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CANADA
DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY 1922

CENTRAL ELECTRIC STATIONS IN CANADA

(Prepared in collaboration with the Dominion Water Power Branch, Department of the Interior, with the assistance of the Ontario Hydro-Electric Power Commission, the Quebec Streams Commission, The New-Brunswick Electric Power Commission, The Nova Scotia Power Commission and the Manitoba Power Commission.)

Published by authority of the Hon. Thos. A. Low, M.P., Minister of Trade and Commerce



OTTAWA
F. A. ACLAND
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1924

Price, 25 cents

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CENSUS OF INDUSTRY, 1922

CENTRAL ELECTRIC STATIONS

Preface

The sixth annual report on the Central Electric Station Industry of Canada has been compiled by authority of the Statistics Act, 1918 (8-9 George V, Chapter 43), under the direction of Mr. G. S. Wrong, B.Sc., of the Dominion Bureau of Statistics.

The Electricity and Gas Inspection Service Branch, Department of Trade and Commerce; the Dominion Water Power Branch, Department of the Interior; the Hydro-Electric Power Commission of Ontario; and other provincial departments and commissions have assisted in the collection of the schedules. Under the co-operative arrangement between the Bureau and the Dominion Water Power Branch, the schedules and report have been checked, under the direction of Mr. J. T. Johnston, Assistant Director, by Mr. Alexander Roger, Engineer of the Dominion Water Power Branch. The cordial thanks of the Bureau are tendered to the several departments co-operating as above and to the managers of the Central Electric Stations for their promptness in supplying the data.

R. H. COATS,
Dominion Statistician.

DOMINION BUREAU OF STATISTICS,
OTTAWA, March 10, 1924.

NOTE ON CANADIAN WATER-POWERS

Canada is richly endowed with water-power resources. Practically every large industrial centre throughout the Dominion is now served with hydro-electric energy and has within easy transmission distance ample reserves of water-power. In both the central electric station and pulp and paper industries of Canada hydraulic energy furnishes more than 90 per cent of the prime motive power employed.

The administration of the water resources of the Dominion is a divided federal and provincial responsibility. The Department of Railways and Canals is responsible for water and storage projects incidental to canalization schemes and the Department of Public Works, being responsible for the protection of navigation throughout Canada, is directly concerned with power and storage projects on all navigable bodies of water. In Alberta, Saskatchewan, Manitoba, and the Yukon and Northwest Territories, control is vested in the Department of the Interior, Dominion Water-Power Branch. Throughout the remainder of Canada, administration is carried out by the following respective provincial authorities: British Columbia, Department of Lands; Ontario, Department of Lands and Forests; Quebec, Department of Lands and Forests; Nova Scotia, Commissioner of Public Works and Mines; New Brunswick, Department of Lands and Mines; Prince Edward Island, Commissioner of Public Works.

In Manitoba, Ontario, New Brunswick and Nova Scotia, commissions under the Government have been formed to develop or purchase power and to transmit and distribute electric energy. The greatest development in this field has been in Ontario through the Hydro-Electric Power Commission, formed in 1905. In general, the commission acts as administrator for municipalities undertaking to co-operatively purchase or develop electric energy; it also acts as trustee for the Provincial Government, the financing of the enterprises being backed by the Government. The Manitoba and Nova Scotia Power Commissions, formed in 1919, and the New Brunswick Electric Power Commission in 1920, have much the same functions as the Hydro-Electric Power Commission of Ontario. In the province of Quebec the Quebec Streams Commission is actively engaged in the examination of rivers and power sites and the construction of storage basins for water-power purposes.

At the present time many large developments are being rushed to completion. In British Columbia the East Kootenay Power Company is constructing a 15,000 horse-power central electric station, the Granby Consolidated Mining, Smelting and Power Company and the Pacific Mills Limited have added 5,000 horse-power and 6,300 horse-power respectively to their present mining and pulp and paper installations, while the British Columbia Electric Railway Company is preparing to install a 25,000 horse-power unit in its Stave Falls station. The Manitoba Power Company has installed two units of 28,000 horse-power each in its new power-house at Great Falls, Manitoba, and expect to add a third similar unit this year. The City of Winnipeg also intends adding three units totalling 20,700 horse-power to its Point du Bois station. The Hydro-Electric Power Commission of Ontario installed 130,600 horse-power during 1923 bringing its total installation to 746,029 horse-power and expect to have an additional 147,000 horse-power in place before the end of 1924. Power for the mining district of Northern Ontario has been augmented by over 9,000 horse-power, a 4,000 horse-power development being completed by the Lower Sturgeon Power Company and a similar station by the Great Northern Power Company, while additional power has been provided in existing stations. Before the end of 1924 an additional 45,000 horse-power is expected to be available from the Quinze River development of the Northern

Canada Power Company and the Abitibi River development of the Hollinger Consolidated Go'd Mines Limited. In Quebec there has been installed in various central stations some 30,000 horse-power during 1923 and construction work already under way provides for an additional 385,000 by the end of 1924, 280,000 horse-power of which will be in the great power stations of the Quebec Development Company on the Saguenay river and of the St. Maurice Power Company at La Gabelle. The year 1923 has seen substantial additions to existing central electric stations in the Maritime Provinces with further additions promised for 1924.

The Dominion Water-Power Branch, in co-operation with the various responsible provincial bodies, has effected a co-ordinated system of water-power analysis for the purpose of presenting the water-power resources of the Dominion upon a reliable and uniform basis. As a result of a careful reanalysis and computation by the branch, the total available and developed water-power resources of Canada are presented as follows:—

Province	Available 24 hour power at 80 per cent efficiency		Turbine installation horse-power
	At ordinary minimum flow horse-power	At ordinary 6 months flow horse-power	
1	2	3	4
British Columbia.....	1,931,142	5,103,460	355,517
Alberta.....	475,281	1,137,505	33,067
Saskatchewan.....	513,481	1,087,756	
Manitoba.....	3,270,491	5,769,444	162,025
Ontario.....	4,950,300	6,808,190	1,445,480
Quebec.....	6,915,244	11,640,052	1,116,398
New Brunswick.....	50,406	120,807	44,539
Nova Scotia.....	20,751	128,264	54,950
Prince Edward Island.....	3,000	5,270	2,239
Yukon and Northwest Territories.....	125,220	275,250	13,199
	18,255,316	32,075,998	3,227,414

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 are not as yet recorded. The ratio of actual plant installation to theoretical power available, indicates that the water-power resources of the Dominion as at present recorded, will permit of a turbine installation of 42,000,000 horse-power.

The above tabulated figures may be considered as representing the *minimum water-power possibilities* of the Dominion. As an example, the detailed analyses which have been made of the water-power resources of New Brunswick and Nova Scotia, indicate that by taking full advantage of reservoir facilities these two provinces possess, at the least, 200,000 and 300,000 commercial horse-power within their respective borders.

With a water-power development of 353 horse-power per 1,000 population, Canada stands well to the fore in respect to availability and utilization of hydro-power resources, being surpassed on this basis by only Norway and Switzerland. The enormous water-power reserves still untouched form a substantial foundation for the progressive exploitation and development of other natural resources, especially if properly co-ordinated with the development and utilization of the well-known fuel resources of the Dominion.

OTTAWA, February 1, 1924.

CENTRAL ELECTRIC STATIONS

The sixth census of the central electric station industry shows a larger increase for the year 1922 in capital and power installed than for any previous year since the statistics were inaugurated. Capital and power are not included in the census until the project is completed or the installation has started operation and for this reason revenues, expenses, output, etc., do not show the same abrupt changes.

The Ontario Hydro-Electric Power Commission's power-house at Queenston was completed towards the end of 1921 and the first wheel put in commercial operation January, 1922, so that this is the first year the statistics of that plant are included in the census. Of the total increase in capital of \$83,399,301 this plant accounted for over \$65,000,000. The three wheels which were put in operation in 1922 aggregated 165,000 horse-power; a fourth wheel was installed in December, 1922; a fifth, early in 1923 and a sixth in December, 1923. This was the largest single addition to the industry during the year, but several other additions were also made.

The larger installations included 10,000 horse-power at Ranney Falls on the Trent river, 2,400 horse-power at Sault St. Marie, Ont., 43,000 horse-power at Shawinigan Falls and 22,000 horse-power at Grand Mere on the St. Maurice river, 13,000 horse-power at Stave Falls, B.C., 7,200 horse-power on the Bull River, Fernie, B.C., 5,700 horse-power steam turbine at Edmonton, 1,000 horse-power steam turbine at Drumbeller, Alta., and 6,900 horse-power on the Winnipeg river at Point du Bois. The Manitoba Power Company also completed an installation of 28,000 horse-power of a 168,000 horse-power project on December 28, 1922, which is not included in these data. A water turbine of 2,250 horse-power at Grand Falls was an addition in New Brunswick, and in Nova Scotia, 10,800 horse-power at St. Margaret's Bay were installed by the Nova Scotia Power Commission. Two wheels aggregating 40,000 horse-power of the Ontario Power Company at Niagara Falls were damaged and were not replaced, reducing the power of 1922 accordingly.

The net increase in installed power was 280,541 horse-power in main plants and 16,695 horse-power in auxiliary plants. Steam engines showed a decrease in both number and total capacity from 1921 but water wheels and turbines showed an increase of 285,932 horse-power being by far the greatest increase in any one year since the statistics were first compiled in 1917. These data refer only to the central electric station industry for 1922 and not to water-power development although approximately three-quarters of all water-power developed in the Dominion is employed in this industry.

Over the five-year period, 1918-22, the total increase in capital has been \$166,126,350, or 41 per cent, the largest increase being in the municipal plants where the capital was more than doubled. The large increase for this class of stations was due to the activities of the provincial Commissions of Ontario, Manitoba and Nova Scotia, which are now developing and distributing power.

The revenues showed an increase of \$28,779,733, or 54 per cent. This, however, included certain duplications where power passed through two or three hands before it reached the final consumer. This pertains not only to the electric energy sold by the purely distributing companies, but also to many generating stations which purchased power and resold it, the revenues being included for each sale.

Data on the number of customers was not collected until 1920, so that comparisons for a five-year period are not possible, also the output was compiled for the first time in 1919.

Many small plants have not the equipment to meter their output, but in 1922 a special effort was made to estimate the output of such plants as closely as possible and it is believed that the 1922 figures will represent very accurately the output of the central electric stations in Canada. Although the municipal stations represented over 55 per cent of the total number and 31 per cent of the capacity, in 1922 their output was only 24 per cent of the total output of all stations. The number of customers however, supplied with electric energy by the municipal stations was 55 per cent of the total and the revenues collected was 46 per cent of total revenues. The cost of the Chippewa Queenston development with only the initial wheels operating, the extensive provincial transmission systems and many municipalities purchasing power from commercial stations for distribution were all factors in this high capital investment compared with the amount of energy generated.

STATIONS (Table 3).—By the definition adopted by the Bureau for census purposes, any plant, company or institution selling electric energy is a central electric station. Stations have been divided into two main classes, (1) commercial stations, those operated by private parties and (2) municipal stations, those operated by municipal, provincial and federal governments. Each of these classes have been subdivided into (1) non-generating, stations buying all power which they distribute and (2) generating, stations generating all or part of the power which they sell. Generating stations have again been subdivided into (1) hydraulic, those using water-power as a primary power either solely or supplemented with steam or other power, and (2) fuel, those generating all their power by steam or internal combustion engines.

There were a few cases where non-generating stations had steam auxiliary plants held in reserve to meet emergencies. Of the total number of 269 hydraulic stations, 234 of them depended solely on water-power while 35 or less than 15 per cent used other power either to supplement the water-power or for reserve to meet emergencies. In one instance, the auxiliary equipment had greater capacity than the hydraulic equipment and in a number of the stations, steam equipment was used constantly to supplement the hydraulic power.

The statistics of such equipment in hydraulic stations however, were treated in the census as purely auxiliary power whereas the water wheels of the hydro-electric stations and the equipment in straight fuel stations was classed as main plant equipment. The number of stations equipped with only gas and oil engines (128) was higher than might be expected due to the inclusion of numerous small gasoline lighting units used quite extensively in Saskatchewan and the other prairie provinces. By referring to table 13, it will be noted that the average capacity of internal combustion engines was only slightly over 70 horse-power.

