steam reciprocating engines	No.	48	1	4	6	3	
Total capacity	H.P.	17,750	75	2,990	2,880	165	
Steam turbines	No.	118	4	19	9	9	
Total capacity	H.P.	548,200	6,680	92,786	41,505	36,574	
Gas and oil engines	No.	560	13	22	8	13	
Total capacity	H.P.	57,765	2,232	3,103	1,292	3,787	
<u>TOTAL DYNAMO CAPACITY</u>	Kv.A.	8,182,325	6,993	171,170	150,397	4,607,366	
Per cent of total for Canada		100.00	0.09	2.09	1.59	56.31	
Dynamos, A.C.	No.	1,315	21	100	38	311	
Total capacity	Kv.A.	8,176,885	6,993	170,870	150,197	4,607,346	
Dynamos, D.C.	No.	216	-	1	1	1	
Total capacity	Kw.	5,440	-	300	200	20	
<u>COMMERCIAL STATIONS</u>							
<u>TOTAL PRIMARY POWER</u>	H.P.	6,379,987	7,565	117,989	112,555	4,369,677	
Water wheels and turbines	No.	492	6	18	11	217	
Total capacity	H.P.	6,098,240	363	26,020	94,150	4,365,672	
Steam reciprocating engines	No.	50	1	4	6	1	
Total capacity	H.P.	10,355	75	2,990	2,880	60	
Steam turbines	No.	67	4	15	5	4	
Total capacity	H.P.	240,940	6,680	86,845	14,925	3,650	
Gas and oil engines	No.	379	8	7	2	5	
Total capacity	H.P.	50,452	447	2,154	600	295	
<u>TOTAL DYNAMO CAPACITY</u>	Kv.A.	5,296,575	5,507	98,216	96,066	3,648,313	
Dynamos, A.C.	No.	768	16	43	22	221	
Total capacity	Kv.A.	5,292,975	5,507	97,916	95,866	3,648,293	
Dynamos, D.C.	No.	176	-	1	1	1	
Total capacity	Kw.	5,600	-	300	200	20	
<u>MUNICIPAL STATIONS</u>							
<u>TOTAL PRIMARY POWER</u>	H.P.	3,460,272	1,785	88,955	39,932	1,068,481	
Water Wheels and turbines	No.	359	-	39	6	76	
Total capacity	H.P.	3,118,524	-	82,045	12,860	1,052,160	
Steam reciprocating engines	No.	18	-	-	-	2	
Total capacity	H.P.	7,375	-	-	-	105	
Steam turbines	No.	51	-	4	4	5	
Total capacity	H.P.	307,260	-	5,941	26,380	32,724	
Gas and oil engines	No.	181	5	15	6	8	
Total capacity	H.P.	27,515	1,785	969	692	3,492	
<u>TOTAL DYNAMO CAPACITY</u>	Kv.A.	2,885,748	1,486	72,954	34,331	959,053	
Dynamos, A.C.	No.	547	5	57	16	90	
Total capacity	Kv.A.	2,885,908	1,486	72,954	34,331	959,053	
Dynamos, D.C.	No.	40	-	-	-	-	
Total capacity	Kw.	1,840	-	-	-	-	