CAPITAL (Table 4).—As explained above, the inclusion of the Queenston plant of the Ontario Hydro-Electric Power Commission greatly increased the capital of the Ontario stations, increasing the per cent of the total for the Dominion from 45.06 per cent in 1921 to 51.53 per cent, so that while all the provinces with the exception of Prince Edward Island showed an increase in the total capital, the per cent of the total in each case showed a decrease. The averages at the foot of the table should be used with caution as the capital includes all costs of transmission and distribution systems of both generating and non-generating stations, materials, cash, trading accounts, etc. The reductions of the averages per unit of power in Quebec was the result of additional wheels being installed in existing stations, increasing the horse-power without a corresponding increase in capital. The new projects in Ontario and Nova Scotia had the reverse effect.

REVENUE (Table 5).—The revenue shown in table 5 is the gross revenue and includes the revenue received from each company for the power sold although in some cases three or four companies handled the same power. The total cost

of power interchanged between stations was \$8,282,908 paid by generating stations and \$11,872,779 paid by non-generating stations, a total of \$20,155,687, which leaves a net revenue of \$62,173,179. The revenue for lighting purposes covers only the revenue received from households, stores, etc. for electricity used for lighting, cooking, etc., whereas the revenue for power purposes includes not only the revenue from commercial customers buying electric energy for power purposes, but also the revenue received from distributing companies for electric energy, which might be sold partly for lighting and partly for power. Deducting the \$20,155,687 for current interchanged between companies, leaves a revenue of \$30,474,678 received for power sold direct to consumers. Over \$12,500,000 of the \$20,155,687 was for electric energy purchased by the municipalities from the Ontario Hydro-Electric Commission and for power purchased by the Commission from the Ontario Power Company which is still operated as a separate organization. The average per kilowatt hour for generating stations shown at the foot of this table is the net revenue of generating stations, that is, the gross revenue less the cost of power purchased, and is not the price at which power was sold to the ultimate consumer. Total or partial exemption of municipal stations from taxation has an effect on these averages and should be considered when making comparisons. Irrespective of this feature, however, the data quite clearly indicates that power is developed far more cheaply in the provinces utilizing extensively water power as the primary power for the industry.

FREE SERVICE (*Table 6*).—Free service is the estimated value of electricity supplied for lighting streets, public buildings, etc., for which no direct recompense is received. With municipal stations this is only a matter of bookkeeping, the lighting department not being credited for its services, and with these stations the amounts could very properly be added to the revenues. It will be noted that the municipal stations reported 86 per cent of the total free service.

EXPENSES (*Table 7*).—The total of \$14,495,250 for salaries and wages shown as expenses contains a certain amount of expenditure that properly should be charged to capital account. The central electric stations as a whole have not found it practicable to separate the salaries and wages paid on extensions and new work although the total expenditure on such extensions is included in the capital. The total wages therefore have been shown as expenses. This does not apply to large installations where the workmen are not the regular operating employees of the station. It will be noted that the cost of power constitutes over 40 per cent of the total expenses of the stations.

EMPLOYEES (*Table 8*). There is very little fluctuation in the number of employees of the central electric station industry, line men, operators, etc., being necessary irrespective of the fluctuations in the load. The number of employees in 1922 showed a slight decrease from 1921 although the output increased. Where employees work only part time, they are considered central electric station employees according to the proportion of the time that they are engaged in the work of the industry.

CUSTOMERS (*Table 9*).—The number of customers is divided between commercial and private; private customers include all private houses, whereas commercial customers include all power customers, stores, hotels, churches, or all customers other than private houses. The averages of the number of private customers per hundred of population gives a very fair idea of the extent to which electricity is used in private houses for lighting, cooking, etc. British Columbia's high average of 14.41 per hundred of population is, to some extent, due to the concentration of the population of that province in the Vancouver and Victoria districts, the population of Vancouver and suburbs, New Westminster and Victoria which are served by large hydro-electric stations, constituting 41 per cent of the total of the province. Ontario ranks second with 12.06, Quebec

third, with 11.20, and Manitoba fourth, with 9.55 per hundred of population. The provinces which derive the major portion of their electricity from fuel stations show much the lower averages.

POLE LINE MILEAGE (*Table 10*).—Distribution pole line mileage is credited with all pole line mileage between generating stations and consumers where the power is not stepped up for transmission but transmitted at the generated voltage, and it also includes all pole lines carrying both primary and secondary circuits. The growth of the pole line mileage is a fair indication of the steady advancement of the service into new territories. During 1922 this growth amounted to 4 per cent although the mileage belonging to fuel stations showed a decrease.

EQUIPMENT (*Table 11*).—The total primary power including power of both main and auxiliary plants was 2,408,655 horse-power, nearly 88 per cent of which was hydraulic, the other 12 per cent being steam and internal combustion engines. Practically all the secondary power was alternating current. Many of the D.C. dynamos are run in connection with gasoline lighting units and in Saskatchewan where this type of equipment is used quite extensively, there were 71 D.C. dynamos with an average capacity of 25 K.W. whereas the A.C. dynamos in that province numbered only 78 but with an average capacity of 550 K.V.A. The larger D.C. dynamos throughout the Dominion were used almost exclusively for street railway operation.

AUXILIARY PLANT EQUIPMENT (*Table 12*).—One of the prominent features of the auxiliary plant equipment was the steam turbines, which had an aggregate capacity of 129,110 horse-power, or 86 per cent of the total primary power, internal combustion engines were used very little in the auxiliary plants, being confined almost solely to small lighting plants.

MAIN PLANT EQUIPMENT (*Table 13*).—The primary power of the main plant equipment showed an increase over 1921 of 14 per cent and practically all of this increase was in water wheels and turbines, steam turbines and steam reciprocating engines both showing decreases, and gas and oil engines showing only a slight increase. The increase in the primary power of commercial stations was 8 per cent whereas the increase for municipal stations was 30 per cent. The addition of the Queenston plant with 165,000 horse-power accounted for practically all of this latter increase.

MAIN PLANT EQUIPMENT CLASSIFIED (*Table 14*).—This table shows the total equipment of main plant classified according to manufacturers rating and very clearly indicates where different sized units were located. It will be noted that the 83 water wheels ranging from 10,000 horse-power to 55,000 horse-power aggregated 1,293,900 horse-power, or over 60 per cent of the total. These units were located in British Columbia, Ontario and Quebec, 64 of them with a capacity of 915,700 horse-power being in commercial stations. Of the 225 internal combustion engines, 118 were located in Saskatchewan where no water power was used in this industry.

ELECTRIC ENERGY GENERATED (*Table 15*).—The total output of generating stations metered at the stations is shown in this table. Where stations had no meters, an estimate was made as closely as possible, so that the output shown is the total amount of electric energy generated by central electric stations in Canada. Under "K.W. Hours. generated by non-generating stations," is included the output of a few stations operating a short period as generating stations which later ceased operating their power plants and purchased power from other stations for resale and consequently were classed in the census as non-generating stations. Also a few non-generating stations held generating

equipment in reserve which was operated for a short period. The output of these stations was kept separate so as not to distort comparisons between classes of generating stations.

Over 97 per cent of the output of all stations was generated by hydro-electric stations and 75 per cent of the total output was from commercial hydro-electric stations. The ratios of output to maximum capacity is the total output divided by the product of the K.V.A. capacity and 8,760 hours and the average K.W. Hours per K.V.A. is also the output divided by the dynamo capacity. When it is considered that these ratios are based on a twenty-four hour operation each day in the year and 100 per cent power factor, a ratio to maximum capacity of 45 per cent to 48 per cent is exceedingly high. It will be noted that these high ratios were attained only in the hydro-electric stations.

FUEL (Table 16).—Since over 97 per cent of the electricity generated by central electric stations was produced by hydro-electric stations, the fuel bill of the industry as a whole was consequently comparatively small. Saskatchewan, which used no water-power in the industry at all had much the highest bill although the output of that province was less than one per cent of the total output for Canada. This table includes the fuel used in both straight fuel plants and by the fuel equipment of hydro-electric plants. The value of fuel consumed by the latter was: Alberta, \$45,624; British Columbia, \$101,467; New Brunswick, \$1,554; Nova Scotia, \$92,120; Ontario, \$206,539; Prince Edward Island, \$439; Quebec, \$29,482; Yukon, \$100. Fuel oil was used most extensively in British Columbia where it was imported, and gas, in Alberta, where it was consumed under boilers of steam engines and also in internal combustion engines.

NOTE.—In tables 4, 5 and 7, certain data have been omitted and asterisks inserted. This was necessary to obscure these data pertaining to classes of stations comprised of less than three companies.

Table 1—Comparative Summary, 1922-1918

Tableau 1—Résumé comparatif, 1922-1918

Principal Data by Class of Station Données principales par classes d'usines		1922	1921	1920	1919	1918	Per Cent increase 1922 over 1918 — Pourcentage d'augmenta- tion de 1922 sur 1918
Stations—	Usines—						
Total	Total	905	857	819	805	795	13.8
Hydraulic	Hydrauliques	269	259	258	272	280	53.9
Fuel	A combustible	253	251	248	221	235	17.7
Non-generating	Non-productrices	383	347	313	312	289	36.8
Commercial	Commerciales	401	377	379	358	377	6.4
Municipal	Municipales	504	480	440	447	418	20.6
Capital—	Capitaux—						
Total	Total	568,068,752	494,669,451	448,273,642	416,512,010	401,942,402	41.3
Commercial	Commerciales	326,448,922	327,439,827	311,160,342	287,558,443	288,151,605	13.3
Municipal	Municipales	241,619,830	157,229,624	137,113,300	128,953,567	113,790,797	112.3
Generating	Productrices	484,635,750	410,382,619	380,372,831	365,389,364	364,653,246	32.9
Non-generating	Non-productrices	83,433,002	74,286,832	67,900,811	51,122,646	37,289,156	123.8
Revenue—	Recettes—						
Total	Total	82,328,866	73,376,580	65,705,060	57,833,392	53,549,133	53.7
Commercial	Commerciales	44,776,945	42,713,327	39,904,747	35,532,867	33,190,882	34.9
Municipal	Municipales	37,551,921	30,663,253	25,800,313	22,300,525	20,358,251	84.5
Generating	Productrices	56,385,731	52,446,929	48,042,642	45,420,566	42,201,435	33.6
Non-generating	Non-productrices	25,943,135	20,930,651	17,662,418	12,432,826	11,347,698	128.6
Expenses—	Dépenses—						
Total	Total	49,962,614	47,041,503	45,100,946	34,341,923	30,265,864	65.1
Commercial	Commerciales	22,988,298	24,943,355	24,692,105	19,201,892	16,851,623	36.4
Municipal	Municipales	26,974,346	22,101,148	20,408,841	15,140,031	13,414,241	101.1
Generating	Productrices	29,331,675	29,389,443	29,684,712	24,281,570	22,640,656	29.6
Non-generating	Non-productrices	20,630,969	17,655,060	15,416,234	10,060,353	7,625,208	170.6
Pole Line Mileage—	Lignes sur poteaux—						
Total	Total	22,669	21,714	20,879	20,466	-	-
Commercial	Commerciales	11,123	10,987	10,721	10,784	-	-
Municipal	Municipales	11,546	10,727	10,158	9,682	-	-
Generating	Productrices	13,927	13,460	13,651	14,111	-	-
Non-generating	Non-productrices	8,742	8,254	7,228	6,355	-	-
Customers—	Abonnés—						
Total	Total	1,053,545	973,212	894,158	-	-	-
Private houses	Particuliers	889,346	830,062	764,907	-	-	-
Commercial	Commerçants	164,199	143,150	129,251	-	-	-
Comm. stations	Commerciales	476,285	466,235	437,672	-	-	-
Municipal Stat.	Municipales	577,260	506,977	456,486	-	-	-
Generating	Productrices	533,923	531,643	504,026	-	-	-
Non-generating	Non-productrices	519,622	441,569	390,132	-	-	-
Electric Energy Gen-Énergie électrique erated— produite—	Electric Energy Gen-Énergie électrique erated— produite—						
Total kilowatt hours (thousand)	K.W. heures pro- duit milles	6,740,750	5,614,132	5,894,867	5,497,204	-	-
Commercial	Commerciales	5,119,676	4,316,272	4,456,428	4,191,223	-	-
Municipal	Municipales	1,621,074	1,297,860	1,438,439	1,305,981	-	-
Equipment in generating stations (main Plant only). Machinerie dans les usines productrices (Machines des usines principales)							
Total primary power Total for motrice primaire	H.P.	2,258,398	1,977,857	1,897,024	1,907,135	1,841,114	22.6
Water-wheels and turbines	No	629	604	594	610	620	1.5
Turbines et roues hydrauliques	H.P.	2,112,289	1,826,357	1,754,130	1,736,981	1,682,191	25.6
Steam reciprocating engines	No	175	187	196	198	218	-19.7
Machines à vapeur	H.P.	40,484	45,450	49,430	53,068	54,784	-26.1
Steam turbines	No	41	43	37	38	37	10.8
Turbines à vapeur	H.P.	89,545	90,705	80,750	102,865	90,853	1.4
Internal combustion engines	No	225	203	179	136	134	67.9
Moteurs à gaz et à pétrole	H.P.	16,080	15,345	12,714	14,221	13,286	21.0
Total in commercial stations	H.P.	1,565,229	1,443,533	1,415,488	1,428,916	1,434,196	9.1
Total dans les usines commerciales							
Total in municipal stations	H.P.	693,169	534,324	481,536	478,217	406,918	70.3
Total dans les usines municipales							
Total secondary power Total force motrice secondaire	K.V.A.	1,736,199	1,475,610	1,451,820	1,487,790	1,433,722	21.1
Dynamos A.C.	No	857	841	817	836	849	.9
Dynamos C.A.	K.V.A.	1,725,831	1,464,022	1,439,937	1,474,969	1,421,228	21.4
Dynamos D.C.	No	161	172	165	128	141	28.4
Dynamos C.D.	K.W.	10,368	11,588	11,892	12,821	12,404	-17.0
Total in commercial stations	K.V.A.	1,210,947	1,086,128	1,078,611	1,112,404	1,118,438	8.27
Total dans les usines commerciales							
Total in municipal stations	K.V.A.	525,252	389,482	373,218	375,296	315,284	66.6
Total dans les usines municipales							

*Estimates for stations not reporting output included in 1922 only.

*Estimation pour usines ne faisant pas rapport de leur production donnée seulement pour 1922.

Table 2—Summary of Principal Data 1922-1921

	Total		Commercial — Commerciales		Municipal — Municipales	
	1922	1921	1922	1921	1922	1921
	1	2	3	4	5	6
Total Number of Stations	905	857	401	377	504	486
No. of hydraulic stations.....	269	259	196	189	73	70
No. of fuel stations.....	253	251	130	128	123	123
No. of non-generating stations.....	383	347	75	60	308	287
Total Capital	568,068,752	484,669,451	326,448,922	327,439,827	241,619,830	157,229,624
Lands, buildings and fixtures.....	264,874,514	193,711,524	143,635,081	141,659,321	121,239,433	52,052,203
Equipment.....	129,593,720	118,184,399	87,400,905	85,167,968	42,192,824	33,016,431
Distribution and transmission system....	113,582,085	111,858,623	49,113,791	53,906,198	64,468,294	57,951,625
Materials on hand and miscellaneous supplies.....	10,087,701	9,632,639	4,997,347	4,724,239	5,090,354	4,908,400
Cash, trading and operating accounts, etc.....	49,930,723	51,282,266	41,301,798	41,981,301	8,628,925	9,300,906
Total Revenue from Sale of Power	87,328,866	73,376,580	44,774,945	42,713,327	27,551,921	30,663,253
For lighting purposes.....	31,698,501	28,797,359	14,806,089	14,870,749	16,892,412	13,926,000
For all other purposes.....	50,030,365	44,579,221	29,970,856	27,842,578	20,659,509	16,736,943
Free Service (value at commercial rates)	277,639	259,514	37,661	36,485	239,378	223,029
Total Operating Expenses	49,962,641	47,041,503	22,988,298	24,943,355	26,974,316	22,101,148
Salaries and wages.....	14,495,250	15,234,678	6,551,084	7,005,590	7,944,166	8,229,088
Fuel.....	2,676,556	3,024,930	1,270,963	1,453,927	1,405,593	1,571,063
Cost of power.....	20,155,687	28,784,895	6,882,604	16,483,838	13,273,083	12,301,057
Miscellaneous.....	12,635,151		8,283,147		4,351,504	
Total Number of Employees	10,684	10,714	4,994	5,119	5,690	5,595
Total Mileage of Pole Lines	22,669	21,714	11,123	10,987	11,546	10,727
For transmission.....	8,206	7,022	4,479	4,214	3,817	3,708
For distribution.....	14,373	13,792	6,644	6,773	7,729	7,019
Total Number of Customers	1,053,545	973,212	476,285	466,235	577,260	506,977
Commercial.....	164,109	143,150	67,530	64,355	96,669	8,729,088
Private houses.....	889,346	830,062	408,755	401,880	480,591	428,182
Total Kilowatt Hours Generated (thousands).....	6,749,750	5,614,132	5,119,676	4,316,272	1,621,674	1,297,860
Total Power Equipment (excluding Auxiliary Plant Equipment)						
	Total		Commercial — Commerciales		Municipal — Municipales	
	1922	1921	1922	1921	1922	1921
	1	2	3	4	5	6
Total Primary Power	H.P. 2,258,398	1,977,857	1,565,229	1,443,533	693,169	534,324
Water-Wheels and turbines.....	No. 629	604	470	453	159	151
H.P. 2,112,289	1,826,357	1,531,847	1,398,672	580,442	427,685	
Steam reciprocating engines.....	No. 175	187	85	95	90	92
H.P. 40,484	45,450	17,823	22,272	22,661	23,178	
Steam turbines.....	No. 41	43	14	17	27	26
H.P. 89,545	90,705	11,434	19,204	78,111	71,411	
Gas and oil engines.....	No. 225	203	118	103	107	100
H.P. 16,080	15,345	4,125	3,295	11,955	12,050	
Total Secondary Power	K.V.A. 1,736,199	1,475,610	1,210,947	1,086,128	525,252	380,482
Dynamos, A.C.....	No. 857	841	520	506	337	335
K.V.A. 1,725,831	1,464,022	1,204,624	1,078,515	521,207	385,607	
Dynamos, D.C.....	No. 181	172	138	137	43	35
K.W. 10,368	11,588	6,323	7,613	4,045	3,975	

Tableau 2—Résumé comparatif des données principales, 1922-1921

Generating Productrices		Non-Generating Non-productrices		Per Cent of Column 1. — Pour-cent de la 1ère col.			
1922	1921	1922	1921	Com- mer- ciales 1922	Mu- nici- pales 1922	Gen- erat. Prod. 1922	Non Gen Non prod. 1922
7	8	9	10	11	12	13	14
522	510	383	347	44.3	55.7	57.7	42.3
269	259	—	—	72.0	27.1	100.0	—
253	251	—	—	51.4	48.6	100.0	—
—	—	383	347	19.6	80.4	—	100.0
484,635,750	410,387,619	83,433,002	74,286,832	57.5	42.5	85.3	14.7
255,630,252	145,114,074	9,244,262	8,596,530	54.2	45.8	96.5	3.5
116,483,081	113,230,061	13,110,648	4,964,338	67.4	32.6	89.9	10.1
65,470,899	63,660,328	48,111,186	48,198,295	43.2	56.8	57.6	42.4
6,127,058	5,598,245	3,960,643	4,034,394	49.5	50.5	60.7	39.3
49,924,460	42,789,011	9,006,263	8,493,255	82.7	17.3	82.0	18.0
56,385,731	52,445,929	25,943,135	20,930,651	54.4	45.6	68.5	31.5
10,349,651	16,230,893	15,448,859	12,566,466	46.7	53.3	51.3	48.7
10,336,080	36,215,636	10,494,285	8,364,185	59.2	40.8	79.3	20.7
190,249	203,784	86,790	55,730	13.6	86.4	68.7	31.3
29,331,675	29,389,443	20,630,969	17,655,060	16.0	54.0	58.7	41.3
8,468,338	9,019,494	6,021,912	6,215,184	45.2	54.8	58.4	41.6
2,553,589	3,017,272	122,967	7,658	47.5	52.5	95.4	4.6
8,282,908	17,352,677	11,872,779	11,432,218	34.1	65.9	41.1	58.9
10,026,840	—	2,608,311	—	65.6	34.4	79.4	20.6
6,237	6,426	4,447	4,288	46.7	53.3	58.4	41.6
13,927	13,460	8,742	8,254	49.1	50.9	61.4	38.6
7,068	6,640	1,228	1,282	54.0	46.0	85.2	14.8
6,859	6,820	7,514	6,972	46.2	53.8	47.7	52.3
533,923	531,643	518,632	441,459	45.2	54.8	50.7	49.3
68,672	66,052	95,527	77,098	41.1	58.9	41.8	58.2
465,251	465,591	424,095	364,471	46.0	54.0	52.3	47.7
6,727,674	5,611,132	13,076	—	76.0	24.0	99.8	.2

Nombre total des usines
 Nombre des usines hydrauliques
 Nombre des usines à combustibles
 Nombre des usines non productrices

Total des capitaux
 Terrains bâtiments et installations
 Machinerie
 Réseaux de distribution et de transm.

Matières premières et approvisionne.
 Fonds de roulement, caisse, etc.

Total des rec. prod. par l'élec., vendue
 Pour l'éclairage.
 Pour tous autres usages

Serv. gratuit (val. au prix du commerce)

Total des dépenses d'exploitation
 Traitements, appoint., et salaires
 Combustible
 Achat de force motrice électrique
 Dépenses diverses

Nombre total du personnel

Long, en milles des lignes sur poteaux
 De transmission
 De distribution

Nombre total des abonnés des usines
 Commerçants
 Particuliers

Total des kilowatt-heures produits (milliers)

Etat de la machinerie (à l'exclusion de celles des usines auxiliaires)								Total Power Equipment in Auxiliary Plants	
Per Cent of Columns 1 & 2 — Pourc. des col. 1 et 2				Per cent of totals of Columns 3, 4, 5 & 6 — Pourc. des col. 3, 4, 5 et 6				Machines des usines auxiliaires	
Commercial		Municipal		Commercial		Municipal		1922	1921
1922	1921	1922	1921	1922	1921	1922	1921	1922	1921
69.3	73.0	30.7	27.0	100.0	100.0	100.0	100.0	150,257	133,562
74.7	75.0	25.3	25.0	—	—	—	—	—	—
72.5	76.6	27.5	23.4	97.9	96.9	83.7	80.0	—	—
48.6	50.8	51.4	49.2	—	—	—	—	40	34
44.0	49.0	50.0	51.0	01.1	01.6	3.3	4.3	20,476	13,436
34.1	39.5	05.9	60.5	—	—	—	—	31	26
12.8	21.3	87.2	78.7	00.7	01.3	11.3	13.4	129,110	119,600
52.4	50.7	47.6	49.3	—	—	—	—	7	5
25.7	21.5	74.3	78.5	00.3	00.2	1.7	2.3	671	526
69.7	73.6	30.3	26.4	100.0	100.0	100.0	100.0	122,214	107,490
60.7	66.2	30.3	39.8	—	—	—	—	72	52
69.8	73.7	30.2	26.3	99.5	99.3	99.2	99.0	120,534	1,073,340
76.2	79.7	23.8	20.3	—	—	—	—	5	1
61.0	65.7	39.0	34.3	0.5	0.7	.8	1.0	1,680	150

Total, force motrice primaire, H.P.

Turbines et roues hydrauliques nomb.
 H.-P.

Machines à vapeur..... nomb.
 H.-P.

Turbines à vapeur..... nomb.
 H.-P.

Moteur à gaz et à pétrole..... nomb.
 H.-P.

Total, force motrice secondaire K.V.A

Dynamos, C.A..... nomb.
 K.V.A.

Dynamos, C.D..... nomb.
 K.W.