TABLEAU 11 - OUTILLAGE GLOBAL, Y COMPRIS OUTILLAGE AUXILIAIRE, 1945

	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
2,551,620	530,054	169,253	222,800	779,593	<u>TOTAL FORCE MOTRICE PRIMAIRE</u>	H.P.
23.69	5.39	1.72	2.27	7.92	Pourcentage du total pour le Canada	
521	43	-	9	85	Turbines et roues hydrauliques	Nomb.
2,289,057	508,300	-	91,000	714,937	Capacité totale	H.P.
7	2	1	16	8	Machines à vapeur, à mouvement alternatif	Nomb.
1,720	1,770	750	5,936	1,444	Capacité totale	H.P.
4	6	26	21	20	Turbines à vapeur	Nomb.
38,000	17,740	144,510	117,065	53,940	Capacité totale	H.P.
16	28	250	137	73	Moteurs à gaz et à pétrole	Nomb.
2,843	2,244	24,195	8,799	9,272	Capacité totale	H.P.
1,874,258	427,506	142,919	186,321	635,413	<u>CAPACITE TOTALE DES DYNAMOS</u>	Kv.A.
22.91	5.22	1.75	2.28	7.75	Pourcentage du total pour le Canada	
544	75	138	108	180	Dynamos, C.A.	Nomb.
1,874,228	427,474	141,207	183,347	635,221	Capacité totale	Kv.A.
1	4	137	62	9	Dynamos, C.D.	Nomb.
10	32	1,712	2,974	192	Capacité totale	Kw.
					<u>USINES COMMERCIALES</u>	
482,010	554,524	59,487	122,485	753,695	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u>	H.P.
140	25	-	9	68	Turbines et roues hydrauliques	Nomb.
471,647	553,500	-	91,000	696,088	Capacité totale	H.P.
1	1	-	12	4	Machines à vapeur, à mouvement alternatif	Nomb.
15	20	-	3,701	614	Capacité totale	H.P.
2	-	12	6	19	Turbines à vapeur	Nomb.
8,500	-	46,765	20,500	53,275	Capacité totale	H.P.
8	18	178	120	33	Moteurs à gaz et à pétrole	Nomb.
1,848	1,204	12,722	7,484	3,718	Capacité totale	H.P.
406,684	279,085	48,840	98,246	615,618	<u>CAPACITE TOTALE DES DYNAMOS</u>	Kv.A.
149	41	76	81	119	Dynamos, C.A.	Nomb.
406,674	279,079	47,722	96,472	615,446	Capacité totale	Kv.A.
1	1	107	56	8	Dynamos, C.D.	Nomb.
10	6	1,118	1,774	172	Capacité totale	Kw.
					<u>USINES MUNICIPALES</u>	
1,849,610	175,550	109,766	100,515	25,898	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u>	H.P.
181	20	-	-	17	Turbines et roues hydrauliques	Nomb.
1,817,410	155,000	-	-	18,849	Capacité totale	H.P.
6	1	1	4	4	Machines à vapeur, à mouvement alternatif	Nomb.
1,705	1,750	750	2,235	850	Capacité totale	H.P.
2	6	14	15	1	Turbines à vapeur	Nomb.
29,500	17,740	97,545	96,765	665	Capacité totale	H.P.
8	10	72	17	40	Moteurs à gaz et à pétrole	Nomb.
995	1,040	11,471	1,315	5,554	Capacité totale	H.P.
1,467,554	148,421	94,079	88,075	19,795	<u>CAPACITE TOTALE DES DYNAMOS</u>	Kv.A.
195	34	62	27	61	Dynamos, C.A.	Nomb.
1,467,554	148,595	93,485	86,875	19,775	Capacité totale	Kv.A.
-	3	50	6	1	Dynamos, C.D.	Nomb.
-	26	594	1,200	20	Capacité totale	Kw.

TABLE 12 - MAIN PLANT EQUIPMENT, 1945

		Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
TOTAL PRIMARY POWER	H.P.	9,666,947	9,215	204,440	149,762	5,400,847
Per cent of total for Canada		100.00	0.10	2.11	1.55	55.87
Water Wheels and turbines	No.	831	6	57	17	293
Total capacity	H.P.	9,216,564	363	108,065	107,010	5,597,832
Steam reciprocating engines	No.	26	-	1	4	2
Total capacity	H.P.	8,527	-	1,800	2,080	105
Steam turbines	No.	79	4	18	6	1
Total capacity	H.P.	393,291	6,680	92,116	59,580	150
Gas and oil engines	No.	510	12	15	8	8
Total capacity	H.P.	48,565	2,172	2,459	1,292	2,760
TOTAL DYNAMO CAPACITY	Kv.A.	8,035,767	6,945	169,222	128,362	4,573,472
Per cent of total for Canada		100.00	0.09	2.10	1.60	56.91
Dynamos, A.C.	No.	1,217	20	91	33	301
Total capacity	Kv.A.	8,031,727	6,945	169,222	128,162	4,573,452
Dynamos, D.C.	No.	213	-	-	1	1
Total capacity	Kw.	4,040	-	-	200	20
COMMERCIAL STATIONS						
TOTAL PRIMARY POWER	H.P.	6,294,121	7,450	115,725	109,830	4,366,002
Per cent of total for Canada		100.00	0.12	1.84	1.74	69.37
Water Wheels and turbines	No.	275	6	18	11	217
Total capacity	H.P.	6,098,240	563	26,020	24,150	4,365,672
Steam reciprocating engines	No.	15	-	1	4	-
Total capacity	H.P.	5,277	-	1,800	2,080	-
Steam turbines	No.	40	4	14	2	1
Total capacity	H.P.	165,410	6,680	86,175	15,000	150
Gas and oil engines	No.	350	7	5	2	2
Total capacity	H.P.	25,194	587	1,750	600	180
TOTAL DYNAMO CAPACITY	Kv.A.	5,227,037	5,459	96,455	94,051	3,645,188
Per cent of total for Canada		100.00	0.10	1.85	1.60	69.74
Dynamos, A.C.	No.	709	15	37	17	218
Total capacity	Kv.A.	5,224,837	5,459	96,455	93,851	3,645,168
Dynamos, D.C.	No.	173	-	-	1	1
Total capacity	Kw.	2,200	-	-	200	20
MUNICIPAL STATIONS						
TOTAL PRIMARY POWER	H.P.	3,372,826	1,785	88,715	39,932	1,034,845
Per cent of total for Canada		100.00	0.05	2.63	1.18	30.68
Water Wheels and turbines	No.	339	-	39	6	76
Total capacity	H.P.	3,118,324	-	82,045	12,860	1,032,160
Steam reciprocating engines	No.	11	-	-	-	2
Total capacity	H.P.	3,250	-	-	-	105
Steam turbines	No.	59	-	4	4	-
Total capacity	H.P.	227,881	-	5,941	26,380	-
Gas and oil engines	No.	160	5	12	6	6
Total capacity	H.P.	23,371	1,785	729	692	2,580
TOTAL DYNAMO CAPACITY	Kv.A.	2,808,730	1,486	72,769	34,351	928,284
Per cent of total for Canada		100.00	0.05	2.59	1.22	55.05
Dynamos, A.C.	No.	502	5	54	10	83
Total capacity	Kv.A.	2,806,890	1,486	72,769	34,351	928,284
Dynamos, D.C.	No.	40	-	-	-	-
Total capacity	Kw.	1,840	-	-	-	-
HYDRAULIC STATIONS						
TOTAL DYNAMO CAPACITY	Kv.A.	7,651,403	538	87,146	92,258	4,570,953
Per cent of total for Canada		100.00	0.04	1.15	1.20	59.74
Dynamos, A.C.	No.	826	5	57	16	291
Total capacity	Kv.A.	7,651,113	538	87,146	92,038	4,570,933
Dynamos, D.C.	No.	4	-	-	1	1
Total capacity	Kw.	290	-	-	200	20
FUEL STATIONS						
TOTAL DYNAMO CAPACITY	Kv.A.	584,564	6,607	82,076	36,124	2,519
Per cent of total for Canada		100.00	1.72	21.35	9.40	0.66
Dynamos, A.C.	No.	391	15	54	17	10
Total capacity	Kv.A.	380,614	6,607	82,076	36,124	2,519
Dynamos, D.C.	No.	209	-	-	-	-
Total capacity	Kw.	3,750	-	-	-	-