Table 3—Stations, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
	1	2	3	4	5	6
Total Number of Stations	905	69	58	33	31	55
Per cent of total for Canada.....	100	7.62	6.40	3.64	3.42	6.07
Commercial Stations	401	37	34	11	22	31
Non-generating.....	75	5	6	3	3	10
Generating.....	326	32	28	8	19	21
Hydraulic.....	196	4	20	2	7	8
Fuel.....	130	28	8	6	12	13
Municipal Stations	504	32	24	22	9	24
Non-generating.....	308	4	8	7	3	6
Generating.....	196	28	16	15	6	18
Hydraulic.....	73	—	7	2	2	10
Fuel.....	123	28	9	13	4	8
Total Number of Non-Generating Stations	383	9	14	10	6	16
Total Number of Generating Stations	522	60	44	23	25	39
Hydraulic stations.....	269	4	27	4	9	18
Fuel stations.....	253	56	17	19	16	21
With water-wheels and turbines only.....	234	3	21	1	7	16
With water-wheels and turbine and fuel auxiliary equipment.....	35	1	6	3	2	2
With steam engines only.....	98	31	10	9	8	14
With steam turbines only.....	9	—	1	—	1	3
With gas or oil engines only.....	125	17	6	10	4	2
With both steam engines and turbines.....	10	4	—	—	1	2
With both steam and gas or oil engines.....	7	3	—	—	2	—
With both steam turbines and gas or oil engines.....	1	1	—	—	—	—
With Alternating current dynamos only.....	405	41	40	16	19	34
With Direct current dynamos only.....	109	17	4	7	5	4
With both Alternating and Direct current dynamos.....	8	2	—	—	1	1

Table 4—Capital, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
	1	2	3	4	5	6
Total Capital	568,068,752	13,904,119	48,036,882	23,014,790	4,968,933	8,304,858
Per cent of total for Canada.....	100	2.45	8.46	4.05	.88	1.46
In lands, buildings and fixtures.....	264,874,514	4,348,105	21,274,794	6,917,558	1,699,731	2,784,136
Equipment.....	129,593,729	5,464,001	9,921,938	4,975,466	1,492,307	2,497,722
Distribution and transmission lines.....	113,582,085	3,327,716	13,461,165	10,114,581	1,304,492	2,611,224
Materials and supplies.....	10,087,701	258,682	1,125,215	455,735	155,987	72,811
Cash, trading accounts, etc.....	49,930,723	505,615	2,253,770	551,451	334,416	338,965
Total Capital in Commercial Stations	326,448,922	6,563,167	45,382,334	7,436,349	4,437,043	4,835,760
Non-generating.....	22,216,946	102,384	7,351,312	•••	31,368	2,279,381
Generating.....	304,231,976	6,460,723	38,031,022	•••	4,405,675	2,556,379
Hydraulic.....	297,400,840	5,632,172	37,915,826	•••	1,649,787	688,858
Fuel.....	6,831,136	828,551	115,196	46,033	2,755,888	1,967,521
Total Capital in Municipal Stations	241,619,830	7,341,012	2,654,548	15,578,441	549,890	3,469,098
Non-generating.....	61,216,056	22,489	513,472	1,874,010	92,995	147,826
Generating.....	180,403,774	7,318,523	2,141,076	13,704,422	456,895	3,321,272
Hydraulic.....	192,307,313	—	1,488,925	13,231,601	200,641	2,802,108
Fuel.....	18,696,461	7,318,523	652,151	472,821	256,254	519,164
Total Capital in Non-Generating Stations	83,433,002	124,873	7,864,784	•••	124,363	2,427,207
Total Capital in Generating Stations	484,635,750	13,779,246	40,172,098	•••	4,862,570	5,877,651
Hydraulic.....	450,708,153	5,632,172	39,404,751	•••	1,850,428	3,390,966
Fuel.....	24,927,597	8,147,074	767,347	•••	3,012,142	2,486,685
Average per H.P. of primary power	252	158	206	249	212	300
Average per H.P. including auxiliary equip- ment	236	153	185	220	203	226
Average per K.V.A. of dynamo capacity ...	327	203	314	365	296	382
Average per K.V.A., including auxiliary equipment	306	197	277	267	286	278

Tableau 3—Usines, 1922

Ontario	Prince Edward Is. — Ile du Pr.- Edouard	Quebec	Saskat- chewan	Yukon	
7	8	9	10	11	
396	11	154	85	3	Nombre total des usines.
43.71	1.21	17.00	10.49	0.44	Pourcentage dans chaque province
93	10	114	46	3	Usines commerciales
16	1	30	—	1	Non productrices
77	9	84	46	2	Productrices
68	7	79	—	1	Hydrauliques
9	2	5	46	1	A combustible
393	1	40	49	—	Usines municipales
256	—	21	3	—	Non productrices
47	1	19	46	—	Productrices
37	—	15	—	—	Hydrauliques
10	1	4	46	—	A combustible
272	1	51	3	1	Nombre total des usines non productrices
124	19	103	92	2	Nombre total des usines productrices
105	7	94	—	1	Hydrauliques
19	3	9	92	1	A combustible
74	5	86	—	1	Avec roues et turbines hydrauliques seulement
11	2	8	—	—	Avec roues et turbines hydrauliques, plus usines auxiliaires
11	—	4	10	1	Avec machines à vapeur seulement
—	—	1	3	—	Avec turbines à vapeur seulement
—	1	4	76	—	Avec moteur à gaz ou à pétrole seulement
—	—	—	3	—	Avec machines et turbines à vapeur à la fois
—	2	—	—	—	Avec machines à vapeur à gaz et à pétrole
—	—	—	—	—	Avec turbines à vapeur et moteur à gaz et à pétrole
107	8	95	44	1	Avec dynamos à courant alternatif seulement
16	2	6	47	1	Avec dynamos à courant direct seulement
1	—	2	1	—	Avec dynamos à courant alternatif et direct

Tableau 4—Capitaux, 1922

Ontario	Prince Edward Is. — Ile du Prince Edouard	Quebec	Saskat- chewan	Yukon	
7	8	9	10	11	
292,716,690	487,755	167,128,587	8,022,915	1,466,223	Total des capitaux
51.53	.08	29.42	1.41	.26	Pourcentage dans chaque province
150,330,093	35,200	75,839,845	991,408	653,644	Terrains, bâtiments et installations
53,031,550	307,973	47,412,616	4,059,910	430,241	Machinerie
81,010,752	113,609	18,870,991	2,622,060	145,504	Réseaux de transmission et de distribution
4,572,298	16,492	3,175,890	183,010	71,581	Matières premières et approvisionnements
30,770,997	14,499	21,829,245	166,521	165,253	Fonds de roulement, caisse, etc.
91,260,888	438,233	161,098,883	530,102	1,466,223	Total des capitaux dans les usines commerciales
2,957,802	—	8,730,459	—	—	Non productrices
91,303,086	—	152,378,424	530,102	—	Productrices
31,152,186	—	152,304,145	—	—	Hydrauliques
150,900	—	74,279	530,102	—	A combustible
198,454,802	49,522	6,029,704	7,492,813	—	Total des capitaux dans les usines municipales
57,713,966	—	805,423	45,866	—	Non productrices
140,740,836	49,522	5,224,281	7,446,947	—	Productrices
140,524,831	—	4,059,207	—	—	Hydrauliques
216,005	49,522	1,165,074	7,446,947	—	A combustible
60,671,768	—	9,525,892	45,866	—	Total des capitaux dans les usines non productrices
232,063,922	—	157,602,705	7,977,049	—	Total des capitaux dans les usines productrices
231,677,017	—	156,363,352	—	—	Hydrauliques
366,905	—	1,239,353	7,977,049	—	A combustible
301	276	220	156	—	Moyenne par H.P. de la machinerie d'énergie primaire
282	266	211	156	—	Moyenne par H.P. y compris machinerie auxiliaire
339	330	290	179	—	Moyenne par K.V.A. de la capacité des dynamos
363	330	268	179	—	Moyenne par k.v.a.y. compris machinerie auxiliaire

CENSUS OF INDUSTRY

Table 5—Revenue, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Revenue from Sale of Power	82,328,866	3,100,685	7,567,964	3,397,610	1,357,772	2,159,439
Per cent of total for Canada.....	100	3.77	9.19	4.11	1.65	2.62
For lighting purposes.....	31,698,501	2,055,453	3,391,790	2,432,018	873,512	1,519,368
For all other purposes.....	50,630,365	1,045,232	4,176,174	965,592	484,260	640,071
Revenue of Commercial Stations	44,776,945	787,012	6,725,341	1,329,061	1,221,889	1,753,161
Non-generating.....	8,151,579	23,502	2,841,646	* * *	11,375	930,083
Generating.....	36,625,366	763,510	3,883,725	* * *	1,210,514	823,078
Hydraulic.....	34,333,768	461,979	3,834,922	* * *	1,375,195	99,682
Fuel.....	2,291,598	361,531	51,803	21,362	835,319	723,396
Revenue of Municipal Stations	37,551,921	2,313,673	842,623	2,068,549	135,883	406,278
Non-generating.....	17,791,556	31,636	243,999	274,293	35,257	59,551
Generating.....	19,760,365	2,282,037	598,624	1,794,256	100,626	346,727
Hydraulic.....	14,023,331	—	359,906	1,609,887	25,389	148,025
Fuel.....	5,737,034	2,282,037	238,718	193,369	75,237	198,702
Revenue of Non-Generating Stations	25,943,135	55,128	3,085,615	* * *	46,632	989,634
Revenue of Generating Stations	56,385,731	3,045,547	4,482,349	* * *	1,311,140	1,169,805
Hydraulic.....	48,357,099	461,979	4,191,828	* * *	400,584	247,707
Fuel.....	8,028,632	2,583,568	290,521	* * *	910,556	922,098
Average Revenue of Generating Stations per H.P. of primary power.	24.97	34.54	19.20	32.43	55.84	42.23
Average Revenue of Generating Stations per H.P. in main and aux. plants.	23.41	33.64	17.22	28.60	53.40	31.78
Average Revenue of Generating Stations per K.V.A. of dynamo capacity.	32.48	44.57	29.33	39.60	77.83	53.76
Average Revenue of Generating Stations per K.V.A. in main and aux. plants.	30.34	43.24	25.85	34.75	75.17	39.11
Average Revenue per K.W. hour of Gene- rating Stations (cents).715	2.335	.749	1.141	3.490	3.836

Table 6—Free Service, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Estimated Value	277,039	9,372	50,550	2,856	26,869	14,218
Per cent of total for Canada.....	100	3.38	18.25	1.03	9.70	5.17
Commercial Stations	37,661	2,987	2,190	39	969	89
Non-generating.....	1,624	—	1,112	—	—	—
Generating.....	36,047	2,987	1,078	39	969	89
Hydraulic.....	31,056	—	—	—	525	—
Fuel.....	4,991	2,987	1,078	39	444	89
Municipal Stations	239,378	6,385	48,360	2,817	25,900	14,229
Non-generating.....	85,166	300	5,914	—	400	1,800
Generating.....	154,212	6,085	42,446	2,817	25,500	12,429
Hydraulic.....	94,227	—	23,784	—	25,000	888
Fuel.....	59,985	6,085	18,662	2,817	500	11,541
Free Service in Non-Generating Stations.	86,790	300	7,026	—	400	1,800
Free Service in Generating Stations	190,249	9,072	43,524	2,856	26,469	12,518
Hydraulic.....	125,283	—	23,784	—	25,525	888
Fuel.....	64,966	9,072	19,740	2,856	944	11,630

Tableau 5—Recettes, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
40,400,551	115,705	21,514,289	2,596,760	118,082	Total des recettes produits par l'électricité vendue
49.07	.14	26.13	3.16	.14	Pourcentage dans chaque province
11,654,009	101,402	7,756,815	1,857,040	57,094	Pour l'éclairage
28,746,542	14,303	13,757,474	739,729	60,988	Pour tous autres usages.
12,150,530	92,528	20,354,007	215,334	118,082	Recettes des usines commerciales
1,594,413	***	2,584,737	-	***	Non productrices
10,556,117	***	17,769,270	215,334	***	Productrices
10,530,342	***	17,772,594	-	***	Hydrauliques
25,775	***	26,676	215,334	***	A combustible
28,250,021	23,177	1,130,282	2,381,435	-	Recettes des usines municipales
16,832,975	-	291,198	22,677	-	Non productrices
11,417,046	23,177	839,114	2,358,758	-	Productrices
11,544,225	-	544,899	-	-	Hydrauliques
72,821	23,177	294,215	2,358,758	-	A combustible
18,427,388	***	2,875,905	22,677	***	Recettes des usines non productrices
21,923,163	***	18,638,384	2,574,092	***	Recettes des usines productrices
21,874,507	***	18,317,493	-	***	Hydrauliques
98,596	***	320,891	2,574,092	***	A combustible
22.61	65.10	24.58	50.07	***	Moy. des recettes des usines prod. par h.p. de machinerie primaire
21.18	62.75	23.56	50.07	***	Moy. des recettes des usines prod. par h.p. des usines principales et auxiliaires
20.23	77.68	31.23	57.57	***	Moy. des recettes des usines prod. par k.v.a. de la capac. des dynamos
27.29	77.68	29.89	57.57	***	Moy. des recettes des usines prod. k.v.a. des usines principales et auxiliaires
.538	8.404	.640	4.411	***	Moy. du revenu par k.w. heure des stations génératrices dont la prod. est connue

Tableau 6—Service gratuit, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
44,987	36	111,627	16,424	-	Valeur estimative totale
16.24	.01	40.29	5.93	-	Pourcentage dans chaque province
19,477	36	11,580	294	-	Usines commerciales
12	-	500	-	-	Non productrices
19,465	36	11,080	294	-	Productrices
19,465	36	11,030	-	-	Hydrauliques
-	-	50	294	-	A combustible
25,510	-	109,047	16,130	-	Usines municipales
17,065	-	59,687	-	-	Non productrices
8,445	-	40,360	16,130	-	Productrices
6,045	-	38,510	-	-	Hydrauliques
2,400	-	1,856	16,130	-	A combustible
17,077	-	60,187	-	-	Usines non productrices
27,910	36	51,440	16,424	-	Usines productrices
25,510	36	49,540	-	-	Hydrauliques
2,400	-	1,900	16,424	-	A combustible

CENSUS OF INDUSTRY

Table 7—Expenses, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Expenses	49,962,644	1,748,765	4,133,880	1,746,558	769,985	1,500,211
Per cent of total for Canada.....	100	3.50	8.27	3.50	1.54	3.00
Salaries and wages.....	14,495,250	741,180	1,284,343	832,545	264,718	465,373
Fuel.....	2,676,556	471,688	170,768	255,811	249,819	370,506
Miscellaneous.....	12,635,151	317,494	1,635,097	497,175	215,084	381,958
Cost of power.....	20,155,687	218,367	1,643,672	161,027	40,364	282,374
Total for Commercial Stations	22,988,298	458,179	3,643,301	671,220	674,926	1,187,851
Salaries and wages.....	6,551,084	226,008	1,041,460	274,419	233,046	351,830
Fuel.....	1,270,963	118,640	87,073	164,652	225,472	296,172
Miscellaneous.....	8,283,647	96,598	961,339	179,630	200,986	289,441
Cost of power.....	6,882,604	16,033	1,553,429	52,520	15,422	250,408
Non-generating stations.....	5,596,318	20,942	1,819,121	79,308	9,853	543,108
Generating stations.....	17,391,980	437,237	1,824,180	• • •	665,073	644,745
Hydraulic stations.....	15,650,093	179,938	1,785,991	• • •	138,309	64,117
Fuel stations.....	1,741,887	257,299	38,189	• • •	526,764	580,628
Total for Municipal Stations	26,974,346	1,290,526	490,579	1,075,328	95,059	312,360
Salaries and wages.....	7,944,166	514,252	242,883	558,126	31,672	113,542
Fuel.....	1,405,593	353,048	83,695	91,159	24,347	74,332
Miscellaneous.....	4,351,504	220,896	73,758	317,545	14,008	92,517
Cost of power.....	13,273,083	262,330	90,243	108,498	24,942	31,906
Non-generating stations.....	15,034,651	28,645	135,075	281,033	25,845	54,062
Generating stations.....	11,939,695	1,261,881	355,504	794,295	69,214	258,328
Hydraulic stations.....	8,180,465	—	180,875	615,482	26,351	101,217
Fuel Stations.....	3,759,230	1,261,881	174,629	178,813	42,863	157,111
Total Expenses for Non-Generating Stations	20,630,969	49,587	1,954,196	• • •	35,698	597,138
Total Expenses for Generating Stations	29,331,675	1,699,118	2,179,684	• • •	734,287	903,073
Hydraulic stations.....	23,830,558	179,938	1,966,866	• • •	164,660	165,334
Fuel stations.....	5,501,117	1,519,180	212,818	• • •	569,627	737,739

Table 8—Employees, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Number of Persons Employed	16,684	485	785	549	243	431
Per cent of total for Canada.....	100	4.54	7.35	5.14	2.27	4.04
Officers, superintendents, etc.....	1,036	34	65	40	48	62
Clerks, other salaried employees.....	3,418	130	283	225	36	97
Employees on wages.....	6,230	321	434	284	159	282
Total Employees in Commercial Stations	4,994	150	630	184	210	317
Non-generating.....	949	11	330	6	12	121
Generating.....	4,045	139	300	178	198	196
Hydraulic.....	3,560	59	283	170	59	51
Fuel.....	485	80	17	8	139	145
Total Employees in Municipal Stations	5,690	335	155	365	23	114
Non-generating.....	3,498	4	27	70	6	12
Generating.....	2,192	331	128	295	27	102
Hydraulic.....	1,253	—	83	252	10	55
Fuel.....	939	331	45	43	17	47
Total Employees in Non-Generating Stations	4,447	15	357	76	18	133
Total Employees in Generating Stations	6,237	470	428	473	225	298
Hydraulic.....	4,313	59	366	422	69	106
Fuel.....	1,424	411	62	51	156	192

Tableau 7—Dépenses, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
26,282,876 52-61	98,163 0-20	11,800,918 23-62	1,864,638 3-61	76,716 0-15	Total des dépenses
					Pourcentage dans chaque province
7,229,924	29,873	3,011,613	607,769	28,832	Traitements, appointements et salaires
260,427	39,258	89,464	764,088	4,727	Combustible
4,720,734	28,663	5,021,493	388,040	20,413	Dépenses diverses
14,072,691	369	3,678,348	44,741	13,738	Achat d'énergie électrique
5,055,362	73,236	10,978,218	169,135	76,716	Total pour les usines commerciales
1,571,013	24,663	2,745,097	53,906	28,832	Traitements, appointements et salaires
219,614	26,454	37,271	90,888	4,727	Combustible
1,711,484	21,750	4,768,615	24,391	20,413	Dépenses diverses
1,553,251	369	3,427,425	—	13,738	Achat d'énergie électrique
1,300,609	•••	1,797,885	—	•••	Usines non productrices
3,754,753	•••	9,180,433	160,185	•••	Usines productrices
3,713,389	•••	9,155,237	—	•••	Usines hydrauliques
41,364	•••	25,196	169,185	•••	Usines à combustible
21,227,514	21,927	822,600	1,635,453	—	Total pour les usines municipales
5,658,011	5,210	266,606	553,863	—	Traitements, appointements et salaires
40,815	12,804	52,193	673,200	—	Combustible
3,000,250	0,913	252,878	363,649	—	Dépenses diverses
12,519,440	—	250,923	44,741	—	Achat d'énergie électrique
14,278,612	—	214,883	16,526	—	Usines non productrices
6,948,902	24,927	697,717	1,618,927	—	Usines productrices
6,873,584	—	382,956	—	—	Usines hydrauliques
75,318	24,927	224,761	1,618,927	—	Usines à combustible
15,679,221	•••	2,012,768	16,526	•••	Total des dépenses pour les usines non productrices
10,703,655	•••	9,788,150	1,788,112	•••	Total des dépenses pour les usines productrices
10,586,973	•••	9,538,193	—	•••	Usines hydrauliques
116,682	•••	249,957	1,788,112	•••	Usines à combustible

Tableau 8—Personnel, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
5,257 49-49	30 0-28	2,447 22-90	417 3-90	10 0-09	Total du personnel occupé
					Pourcentage dans chaque province
428	8	227	127	4	Administrateurs, directeurs, etc.
1,704	4	927	12	—	Commis et tous employés des bureaux
3,155	18	1,293	278	6	Ouvriers et journaliers
1,290	25	2,211	57	10	Personnel des usines commerciales
113	—	352	—	4	Non productrices
1,087	25	1,859	57	6	Productrices
1,077	7	1,851	—	3	Hydrauliques
10	18	8	57	3	A combustible
4,087	5	236	360	—	Personnel des usines municipales
3,324	—	50	5	—	Non productrices
763	5	186	355	—	Productrices
741	—	112	—	—	Hydrauliques
22	5	74	355	—	A combustible
3,437	—	402	5	4	Total du personnel des usines non productrices
1,850	30	2,045	412	6	Total du personnel des usines productrices
1,848	7	1,963	—	3	Hydrauliques
32	23	82	412	3	A combustible

Table 9—Number of Customers, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Number of Customers	1,053,545	54,960	94,904	73,565	22,735	37,100
Per cent of total for Canada	100.00	5.21	9.01	6.98	2.16	3.52
Commercial	164,199	6,927	17,244	13,713	5,450	7,733
Private	889,346	47,933	77,660	59,852	17,285	29,457
Total Number of Customers Commercial Stations	476,285	9,983	75,501	25,295	19,363	28,148
Non-generating	123,806	544	53,094	4,550	375	12,812
Generating	352,479	9,439	22,407	20,745	18,988	15,336
Hydraulic	309,206	3,539	21,034	20,521	3,532	1,928
Fuel	43,273	5,900	773	224	15,456	13,408
Total Number of Customers Municipal Stations	577,260	44,877	19,403	48,270	3,372	9,042
Non-generating	395,816	821	7,483	3,788	912	1,646
Generating	181,444	44,056	11,920	44,502	2,460	7,396
Hydraulic	77,881	—	6,658	40,926	796	2,705
Fuel	103,563	44,056	5,262	3,576	1,664	4,691
Total Number of Customers Non-Gener- ating Stations	519,622	1,365	60,577	8,318	1,287	14,458
Total Number of Customers Generating Stations	533,923	53,495	34,327	65,247	21,448	22,732
Hydraulic	387,087	3,530	28,202	61,447	4,328	4,633
Fuel	146,836	49,956	6,035	3,800	17,120	18,099
Average Number of Private Customers per 100 of population	9.92	7.84	14.41	9.55	4.41	5.58

Table 10—Pole Line Mileage, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Pole Line Mileage	22,669	981	3,042	1,462	614	872
Per cent of total for Canada	100.00	4.33	13.42	6.45	2.71	3.84
For transmission	8,296	199	909	428	163	185
For distribution	14,373	782	2,043	1,034	451	687
Total Pole Line Mileage—Commercial Sta- tions	11,123	306	2,552	640	503	613
Non-generating	3,121	23	1,300	139	27	146
Generating	8,002	283	1,252	501	476	469
Hydraulic	6,970	149	1,225	498	129	167
Fuel	1,032	134	27	13	347	355
Total Pole Line Mileage—Municipal Sta- tions	11,546	675	490	822	111	259
Non-generating	5,621	19	171	203	31	43
Generating	5,925	656	319	619	80	216
Hydraulic	4,320	—	189	551	42	115
Fuel	1,605	656	130	68	38	101
Total Pole Line Mileage—Non-Generat- ing Stations	8,742	42	1,471	342	58	197
Total Pole Line Mileage—Generating Stations	13,927	939	1,571	1,120	556	675
Hydraulic	11,290	149	1,414	1,039	171	216
Fuel	2,637	790	157	81	385	459