x - Capacity of one hydraulic station in Saskatchewan included in Manitoba.

TABLEAU 12 - OUTILLAGE DES USINES PRINCIPALES, 1945

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
2,290,560	x 511,814	x 169,253	203,837	727,219	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P.
23.70	5.29	1.75	2.11	7.52	Pourcentage du total pour le Canada
321	43	-	9	85	Roues hydrauliques et turbines Nomb.
2,289,057	508,300	-	91,000	714,937	Capacité totale H.P.
3	1	1	9	5	Machines à vapeur, à mouvement alternatif Nomb.
120	20	750	3,185	469	Capacité totale H.P.
-	2	26	17	5	Turbines à vapeur Nomb.
-	1,250	144,310	102,065	7,340	Capacité totale H.P.
12	28	250	150	47	Moteurs à gaz et à pétrole Nomb.
1,583	2,244	24,193	7,589	4,475	Capacité totale H.P.
1,840,929	410,656	142,919	169,659	593,625	<u>CAPACITE DES DYNAMOS</u> Kv.A.
22.91	5.11	1.78	2.11	7.39	Pourcentage du total pour le Canada
554	70	158	92	158	Dynamos, C.A. Nomb.
1,840,919	410,604	141,207	167,785	593,431	Capacité totale Kv.A.
1	4	137	60	9	Dynamos, C.D. Nomb.
10	32	1,712	1,874	192	Capacité totale Kw.
					<u>USINES COMMERCIALES</u>
472,050	554,524	59,487	103,522	705,551	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P.
7.50	5.63	0.95	1.64	11.21	Pourcentage du total pour le Canada
140	25	-	9	68	Turbines et roues hydrauliques Nomb.
471,647	553,500	-	91,000	696,088	Capacité totale H.P.
1	1	-	5	3	Machines à vapeur, à mouvement alternatif Nomb.
15	20	-	948	414	Capacité totale H.P.
-	-	12	2	5	Turbines à vapeur Nomb.
-	-	46,765	5,500	7,340	Capacité totale H.P.
4	18	178	113	23	Moteurs à gaz et à pétrole Nomb.
388	1,204	12,722	6,274	1,709	Capacité totale H.P.
399,590	279,085	48,840	81,584	576,807	<u>CAPACITE DES DYNAMOS</u> Kv.A.
7.64	5.54	0.95	1.56	11.04	Pourcentage du total pour le Canada
145	41	76	65	95	Dynamos, C.A. Nomb.
399,580	279,079	47,722	80,910	576,635	Capacité totale Kv.A.
1	1	107	54	8	Dynamos, C.D. Nomb.
10	6	1,118	674	172	Capacité totale Kw.
					<u>USINES MUNICIPALES</u>
1,818,510	157,290	109,766	100,315	21,668	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P.
53.92	4.66	5.26	2.98	0.64	Pourcentage du total pour le Canada
181	20	-	-	17	Turbines et roues hydrauliques Nomb.
1,817,410	155,000	-	-	18,849	Capacité totale H.P.
2	-	1	4	2	Machines à vapeur, à mouvement alternatif Nomb.
105	-	750	2,255	55	Capacité totale H.P.
-	2	14	15	-	Turbines à vapeur Nomb.
-	1,250	97,545	96,765	-	Capacité totale H.P.
8	10	72	17	24	Moteurs à gaz et à pétrole Nomb.
995	1,040	11,471	1,315	2,764	Capacité totale H.P.
1,441,559	151,551	94,079	88,075	16,816	<u>CAPACITE DES DYNAMOS</u> Kv.A.
51.32	4.68	3.35	3.14	0.60	Pourcentage du total pour le Canada
189	29	62	27	45	Dynamos, C.A. Nomb.
1,441,339	151,525	93,485	86,875	16,796	Capacité totale Kv.A.
-	5	50	6	1	Dynamos, C.D. Nomb.
-	26	594	1,200	20	Capacité totale Kw.
					<u>USINES HYDRAULIQUES</u>
1,839,742	407,600	-	71,500	581,886	<u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A.
24.04	5.32	-	0.95	7.60	Pourcentage du total pour le Canada
520	43	-	9	85	Dynamos, C.A. Nomb.
1,839,742	407,600	-	71,500	581,816	Capacité totale Kv.A.
-	-	-	-	2	Dynamos, C.D. Nomb.
-	-	-	-	70	Capacité totale Kw.
					<u>USINES A COMBUSTIBLE</u>
1,187	5,056	142,919	98,159	11,737	<u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A.
0.51	0.79	37.18	25.54	3.05	Pourcentage du total pour le Canada
14	27	158	83	53	Dynamos, C.A. Nomb.
1,177	3,004	141,207	96,285	11,615	Capacité totale Kv.A.
1	4	157	60	7	Dynamos, C.D. Nomb.
10	32	1,712	1,874	122	Capacité totale Kw.