Tableau 9—Abonnés, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
441,569	3,337	286,598	38,305	482	Nombre d'abonnés
41-91	0-32	27-20	3-64	0-05	Pourcentage du total pour le Canada
82,131	581	21,874	8,411	135	Commerçants
359,438	2,756	264,724	29,894	347	Particuliers
59,185	2,877	251,529	3,922	482	Nombre total des abonnés des usines commerciales
13,788	32	38,263	-	348	Non productrices
45,397	2,845	213,266	3,922	134	Productrices
44,942	629	212,475	-	6	Hydrauliques
455	2,216	791	3,922	128	A combustible
382,384	460	35,069	34,383	-	Nombre total des abonnés des usines municipales
369,630	-	11,094	462	-	Non productrices
12,754	460	23,975	33,921	-	Productrices
10,970	-	15,826	-	-	Hydrauliques
1,784	460	8,149	33,921	-	A combustible
383,418	32	49,357	462	348	Nombre total des abonnés des usines non productrices
58,151	3,305	237,241	37,843	134	Nombre total des abonnés des usines productrices
56,912	629	228,301	-	6	Hydrauliques
3,239	2,676	8,940	37,843	128	A combustible
12-06	3-12	11-28	3-80	9-30	Nombre moy. d'abonnés (éclairage des maisons) par 100 habitants

Tableau 10—Longueur (en milles) des lignes sur poteaux, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
10,044	68	4,892	624	70	Longueur totale, en milles lignes sur poteaux
44-31	0-30	21-58	2-75	0-31	Pourcentage dans chaque province
4,037	21	2,173	32	59	Pour la transmission
6,007	47	2,719	592	11	Pour la distribution
1,885	59	4,392	103	70	Pour le service des usines commerciales
272	9	1,191	-	6	Non productrices
1,613	50	3,201	103	64	Productrices
1,601	34	3,182	-	61	Hydrauliques
12	16	19	103	3	A combustible
8,159	9	500	521	-	Pour le service des usines municipales
4,932	-	209	13	-	Non productrices
3,227	9	291	508	-	Productrices
3,178	-	245	-	-	Hydrauliques
49	9	46	508	-	A combustible
5,264	9	1,400	13	6	Pour le service des usines non productrices
4,940	59	3,492	611	64	Pour le service des usines productrices
4,779	34	3,427	-	61	Hydrauliques
61	25	65	611	3	A combustible

CENSUS OF INDUSTRY

Table 11—Equipment, 1922
TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT

		Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Primary Power	H.P.	2,408,655	90,533	260,390	104,692	24,555	36,612
Per cent of total for Canada	No.	100.00	3.76	10.81	4.34	1.02	1.53
Water-wheels and turbines	No.	629	14	55	19	19	23
Total capacity	H.P.	2,112,280	32,560	228,441	89,625	11,770	15,289
Steam engines	No.	224	55	20	19	21	35
Total capacity	H.P.	60,960	14,321	3,444	5,801	6,300	9,573
Steam turbines	No.	72	14	10	2	5	10
Total capacity	H.P.	218,655	41,650	26,400	8,000	5,075	11,545
Gas and oil engines	No.	232	39	13	16	9	6
Total capacity	H.P.	16,751	2,002	2,015	1,176	1,410	405
Total Dynamo Capacity	K.V.A.	1,858,413	70,431	173,415	86,088	17,443	29,912
Per cent of total for Canada	No.	100.00	3.79	9.33	4.63	0.94	1.61
Dynamos, A.C.	No.	929	81	95	45	45	64
Capacity	K.V.A.	1,846,365	67,429	173,075	85,879	16,584	28,107
Dynamos, D.C.	No.	186	37	5	10	7	12
Capacity	K.W.	12,048	3,002	340	209	859	1,805
Commercial Stations							
Total Primary Power	H.P.	1,681,136	39,787	244,165	33,241	22,280	29,355
Water-wheels and turbines	No.	470	14	45	7	16	9
Total capacity	H.P.	1,531,847	32,560	218,446	22,400	10,960	1,515
Steam Engines	No.	113	21	9	7	18	25
Total capacity	H.P.	31,184	4,630	1,169	3,471	5,885	7,850
Steam turbine	No.	38	2	8	2	5	7
Total capacity	H.P.	113,794	2,000	24,400	8,000	5,075	10,800
Gas and oil engines	No.	121	27	3	4	4	3
Total capacity	H.P.	4,311	597	90	70	360	190
Total Dynamo Capacity	K.V.A.	1,307,632	28,055	162,415	26,288	15,719	16,505
Dynamos, A.C.	No.	565	37	61	14	33	33
Capacity	K.V.A.	1,300,879	27,898	162,075	26,213	14,860	14,700
Dynamos, D.C.	No.	141	25	5	5	7	12
Capacity	K.W.	6,753	157	340	75	859	1,805
Municipal Stations							
Total Primary Power	H.P.	727,519	50,746	16,195	70,661	2,275	16,457
Water-wheels and turbines	No.	159	-	10	12	3	14
Total capacity	H.P.	580,442	-	9,995	67,225	810	13,774
Steam engines	No.	111	34	11	12	3	10
Total capacity	H.P.	29,776	9,691	2,275	2,330	415	1,723
Steam turbines	No.	34	12	2	-	-	3
Total capacity	H.P.	104,861	39,650	2,000	-	-	745
Gas and oil engines	No.	111	12	10	12	5	3
Total capacity	H.P.	12,440	1,405	1,925	1,106	1,050	215
Total Dynamo Capacity	K.V.A.	550,281	42,376	11,000	59,690	1,724	13,407
Dynamos, A.C.	No.	264	44	34	31	12	31
Capacity	K.V.A.	545,486	39,531	11,000	59,666	1,724	13,407
Dynamos, D.C.	No.	45	12	-	5	-	-
Capacity	K.W.	5,295	2,845	-	134	-	-

Table 12—Auxiliary Plant Equipment, 1922

Total Primary Power	H.P.	150,257	2,350	26,830	12,346	1,075	9,110
Per cent of total for Canada	No.	100.00	1.56	17.86	8.22	0.72	6.06
Steam reciprocating engines	No.	49	2	5	5	4	6
Total capacity	H.P.	20,476	1,250	1,130	4,106	1,075	2,285
Steam turbines	No.	31	1	9	2	-	2
Total capacity	H.P.	129,110	1,000	25,500	8,000	-	6,700
Gas and oil engines	No.	7	1	1	2	-	2
Total capacity	H.P.	671	100	200	240	-	125
Total Secondary Power	K.V.A.	122,211	2,100	29,590	10,525	597	8,154
Per cent of total for Canada	No.	100.00	1.72	16.85	8.61	0.49	6.67
Dynamos, A.C.	No.	72	4	16	9	3	10
Total capacity	K.V.A.	120,534	2,100	20,590	10,525	597	8,154
Dynamos, D.C.	No.	5	-	-	-	-	-
Total capacity	K.W.	1,680	-	-	-	-	-
Commercial Stations							
Total Primary Power	H.P.	115,907	2,350	23,950	11,206	709	8,829
Steam reciprocating engines	No.	28	2	1	3	2	4
Total capacity	H.P.	13,361	1,250	450	3,206	700	2,040
Steam turbines	No.	24	1	7	2	-	2
Total capacity	H.P.	102,360	1,000	23,500	8,000	-	6,700
Gas and oil engines	No.	3	1	-	-	-	1
Total capacity	H.P.	186	100	-	-	-	80
Total Secondary Power	K.V.A.	96,685	2,100	18,265	9,750	375	7,947
Dynamos, A.C.	No.	45	4	8	5	1	7
Total capacity	K.V.A.	96,255	2,100	18,265	9,750	375	7,947
Dynamos, D.C.	No.	3	-	-	-	-	-
Total capacity	K.W.	430	-	-	-	-	-
Municipal Stations							
Total Primary Power	H.P.	34,350	-	2,890	1,140	375	290
Steam reciprocating engines	No.	21	-	4	2	2	2
Total capacity	H.P.	7,115	-	680	900	375	245
Steam turbines	No.	7	-	2	-	-	-
Total capacity	H.P.	26,750	-	2,000	-	-	-
Gas and oil engines	No.	4	-	1	2	-	1
Total capacity	H.P.	485	-	200	240	-	45
Total Secondary Power	K.V.A.	25,529	-	2,325	775	222	307
Dynamos, A.C.	No.	27	-	8	4	2	3
Total capacity	K.V.A.	24,279	-	2,325	775	222	307
Dynamos, D.C.	No.	2	-	-	-	-	-
Total capacity	K.W.	1,250	-	-	-	-	-

Tableau 11—Machinerie, 1922
TOTAL DE LA MACHINERIE Y COMPRIS CELLE DES USINES AUXILIAIRES

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon		
1,037,447	1,832	790,915	51,409	10,220	Total force motrice primaire	H.P.
43-07	0-08	32-84	2-13	0-42	Pourcentage dans chaque province	
274	8	215	-	2	Turbines et roues hydrauliques	nomb.
969,067	279	755,258	-	10,000	Capacité totale	H.P.
20	3	20	21	1	Machines à vapeur	nomb.
7,365	560	7,595	5,941	60	Capacité totale	H.P.
9	-	8	13	1	Turbines à vapeur	nomb.
60,250	-	27,775	37,800	100	Capacité totale	H.P.
15	7	9	118	-	Moteurs à gaz et à pétrole	nomb.
765	993	317	7,668	-	Capacité totale	H.P.
865,281	1,480	623,468	44,715	6,180	Machinerie développant la force motrice secondaire	
43-33	0-08	33-55	2-41	0-33	Pourcentage dans chaque province	
284	13	221	78	3	Dynamos, C.A.	nomb.
802,858	1,469	621,878	42,936	6,150	Capacité totale	K.V.A.
20	2	14	71	2	Dynamos, C.D.	nomb.
2,423	11	1,590	1,779	30	Capital totale	K.W.
635,049	1,532	771,320	2,547	10,220	Total force motrice primaire	H.P.
178	8	191	-	2	Turbines et roues hydrauliques	nomb.
497,054	279	738,633	-	10,000	Capacité totale	H.P.
12	2	12	6	1	Machines à vapeur	nomb.
2,220	410	4,755	734	60	Capacité totale	H.P.
4	-	8	84	1	Turbines à vapeur	nomb.
35,500	-	27,775	61	160	Capacité totale	H.P.
7	6	6	1,729	-	Moteurs à gaz et à pétrole	nomb.
275	843	157	15	-	Capacité totale	H.P.
410,458	1,180	609,161	1,671	6,180	Machinerie développant la force motrice secondaire	
170	11	188	15	3	Dynamos, C.A.	nomb.
307,307	1,169	607,583	924	6,150	Capacité totale	K.V.A.
20	2	12	51	2	Dynamos, C.D.	nomb.
1,151	11	1,578	747	30	Capital totale	K.W.
502,388	300	19,625	48,862	-	Usines municipales	
96	-	24	-	-	Total force motrice primaire	H.P.
472,013	-	16,625	-	-	Turbines et roues hydrauliques	nomb.
17	1	8	15	-	Capacité totale	H.P.
5,145	150	2,840	5,207	-	Machines à vapeur	nomb.
5	-	-	12	-	Capacité totale	H.P.
24,760	-	-	37,716	-	Turbines à vapeur	nomb.
8	1	3	57	-	Capacité totale	H.P.
490	150	160	5,939	-	Moteurs à gaz et à pétrole	nomb.
364,823	300	14,307	43,844	-	Capacité totale	H.P.
114	2	33	63	-	Machinerie développant la force motrice secondaire	
363,551	300	14,295	42,012	-	Dynamos, C.A.	nomb.
6	-	2	20	-	Capacité totale	K.V.A.
1,272	-	12	1,032	-	Dynamos, C.D.	nomb.
					Capital totale	K.W.

Tableau 12—Machines des usines auxiliaires, 1922

65,715	66	32,605	-	160	Total force motrice primaire	H.P.
43-73	0-04	21-70	-	0-11	Pourcentage dans chaque province	
15	1	11	-	-	Machines à vapeur	nomb.
5,465	60	5,105	-	-	Capacité totale	H.P.
9	-	7	-	1	Turbines à vapeur	nomb.
60,250	-	27,500	-	160	Capacité totale	H.P.
-	1	-	-	-	Moteurs à gaz et à pétrole	nomb.
-	6	-	-	-	Capacité totale	H.P.
53,528	-	26,570	-	150	Machinerie développant la force motrice secondaire	
43-80	-	21-74	-	0-12	Pourcentage dans chaque province	
17	-	12	-	1	Dynamos, C.A.	nomb.
52,128	-	26,290	-	150	Capacité totale	K.V.A.
3	-	2	-	-	Dynamos, C.D.	nomb.
1,400	-	280	-	-	Capital totale	K.W.
36,690	66	31,965	-	160	Usines commerciales	
6	1	9	-	-	Total force motrice primaire	H.P.
1,190	60	4,465	-	-	Machines à vapeur	nomb.
4	-	7	-	1	Capacité totale	H.P.
35,500	-	27,500	-	160	Turbines à vapeur	nomb.
-	1	-	-	-	Capacité totale	H.P.
-	6	-	-	-	Moteurs à gaz et à pétrole	nomb.
31,528	-	26,570	-	150	Capacité totale	H.P.
7	-	12	-	1	Machinerie développant la force motrice	K.V.A.
31,378	-	26,290	-	150	Dynamos, C.A.	nomb.
1	-	2	-	-	Capacité totale	K.V.A.
150	-	280	-	-	Dynamos, C.D.	nomb.
					Capital totale	K.W.
29,025	-	640	-	-	Usines municipales	
9	-	2	-	-	Total force motrice primaire	H.P.
4,275	-	640	-	-	Machines à vapeur	nomb.
5	-	-	-	-	Capacité totale	H.P.
24,760	-	-	-	-	Turbines à vapeur	nomb.
-	-	-	-	-	Capacité totale	H.P.
-	-	-	-	-	Moteurs à gaz et à pétrole	nomb.
22,000	-	-	-	-	Capacité totale	H.P.
10	-	-	-	-	Machinerie développant la force motrice	K.V.A.
20,750	-	-	-	-	Dynamos, C.A.	nomb.
2	-	-	-	-	Capacité totale	K.V.A.
1,250	-	-	-	-	Dynamos, C.D.	nomb.
					Capital totale	K.W.

Table 13—Main Plant Equipment, 1922

		Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouvelle- Brunswick	Nova Scotia — Nouvelle- Ecosse
Total Primary Power	H.P.	2,258,398	88,183	233,470	92,256	23,480	27,702
Per cent of total for Canada.....		100.00	3.90	10.34	4.08	1.04	1.23
Water-wheel and turbines.....	No.	629	14	55	19	19	23
Total capacity.....	H.P.	2,112,289	32,560	228,441	89,625	11,770	15,280
Steam reciprocating engines.....	No.	175	53	15	14	17	29
Total capacity.....	H.P.	40,484	13,071	2,314	1,695	5,225	7,288
Steam turbines.....	No.	41	13	1	—	5	8
Total capacity.....	H.P.	89,545	40,650	900	—	5,075	4,845
Gas and oil engines.....	No.	225	38	12	14	9	4
Total capacity.....	H.P.	16,080	1,902	1,815	936	1,410	280
Boilers	No.	326	112	18	19	30	51
Total capacity.....	H.P.	67,924	27,740	1,783	2,030	5,921	9,030
Per cent of total for Canada.....		100	40.84	2.62	2.90	8.72	13.29
Total Dynamo Capacity	K.V.A.	1,736,199	68,331	152,825	75,563	16,846	21,758
Per cent of total for Canada.....		100	3.94	8.80	4.35	0.97	1.25
Dynamos, A.C.....	No.	857	77	79	26	42	54
Total capacity.....	K.V.A.	1,725,831	65,329	152,485	75,354	16,987	19,953
Dynamos, D.C.....	No.	181	37	5	10	7	12
Total capacity.....	K.W.	10,368	3,002	340	209	859	1,805
Commercial Stations							
Total Primary Power	H.P.	1,565,229	37,437	220,155	22,735	21,580	11,535
Per cent of total for Canada.....		100.00	2.39	14.07	1.45	1.38	0.74
Water-wheels and turbines.....	No.	470	14	45	7	16	9
Total capacity.....	H.P.	1,531,847	32,560	218,446	22,400	10,960	1,545
Steam reciprocating engines.....	No.	85	19	8	4	16	21
Total capacity.....	H.P.	17,823	3,380	719	265	5,185	5,810
Steam turbines.....	No.	14	1	—	—	5	5
Total capacity.....	H.P.	11,434	1,000	900	—	5,075	4,100
Gas and oil engines.....	No.	118	26	3	4	4	2
Total capacity.....	H.P.	4,125	497	90	70	360	110
Boilers	No.	132	27	9	6	5	27
Total capacity.....	H.P.	20,945	3,740	859	560	2,721	6,730
Per cent of total for Canada.....		100	17.86	4.10	2.67	27.31	32.13
Total Dynamo Capacity	K.V.A.	1,210,947	25,955	144,150	16,534	15,344	8,558
Per cent of total for Canada.....		100	2.14	11.90	1.36	1.27	0.71
Dynamos, A.C.....	No.	520	33	53	9	32	26
Total capacity.....	K.V.A.	1,204,624	25,798	143,810	16,463	14,485	6,753
Dynamos, D.C.....	No.	138	25	5	5	7	12
Total capacity.....	K.W.	6,323	157	340	75	859	1,805
Municipal Stations							
Total Primary Power	H.P.	693,169	50,746	13,315	69,521	1,900	16,167
Per cent of total for Canada.....		100	7.32	1.92	10.03	0.28	2.33
Water-wheels and turbines.....	No.	159	—	10	12	3	14
Total capacity.....	H.P.	580,442	—	9,995	67,225	810	13,774
Steam reciprocating engines.....	No.	90	34	7	10	1	8
Total capacity.....	H.P.	22,661	9,691	1,595	1,430	40	1,478
Steam turbines.....	No.	27	12	—	—	—	3
Total capacity.....	H.P.	78,111	39,650	—	—	—	745
Gas and oil engines.....	No.	107	12	9	10	5	2
Total capacity.....	H.P.	11,955	1,405	1,725	896	1,059	170
Boilers	No.	194	85	9	13	3	13
Total capacity.....	H.P.	46,979	24,000	924	1,470	200	2,300
Per cent of total for Canada.....		100.00	51.09	1.97	3.13	0.42	4.89
Total Dynamo Capacity	K.V.A.	525,252	42,376	8,675	50,825	1,502	13,200
Per cent of total for Canada.....		100.00	8.07	1.65	11.24	0.29	2.51
Dynamos, A.C.....	No.	337	44	26	27	10	28
Total capacity.....	K.V.A.	521,207	39,531	8,675	58,891	1,502	13,200
Dynamos, D.C.....	No.	43	12	—	5	—	—
Total capacity.....	K.W.	4,045	2,845	—	134	—	—
Hydraulic Stations							
Total Dynamo Capacity	K.V.A.	1,617,281	22,350	148,752	73,662	8,613	12,710
Per cent of total for Canada.....		100.00	1.38	9.20	4.55	0.54	0.79
Dynamos, A.C.....	No.	583	10	55	19	16	24
Total capacity.....	K.V.A.	1,615,419	22,350	148,682	73,662	8,613	12,710
Dynamos, D.C.....	No.	20	—	2	—	—	—
Total capacity.....	K.W.	1,862	—	70	—	60	—
Fuel Stations							
Total Dynamo Capacity	K.V.A.	118,918	45,881	4,073	1,901	8,173	9,048
Per cent of total for Canada.....		100.00	38.67	3.42	1.60	6.87	7.61
Dynamos, A.C.....	No.	274	67	24	17	26	30
Total capacity.....	K.V.A.	110,412	42,979	3,803	1,692	7,374	7,243
Dynamos, D.C.....	No.	161	37	3	10	5	12
Total capacity.....	K.W.	8,506	3,002	270	209	799	1,805

Tableau 13—Machines des usines principales, 1922

Ontario	Prince Edward Is. Ile du Prince-Edouard	Quebec	Saskat- chewan	Yukon	
871,732	1,765	758,340	51,469	10,060	Machinerie fournissant la force motrice primaire H.P.
43-03	0-08	33-58	2-28	0-44	Pourcentage dans chaque province
274	8	215	-	2	Turbines et roues hydrauliques..... nomb.
989,067	279	755,258	-	10,000	Capacité totale..... H.P.
14	2	9	21	1	Machines à vapeur..... nomb.
1,900	500	2,490	5,941	60	Capacité totale..... H.P.
-	-	1	13	-	Turbines à vapeur..... nomb.
-	-	275	37,800	-	Capacité totale..... H.P.
15	0	9	118	-	Moteurs à gaz et à pétrole..... nomb.
765	987	317	7,668	-	Capacité totale..... H.P.
17	2	15	61	1	Chaudières..... nomb.
2,030	500	2,920	15,910	66	Capacité totale..... H.P.
2-09	0-74	4-30	13-42	0-09	Pourcentage dans chaque province
751,753	1,480	596,898	44,715	6,030	Capacité totale de l'ensemble des dynamos..... K.V.A.
43-30	0-09	34-38	2-57	0-35	Pourcentage dans chaque province
267	13	209	78	2	Dynamos, C.A..... nomb.
790,730	1,469	595,588	42,936	6,000	Capacité totale..... K.V.A.
23	2	12	71	2	Dynamos, C.D..... nomb.
1,023	11	1,310	1,779	30	Capacité totale..... K.W.
Usines commerciales					
498,359	1,466	739,355	2,547	10,060	Machinerie fournissant la force motrice primaire H.P.
31-84	0-09	47-24	0-16	0-64	Pourcentage dans chaque province
178	8	191	-	2	Turbines et roues hydrauliques..... nomb.
497,054	279	738,633	-	10,000	Capacité totale..... H.P.
6	1	3	6	1	Machines à vapeur..... nomb.
1,030	350	200	734	60	Capacité totale..... H.P.
-	-	1	1	-	Turbines à vapeur..... nomb.
-	-	275	84	-	Capacité totale..... H.P.
7	5	6	61	-	Moteurs à gaz et à pétrole..... nomb.
275	837	157	1,729	-	Capacité totale..... H.P.
8	1	7	8	1	Chaudières..... nomb.
1,125	250	1,050	850	60	Capacité totale..... H.P.
5-37	1-20	5-01	4-06	0-29	Pourcentage dans chaque province
468,930	1,180	582,591	1,671	6,030	Capacité totale de l'ensemble des dynamos..... K.V.A.
33-77	0-10	48-11	0-14	0-50	Pourcentage dans chaque province
163	11	176	15	2	Dynamos, C.A..... nomb.
407,029	1,169	581,293	924	6,000	Capacité totale..... K.V.A.
19	2	10	51	2	Dynamos, C.D..... nomb.
1,001	11	1,298	747	30	Capacité totale..... K.W.
Usines municipales					
473,373	300	18,985	48,862	-	Machinerie fournissant la force motrice primaire H.P.
68-29	0-04	2-74	7-05	-	Pourcentage dans chaque province
96	-	24	-	-	Turbines et roues hydrauliques..... nomb.
472,613	-	16,625	-	-	Capacité totale..... H.P.
8	1	6	15	-	Machines à vapeur..... nomb.
870	150	2,200	5,207	-	Capacité totale..... H.P.
-	-	-	12	-	Turbines à vapeur..... nomb.
-	-	-	37,716	-	Capacité totale..... H.P.
8	1	3	57	-	Moteurs à gaz et à pétrole..... nomb.
420	150	160	5,939	-	Capacité totale..... H.P.
9	1	8	53	-	Chaudières..... nomb.
905	250	1,870	15,060	-	Capacité totale..... H.P.
1-03	0-53	3-98	32-06	-	Pourcentage dans chaque province
342,823	300	14,307	43,044	-	Capacité totale de l'ensemble des dynamos..... K.V.A.
05-27	0-06	2-72	8-19	-	Pourcentage dans chaque province
104	2	33	63	-	Dynamos, C.A..... nomb.
342,801	300	14,295	42,012	-	Capacité totale..... K.V.A.
4	-	2	20	-	Dynamos, C.D..... nomb.
22	-	12	1,032	-	Capacité totale..... K.W.
Les Usines Hydrauliques					
750,077	332	594,725	-	6,000	Capacité de l'ensemble des dynamos..... K.V.A.
46-38	0-02	36-77	-	0-37	Pourcentage dans chaque province
254	6	197	-	2	Dynamos, C.A..... nomb.
749,638	324	593,440	-	6,000	Capacité totale..... K.V.A.
8	1	7	-	-	Dynamos, C.D..... nomb.
439	8	1,285	-	-	Capacité totale..... K.W.
Les Usines à combustible					
1,676	1,148	2,173	44,715	30	Capacité totale de l'ensemble des dynamos..... K.V.A.
1-41	0-96	1-83	37-60	0-03	Pourcentage dans chaque province
13	7	12	78	-	Dynamos, C.A..... nomb.
1,092	1,145	2,148	42,936	-	Capacité totale..... K.V.A.
15	1	5	71	2	Dynamos, C.D..... nomb.
584	3	25	1,779	30	Capacité totale..... K.W.