x - Rendement maximum d'une usine hydraulique de la Saskatchewan inclus dans le Manitoba.

TABLE 15 - MAIN PLANT EQUIPMENT CLASSIFIED, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	
<u>PRIMARY POWER</u>	H.P.						
Water wheels and turbines	No.	851	6	57	17	293	521
	Total H.P.	9,216,564	363	108,065	107,010	5,397,852	2,289,057
Under 500 H.P.	No.	125	6	18	2	50	47
	Total H.P.	26,739	363	4,575	710	6,288	10,857
500 - 2,000 H.P.	No.	208	-	20	4	61	112
	Total H.P.	225,629	-	21,100	5,800	63,844	121,865
2,000 - 5,000 H.P.	No.	125	-	12	6	55	52
	Total H.P.	366,371	-	41,590	17,500	99,000	144,335
5,000 - 10,000 H.P.	No.	109	-	7	1	53	51
	Total H.P.	718,525	-	41,000	5,000	233,400	198,500
10,000 - 15,000 H.P.	No.	85	-	-	-	28	46
	Total H.P.	960,900	-	-	-	501,900	550,200
15,000 - 25,000 H.P.	No.	59	-	-	4	20	12
	Total H.P.	1,110,500	-	-	80,000	408,500	201,500
25,000 - 50,000 H.P.	No.	78	-	-	-	57	6
	Total H.P.	2,746,900	-	-	-	2,115,900	168,000
50,000 H.P. and up	No.	44	-	-	-	29	15
	Total H.P.	5,063,000	-	-	-	2,169,000	894,000
<u>Steam reciprocating engines</u>	No.	26	-	1	4	2	5
	Total H.P.	8,527	-	1,800	2,080	105	120
Under 500 H.P.	No.	20	-	-	2	2	3
	Total H.P.	2,617	-	-	280	105	120
500 H.P. and up	No.	6	-	1	2	-	-
	Total H.P.	5,910	-	1,800	1,800	-	-
<u>Steam turbines</u>	No.	79	4	18	6	1	-
	Total H.P.	595,291	6,680	92,116	39,580	150	-
Under 500 H.P.	No.	5	-	1	-	1	-
	Total H.P.	1,352	-	360	-	150	-
500 - 2,000 H.P.	No.	19	3	2	-	-	-
	Total H.P.	21,999	4,180	2,256	-	-	-
2,000 - 5,000 H.P.	No.	29	1	8	5	-	-
	Total H.P.	88,721	2,500	24,125	11,000	-	-
5,000 - 10,000 H.P. and up	No.	26	-	7	5	-	-
	Total H.P.	281,219	-	65,575	28,580	-	-
<u>Gas and oil engines</u>	No.	510	12	15	8	8	12
	Total H.P.	48,565	2,172	2,459	1,292	2,760	1,585
<u>SECONDARY POWER</u>							
DYNAMOS, A.C. and D.C.	No.	1,450	20	91	34	502	355
	Total Kv.A.	8,055,767	6,945	169,222	128,362	4,573,472	1,840,929
DYNAMOS, A.C.	No.	1,217	20	91	33	301	354
	Total Kv.A.	8,051,727	6,945	169,222	128,162	4,573,452	1,840,919
Under 50 Kv.A.	No.	120	5	8	-	4	6
	Total Kv.A.	3,412	136	218	-	159	198
50 - 200 Kv.A.	No.	195	6	11	9	17	32
	Total Kv.A.	21,054	493	1,211	1,052	1,692	4,007
200 - 500 Kv.A.	No.	145	5	16	2	26	59
	Total Kv.A.	44,690	1,486	4,988	675	9,206	12,327
500 - 1,000 Kv.A.	No.	133	1	14	5	58	59
	Total Kv.A.	94,169	625	9,395	2,250	27,600	41,870
1,000 - 5,000 Kv.A.	No.	269	3	35	12	53	102
	Total Kv.A.	650,858	4,205	88,735	29,475	114,608	215,385
5,000 - 10,000 Kv.A.	No.	113	-	8	5	25	45
	Total Kv.A.	796,752	-	52,175	24,710	166,020	343,592
10,000 - 15,000 Kv.A.	No.	74	-	1	-	32	25
	Total Kv.A.	802,525	-	12,500	-	553,660	267,040
15,000 - 25,000 Kv.A.	No.	66	-	-	4	23	9
	Total Kv.A.	1,252,750	-	-	70,000	454,250	169,000
25,000 - 50,000 Kv.A.	No.	85	-	-	-	67	12
	Total Kv.A.	5,053,757	-	-	-	2,566,257	515,500
50,000 Kv.A. and up	No.	21	-	-	-	16	5
	Total Kv.A.	1,372,000	-	-	-	1,100,000	272,000
<u>DYNAMOS, D.C.</u>	No.	213	-	-	1	1	1
	Total Kw.	4,040	-	-	200	20	10
Under 50 Kw.	No.	207	-	-	-	1	1
	Total Kw.	2,427	-	-	-	20	10
50 - 200 Kw.	No.	3	-	-	-	-	-
	Total Kw.	265	-	-	-	-	-
200 - 500 Kw.	No.	2	-	-	1	-	-
	Total Kw.	600	-	-	200	-	-
500 Kw. and up	No.	1	-	-	-	-	-
	Total Kw.	750	-	-	-	-	-

TABLEAU 13 - OUTILLAGE CLASSIFIÉ DES USINES PRINCIPALES, 1945

Manitoba	Saskat-chewan	Alberta	British Columbia and Yukon	Commercial	Municipal	
511,814	169,255	203,857	727,219	6,294,121	5,372,826	<u>FORCE MOTRICE PRIMAIRE</u> H.P.
43	-	9	85	492	339	Turbines et roues hydrauliques Nomb.
508,500	-	91,000	714,937	6,098,240	5,118,324	Total H.P.
-	-	-	22	77	48	Moins de 500 H.P. Nomb.
-	-	-	5,946	14,810	11,929	Total H.P.
-	-	-	11	112	96	500 - 2,000 H.P. Nomb.
-	-	-	15,020	113,384	110,245	Total H.P.
4	-	2	14	71	54	2,000 - 5,000 H.P. Nomb.
12,800	-	8,000	43,346	211,021	155,350	Total H.P.
21	-	4	12	63	46	5,000 - 10,000 H.P. Nomb.
150,000	-	24,000	86,825	428,325	290,200	Total H.P.
4	-	-	5	37	46	10,000 - 15,000 H.P. Nomb.
50,000	-	-	58,800	410,800	550,100	Total H.P.
8	-	3	12	44	15	15,000 - 25,000 H.P. Nomb.
147,500	-	58,000	214,000	861,000	249,500	Total H.P.
6	-	-	9	72	6	25,000 - 50,000 H.P. Nomb.
168,000	-	-	295,000	2,578,900	168,000	Total H.P.
-	-	-	-	16	28	50,000 et plus H.P. Nomb.
-	-	-	-	1,480,000	1,583,000	Total H.P.
1	1	9	5	15	11	<u>Machines à vapeur, à mouvement alternatif</u> Nomb.
20	750	3,185	469	5,277	3,250	Total H.P.
1	-	7	5	12	8	Moins de 500 H.P. Nomb.
20	-	1,625	469	1,677	940	Total H.P.
-	1	2	-	3	5	500 H.P. et plus Nomb.
-	750	1,560	-	3,600	2,310	Total H.P.
2	26	17	5	40	39	<u>Turbines à vapeur</u> Nomb.
1,250	144,510	102,065	7,340	165,410	227,881	Total H.P.
1	1	1	-	1	4	Moins de 500 H.P. Nomb.
400	267	175	-	150	1,202	Total H.P.
1	7	2	4	11	8	500 - 2,000 H.P. Nomb.
850	8,373	2,000	4,340	13,723	8,276	Total H.P.
-	9	7	1	17	12	2,000 - 5,000 H.P. Nomb.
-	26,296	21,800	5,000	47,896	40,825	Total H.P.
-	9	7	-	11	15	5,000 - 10,000 H.P. Nomb.
-	109,374	78,090	-	103,641	177,578	Total H.P.
28	250	130	47	550	160	<u>Moteurs à gaz et à pétrole</u> Nomb.
2,244	24,193	7,589	4,475	25,194	23,371	Total H.P.
						<u>FORCE MOTRICE SECONDAIRE</u>
74	275	152	147	882	548	DYNAMOS, C.A. & C.D. Nomb.
410,656	142,919	169,659	595,625	5,227,037	2,808,730	Total Kv.A.
70	138	92	158	709	508	DYNAMOS, C.A. Nomb.
410,604	141,207	167,785	593,451	5,224,837	2,806,890	Total Kv.A.
15	34	30	18	79	41	Moins de 50 Kv.A. Nomb.
581	1,058	816	466	2,294	1,118	Total Kv.A.
7	42	30	41	119	76	50 - 200 Kv.A. Nomb.
622	4,614	3,214	4,129	12,510	8,524	Total Kv.A.
4	33	6	12	67	76	200 - 500 Kv.A. Nomb.
1,220	9,989	1,450	3,549	20,580	24,110	Total Kv.A.
1	6	2	9	75	58	500 - 1,000 Kv.A. Nomb.
761	3,886	1,500	6,262	51,145	45,024	Total Kv.A.
14	15	15	22	148	121	1,000 - 5,000 Kv.A. Nomb.
46,350	34,180	44,000	55,900	349,853	281,005	Total Kv.A.
11	4	5	14	66	47	5,000 - 10,000 Kv.A. Nomb.
70,750	25,000	16,805	97,700	465,625	331,127	Total Kv.A.
7	2	1	6	31	43	10,000 - 15,000 Kv.A. Nomb.
76,000	25,000	12,500	75,625	563,725	438,600	Total Kv.A.
11	2	5	12	50	16	15,000 - 25,000 Kv.A. Nomb.
214,500	37,500	87,500	200,000	943,750	289,000	Total Kv.A.
-	-	-	4	58	25	25,000 - 50,000 Kv.A. Nomb.
-	-	-	152,000	1,915,375	1,118,582	Total Kv.A.
-	-	-	-	1,100,000	272,000	50,000 Kv.A. et plus Nomb.
-	-	-	-	-	-	Total Kv.A.
4	157	60	9	173	40	DYNAMOS, C.D. Nomb.
52	1,712	1,874	192	2,200	1,840	Total Kv.
4	135	57	9	171	36	Moins de 50 Kw. Nomb.
52	1,542	651	192	1,907	520	Total Kv.
-	2	1	-	1	2	50 - 200 Kw. Nomb.
-	170	93	-	95	170	Total Kv.
-	-	1	-	1	1	200 - 500 Kw. Nomb.
-	-	400	-	200	400	Total Kv.
-	-	1	-	-	1	500 Kw. et plus Nomb.
-	-	750	-	-	750	Total Kv.

TABLE 14 - ELECTRIC ENERGY GENERATED, 1945

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
<u>ALL STATIONS</u>						
Total Kilowatt hours generated(thousands)	40,130,054	16,753	600,429	598,700	22,227,012	
Per cent of total for Canada	100.00	0.04	1.50	1.49	55.59	
Kilowatt hours generated by non-generating stations(thousands)	532	-	1	-	-	
Kilowatt hours generated by generating stations(thousands)	40,129,522	16,753	600,428	598,700	22,227,012	
K.v.A. capacity of generating stations	8,161,146	6,995	169,372	128,362	4,597,366	
Ratio of output to maximum capacity p.c.	56.13	27.55	40.47	53.24	55.19	
Average kilowatt hours per Kv.A.	4,917	2,596	3,545	4,664	4,835	
<u>GENERATING STATIONS</u>						
<u>COMMERCIAL STATIONS</u>						
TOTAL						
Kilowatt hours generated(thousands)	26,530,506	12,528	340,648	477,258	17,670,515	
Kv.A. capacity	5,290,168	5,507	98,603	94,031	5,648,515	
Ratio of output to maximum capacity p.c.	55.09	25.55	40.25	57.95	55.29	
Average kilowatt hours per Kv.A.	4,826	2,258	5,526	5,076	4,843	
<u>Hydraulic Stations</u>						
Kilowatt hours generated(thousands)	25,125,474	470	114,109	442,025	17,669,672	
Kv.A. capacity	5,126,236	386	19,888	81,975	3,648,041	
Ratio of output to maximum capacity p.c.	55.95	18.90	65.50	61.55	55.50	
Average kilowatt hours per Kv.A.	4,901	1,218	5,738	5,592	4,844	
<u>Fuel Stations</u>						
Kilowatt hours generated(thousands)	405,032	11,856	226,539	55,233	641	
Kv.A. capacity	165,932	5,121	76,715	12,056	272	
Ratio of output to maximum capacity p.c.	28.21	26.43	35.71	33.36	26.91	
Average kilowatt hours per Kv.A.	2,471	2,315	2,953	2,922	2,557	
<u>MUNICIPAL STATIONS</u>						
TOTAL						
Kilowatt hours generated(thousands)	14,599,016	4,427	259,780	121,442	4,556,699	
Kv.A. capacity	2,870,978	1,486	72,769	54,351	949,053	
Ratio of output to maximum capacity p.c.	58.05	34.01	40.75	40.88	54.81	
Average kilowatt hours per Kv.A.	5,085	2,979	5,570	5,557	4,801	
<u>Hydraulic stations</u>						
Kilowatt hours generated(thousands)	14,094,661	-	245,186	50,766	4,550,158	
Kv.A. capacity	2,650,546	-	67,408	10,263	946,806	
Ratio of output to maximum capacity p.c.	60.71	-	41.19	34.24	54.86	
Average kilowatt hours per Kv.A.	5,318	-	3,608	2,999	4,806	
<u>Fuel Stations</u>						
Kilowatt hours generated(thousands)	504,355	4,427	16,594	90,676	6,541	
Kv.A. capacity	220,432	1,486	5,561	24,068	2,247	
Ratio of output to maximum capacity p.c.	26.12	34.01	35.33	43.00	33.23	
Average kilowatt hours per Kv.A.	2,288	2,979	3,095	3,767	2,911	
<u>TOTAL HYDRAULIC STATIONS</u>						
Kilowatt hours generated(thousands)	39,220,135	470	357,295	472,791	22,219,850	
Kv.A. capacity	7,776,782	386	87,296	92,258	4,594,847	
Ratio of output to maximum capacity p.c.	57.57	18.90	46.72	58.52	55.21	
Average kilowatt hours per Kv.A.	5,043	1,218	4,093	5,126	4,856	
Kilowatt hours generated by water power(thousands)	39,151,020	470	357,290	472,790	22,219,679	
Kilowatt hours generated by auxiliary plants(thousands)	89,115	-	5	1	151	
<u>TOTAL FUEL STATIONS</u>						
Kilowatt hours generated(thousands)	909,387	16,285	243,133	125,909	7,182	
Kv.A. capacity	384,364	6,607	82,076	56,124	2,619	
Ratio of output to maximum capacity p.c.	27.01	28.13	33.81	39.78	32.55	
Average kilowatt hours per Kv.A.	2,366	2,464	2,962	3,485	2,851	
<u>CONSUMPTION OF ELECTRIC ENERGY</u> (Thousands of Kilowatt Hours)						
Total kilowatt hours generated	40,130,054	16,753	600,429	598,700	22,227,012	
Kilowatt hours imported from the United States	15,916	-	-	8	296	
Kilowatt hours imported from other provinces	-	-	-	7,567	11,555	
Kilowatt hours exported to the United States	2,646,435	-	-	47,867	2,463	
Kilowatt hours exported to other provinces	-	-	-	-	4,965,541	
<u>KILOWATT HOURS FOR CONSUMPTION IN CANADA</u>(thousands)						
Domestic service	37,499,535	16,753	600,429	558,608	17,270,859	
Commercial light	3,565,498	5,217	70,099	45,958	507,274	
Small power	1,613,735	3,327	47,167	31,030	396,246	
Large power	640,674	1,429	64,664	13,825	136,578	
Street lighting	28,083,248	4,410	337,234	433,778	14,741,790	
Free service (other than street lighting)	226,218	406	5,899	4,781	43,384	
Losses	64,327	66	205	187	50,351	
	3,505,837	1,898	75,161	29,049	1,395,236	

* Excludes exports to other provinces and/or to the United States.

TABLEAU 14 - ENERGIE ELECTRIQUE GENEREE, 1946

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia & Yukon	
10,736,742 26.76	2,283,789 5.69	249,518 0.62	566,744 1.41	2,850,367 7.10	<u>TOUTES USINES</u> Total kw. heure générés (milliers) Pourcentage du total pour le Canada
10,756,523 1,871,929 65.48 5,736	2,283,609 424,586 61.43 5,581	249,518 142,919 19.93 1,746	566,744 186,321 34.73 3,042	2,850,235 633,498 51.56 4,499	Kilowatt-heure générés par les usines non-génératrices (milliers) Kilowatt-heure générés par les usines génératrices (milliers) Capacité des usines génératrices en Kv.A. Proportion de la production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
2,200,120 405,590 61.92 5,424	1,599,291 279,085 65.41 5,730	82,992 48,840 19.39 1,699	552,794 98,246 40.99 3,591	2,794,764 615,953 51.96 4,552	<u>USINES GENERATRICES</u> <u>USINES COMMERCIALES</u> <u>TOTAL</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de la production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
2,199,808 405,250 61.96 5,428	1,597,916 278,100 65.59 5,746	- -	551,115 88,162 42.88 3,756	2,770,359 604,434 52.32 4,585	<u>Usines Hydrauliques</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
512 340 10.48 918	1,375 985 15.94 1,596	82,992 48,840 19.39 1,699	21,679 10,084 24.54 2,150	24,405 9,519 29.27 2,564	<u>Usines à combustible</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
8,536,403 1,466,339 66.46 5,822	684,518 145,301 53.77 4,710	166,526 94,079 20.21 1,770	215,950 88,075 27.73 2,429	55,471 19,545 32.40 2,838	<u>USINES MUNICIPALES</u> <u>TOTAL</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de la production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
8,534,973 1,465,492 66.48 5,824	683,085 143,250 54.43 4,768	- - - -	- - - -	52,493 17,327 34.58 3,029	<u>Usines Hydrauliques</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
1,430 847 19.27 1,688	1,233 2,051 6.86 601	166,526 94,079 20.21 1,770	215,950 88,075 27.73 2,429	2,978 2,218 15.37 1,346	<u>Usines à combustible</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de la production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
10,734,781 1,870,742 65.50 5,738 10,733,989 792	2,281,001 421,350 61.79 5,413 2,280,969 32	- - - - -	351,115 88,162 42.88 3,756 305,047 26,068	2,822,852 621,761 51.83 4,540 2,760,786 62,066	<u>TOUTES USINES HYDRAULIQUES</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de la production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A. Kilowatt-heure générés par force motrice hydraulique (milliers) Kilowatt-heure générés par les usines auxiliaires (milliers)
1,742 1,187 16.75 1,467	2,608 3,036 9.81 859	249,518 142,919 19.95 1,746	235,629 98,159 27.40 2,400	27,385 11,737 26.63 2,353	<u>TOUTES USINES A COMBUSTIBLE</u> Kilowatt-heure générés (milliers) Capacité en Kv.A. Proportion de la production à la capacité maximum p.c. Moyenne de kilowatt-heure par Kv.A.
10,756,742 - 4,957,974 2,594,606 11,555	2,283,789 261 - 1,399 -	249,518 44 - - -	566,744 117 13,859 - -	2,850,367 15,190 - 300 13,859	<u>CONSOMMATION D'ENERGIE ELECTRIQUE</u> (En Milliers de Kw.H.) Total de kilowatt-heure générés Kilowatt-heure importés des Etats-Unis Kilowatt-heure importés d'autres provinces Kilowatt-heure exportés aux Etats-Unis Kilowatt-heure exportés à d'autres provinces
13,088,555 1,963,044 764,144 260,140 8,682,687 108,975 2,394 1,307,171	2,282,651 416,499 114,294 62,715 1,405,260 21,524 38 262,521	249,562 58,402 44,935 35,595 79,176 8,618 61 24,777	580,720 63,962 63,450 51,375 533,383 10,066 2,895 74,091	2,851,598 235,043 149,142 36,355 2,065,530 22,165 8,152 335,033	<u>KILOWATT-HEURE CONSOMMÉS AU CANADA</u> (milliers) Service domestique Eclairage commercial Petite force motrice Grosse force motrice Eclairage des rues Service gratuit (autre que l'éclairage des rues) Pertes

Exclus les exportations par d'autres provinces et/ou aux Etats-Unis.

TABLE 15 - FUEL, 1945

	Bituminous Coal			
	Charbon Bitumineux			
	Canadian - Canadien		Imported - Importé	
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	Tons Tonnes	\$	Tons Tonnes	\$
CANADA	543,646	2,756,465	660	5,030
Prince Edward Island	15,152	130,807	-	-
Nova Scotia	224,433	1,210,053	-	-
New Brunswick	109,343	685,455	-	-
Quebec	259	2,370	400	2,560
Ontario	280	2,287	260	2,470
Manitoba	1,790	6,278	-	-
Saskatchewan	112,577	444,105	-	-
Alberta	43,699	56,794	-	-
British Columbia and Yukon ..	56,113	218,536	-	-
Fuel Oil and Diesel Oil				
Mazout et huile diesel				
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	Gal. Gal.	\$	Cords Cordes	\$
CANADA	19,180,500	1,317,424	473	2,431
Prince Edward Island	397,578	40,459	-	-
Nova Scotia	246,952	26,459	-	-
New Brunswick	230,088	21,615	-	-
Quebec	481,097	48,520	200	900
Ontario	229,548	36,650	-	-
Manitoba	253,034	39,437	273	1,531
Saskatchewan	12,598,638	694,696	-	-
Alberta	727,654	103,879	-	-
British Columbia and Yukon ..	4,015,911	305,709	-	-

Note: Tons = 2,000 lbs.
Gallons = Imperial
Cords = 128 cu. ft.

TABLEAU 15 - COMBUSTIBLE, 1945

Lignite Coal Charbon Lignite		Gasolene Gasoline		Kerosene Kérosène	
Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
Tons Tonnes	\$	Gal. Gal.	\$	Gal. Gal.	\$
251,065	664,649	46,548	12,539	6,870	1,412
-	-	935	214	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	350	88	-	-
-	-	50	9	-	-
-	-	343	106	-	-
59,982	102,366	17,152	4,912	50	15
191,083	562,283	11,983	3,008	3,895	790
-	-	15,755	4,202	2,925	607
Manufactured Gas Gaz fabriqué		Natural Gas Gaz naturel		Other Fuel Autre combustible	Total
Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Value Valeur	Value Valeur
1,000 cu.ft. 1,000 pds.cu.	\$	1,000 cu.ft. 1,000 pds.cu.	\$	\$	\$
9,656,576	162,876	2,001,574	158,016	57,919	5,098,761
-	-	-	-	-	171,480
9,634,116	162,328	-	-	279	1,599,099
-	-	-	-	-	707,070
-	-	-	-	-	54,458
-	-	-	-	-	41,416
-	-	-	-	5,195	52,547
-	-	-	-	-	1,246,094
2,460	548	2,001,574	158,016	-	865,518
-	-	-	-	52,445	561,299

Note: Tonne = 2,000 livres.
 Gallon = Impérial
 Corde = 128 pds.cu.

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