Table 14—Main Plant Equipment Classified, 1922

No.		Canada	Alberta	British Columbia — Colombie Britannique	Manitoba
1	Primary Power—Force motrice primaire	2,258,398	88,183	233,470	82,256
2	Water-wheels and turbines—Roues hydrauliques et turbines—				
3	Total..... No.	629	14	55	19
4	Total H.P.	2,112,289	32,560	228,441	89,625
5	Under—Au-dessous de 500 H.P..... No.	225	8	12	1
6	Total H.P.	39,223	960	2,503	1,25
7	500-2,000 H.P..... No.	188	—	19	2
8	Total H.P.	201,431	—	21,336	1,000
9	2,000-5,000 H.P..... No.	77	2	7	2
10	Total H.P.	219,035	8,000	21,600	4,400
11	5,000-10,000 H.P..... No.	56	4	6	14
12	Total H.P.	358,700	23,600	46,000	82,100
13	10,000-15,000 H.P..... No.	52	—	11	—
14	Total H.P.	604,400	—	137,000	—
15	15,000-55,000 H.P..... No.	31	—	—	—
16	Total H.P.	689,500	—	—	—
17	Steam Engines and Turbines—Machines et turbines à vapeur—				
18	Total..... No.	216	66	16	14
19	Total H.P.	130,029	53,721	3,214	1,695
20	Steam Reciprocating Engines—Machines à vapeur—				
21	Total..... No.	175	53	15	14
22	Total H.P.	40,484	13,071	2,314	1,695
23	Under—Au-dessous de 500 H.P..... No.	156	45	14	14
24	Total H.P.	25,704	6,501	1,814	1,695
25	500 up..... No.	19	8	1	—
26	Total H.P.	14,780	6,570	500	—
27	Steam Turbines—Turbines à vapeur—				
28	Total..... No.	41	13	1	—
29	Total H.P.	89,545	40,650	900	—
30	Under—Au-dessous de 500 H.P..... No.	7	—	—	—
31	Total H.P.	1,384	—	—	—
32	500-2,000 H.P..... No.	14	3	1	—
33	Total H.P.	12,401	3,000	900	—
34	2,000-5,000 H.P..... No.	15	7	—	—
35	Total H.P.	43,160	18,450	—	—
36	5,000-10,000 H.P..... No.	5	3	—	—
37	Total H.P.	32,600	19,200	—	—
38	Gas and Oil Engines—Moteurs à gaz et à pétrole—				
39	Total..... No.	225	38	12	14
40	Total H.P.	16,080	1,902	1,815	936
41	Secondary Power—Force motrice secondaire				
42	Dynamos, A.C. and D.C.—C.A. et C.D..... Total..... No.	1,038	114	84	46
43	Total K.V.A.	1,736,199	68,331	152,825	75,563
44	Dynamos A.C.—C.A..... Total..... No.	857	77	79	36
45	Total K.V.A.	1,725,831	65,329	152,485	75,354
46	Under—Au-dessous de 200 K.V.A..... No.	311	47	27	15
47	Total K.V.A.	29,169	3,918	2,816	1,267
48	200-500 K.V.A..... No.	131	9	14	5
49	Total K.V.A.	39,460	2,706	4,806	1,487
50	500-1,000 K.V.A..... No.	143	4	11	—
51	Total K.V.A.	103,898	2,830	9,338	—
52	1,000-5,000 K.V.A..... No.	162	14	12	10
53	Total K.V.A.	373,742	38,375	24,275	34,350
54	5,000-10,000 K.V.A..... No.	65	3	15	6
55	Total K.V.A.	479,862	17,500	111,250	38,250
56	10,000-15,000 K.V.A..... No.	33	—	—	—
57	Total K.V.A.	383,700	—	—	—
58	15,000 up..... No.	12	—	—	—
59	Total K.V.A.	316,000	—	—	—
60	Dynamos, D.C.—C.D..... Total..... No.	181	37	5	10
61	Total K.W.	10,368	3,002	340	209
62	Under—Au-dessous de 200 K.W..... No.	163	32	4	10
63	Total K.W.	3,268	352	140	209
64	200-500 K.W..... No.	13	2	1	—
65	Total K.W.	4,000	800	200	—
66	500-1,000 K.W..... No.	5	3	—	—
67	Total K.W.	3,100	1,850	—	—

Table 15—Electric Energy Generated, 1922

	Canada	Alberta	British Columbia — Colombie Britannique	Manitoba	New Brunswick — Nouveau- Brunswick	Nova Scotia — Nouvelle- Ecosse
ALL STATIONS						
Total K.W. Hours Generated (thousands)	6,740,756	122,568	522,675	262,625	37,009	28,910
Per cent of Total for Canada.....	100	1.82	7.75	3.90	0.55	0.55
K.W. hours Generated by Non-Generating Stations.....	13,076	30	140	500	-	8,124
K.W. Hours Generated by Generating station Stations.....	6,727,674	122,538	522,535	262,125	37,009	28,786
K.V.A. Capacity of Generating Stations.....	1,822,452	70,356	173,040	85,476	17,221	22,165
Ratio of output to maximum capacity (per cent)	42.1	19.9	34.5	35.0	24.5	14.8
Average K.W. hours per K.V.A.....	3,692	1,742	3,020	3,067	2,149	1,299
Commercial Stations						
Total						
K.W. hours Generated..... (thousands)	5,111,456	69,590	506,947	115,751	33,782	14,359
K.V.A. Capacity.....	1,294,337	27,980	162,415	26,288	15,719	8,963
Ratio of output to maximum Capacity (p.c.)	45.1	28.4	35.6	50.3	24.5	18.3
Average K.W. hours per K.V.A.....	3,949	2,487	3,121	4,403	2,149	1,702
Hydraulic						
K.W. hours Generated..... (thousands)	5,073,213	66,224	504,570	115,613	17,973	1,829
K.V.A. Capacity.....	1,270,538	24,375	160,702	26,100	8,385	1,843
Ratio of output to maximum Capacity (p.c.)	45.6	31.0	35.8	50.6	24.5	11.3
Average K.W. hours per K.V.A.....	3,993	2,717	3,140	4,430	2,143	990
Fuel						
K.W. hours Generated..... (thousands)	38,243	3,366	2,377	138	15,809	125.30
K.V.A. Capacity.....	23,799	3,605	1,713	188	7,334	7,117
Ratio of output to maximum Capacity (p.c.)	18.3	10.7	15.8	8.4	24.6	20.1
Average K.W. hours per K.V.A.....	1,607	934	1,388	734	2,156	1,761
Municipal Stations						
Total						
K.W. hours Generated..... (thousands)	1,616,218	52,948	15,588	146,374	3,227	14,427
K.V.A. Capacity.....	528,115	42,376	10,625	59,188	1,502	13,200
Ratio of output to maximum Capacity (p.c.)	34.0	14.3	16.8	28.2	24.5	12.5
Average K.W. hours per K.V.A.....	3,060	1,249	1,467	2,473	2,148	1,093
Hydraulic						
K.W. hours Generated..... (thousands)	1,496,878	-	12,823	144,694	2,020	12,200
K.V.A. Capacity.....	432,996	-	8,265	57,475	663	11,200
Ratio of output to maximum Capacity (p.c.)	39.5	-	17.7	28.7	34.8	12.4
Average K.W. hours per K.V.A.....	3,457	-	1,551	2,518	3,047	1,083
Fuel						
K.W. hours Generated..... (thousands)	119,340	52,948	2,765	1,680	1,207	2,227
K.V.A. Capacity.....	95,119	42,376	2,360	1,713	839	1,931
Ratio of output to maximum Capacity (p.c.)	14.3	14.3	13.4	11.2	16.4	13.2
Average K.W. hours per K.V.A.....	1,255	1,249	1,172	981	1,439	1,153
Total Hydraulic						
K.W. hours Generated..... (thousands)	6,570,091	66,224	517,393	260,307	19,993	14,209
K.V.A. Capacity.....	1,703,534	24,375	168,967	83,575	9,048	13,117
Ratio of output to maximum Capacity (p.c.)	44.0	31.0	35.0	35.6	25.2	12.2
Average K.W. hours per K.V.A.....	3,857	2,717	3,062	3,115	2,210	1,070
Total Fuel						
K.W. hours Generated..... (thousands)	157,583	56,314	5,142	1,818	17,016	14,757
K.V.A. Capacity.....	118,918	45,981	4,073	1,901	8,173	9,048
Ratio of output to maximum Capacity (p.c.)	15.1	14.0	14.4	10.9	23.8	18.6
Average K.W. hours per K.V.A.....	1,325	1,225	1,262	956	2,082	1,631

*See page 9 for explanation.

Tableau 15—Energie électrique produite, 1922

Ontario	Prince Edward Is. — Ile du Prince-Edouard	Quebec	Saskatchewan	Yukon	
TOUTES USINES					
3,151,460	1,368	2,539,874	57,624	8,637	Total K.W. heures produits (milliers)
46.75	0.02	37.68	0.85	0.13	Pourcentage du total pour le Canada
202	—	80	—	—	K.W. heures produits par les usines non génératrices
3,147,258	1,368	2,539,794	57,624	8,637	K.W. heures produits par les usines génératrices
784,031	1,480	617,938	44,715	6,030	Capacité des usines génératrices en K.V.A.
45.8	10.5	46.9	14.7	16.3	Proportion de la production à la capacité (p.c.)
4,014	924	4,110	1,289	1,432	Moyenne des K.W. heures par K.V.A.
Usines commerciales					
Total					
1,898,042	1,212	2,507,934	1,202	8,637	K.W. heures produits (milliers)
440,458	1,180	603,631	1,671	6,030	Capacité en K.V.A.
48.0	11.7	47.4	8.2	16.3	Proportion du rendement à la capacité (p.c.)
4,265	1,027	4,155	719	1,432	Moyenne des K.W. heures par K.V.A.
Hydrauliques					
1,851,299	78	2,507,028	—	8,599	W.K. heures produits (milliers)
439,683	332	603,113	—	6,000	Capacité en K.V.A.
48.1	2.7	47.5	—	16.4	Proportion de la production à la capacité (p.c.)
4,211	235	4,157	—	1,433	Moyenne des K.W. heures par K.V.A.
A combustible					
743	1,134	906	1,202	38	K.W. heures produits (milliers)
775	848	518	1,671	30	Capacité en K.V.A.
10.9	15.3	20.0	8.2	14.5	Proportion de la production à la capacité (p.c.)
959	1,337	1,749	719	1,267	Moyenne des K.W. heures par K.V.A.
Usines municipales					
Total					
1,295,216	156	31,860	56,422	—	K.W. heures produits (milliers)
343,573	360	14,307	43,044	—	Capacité en K.V.A.
43.0	6.0	25.4	15.0	—	Proportion de la production à la capacité (p.c.)
3,770	520	2,227	1,311	—	Moyenne des K.W. heures par K.V.A.
Hydrauliques					
1,294,442	—	30,699	—	—	K.W. heures produits (milliers)...
342,672	—	12,652	—	—	Capacité en K.V.A.
43.2	—	27.7	—	—	Proportion de la production à la capacité (p.c.)
3,777	—	2,426	—	—	Moyenne des K.W. heures par K.V.A.
A combustible					
774	166	1,161	56,422	—	K.W. heures produits (milliers)
901	300	1,655	43,044	—	Capacité en K.V.A.
9.8	5.9	8.0	15.0	—	Proportion de la production à la capacité (p.c.)
859	520	702	1,311	—	Moyenne des K.W. heures par K.V.A.
Total hydrauliques					
3,145,741	78	2,537,727	—	8,599	K.W. heures produits (milliers)
782,355	332	615,765	—	6,000	Capacité en K.V.A.
45.0	2.7	47.0	—	16.4	Proportion de la production à la capacité (p.c.)
4,021	235	4,121	—	1,433	Moyenne des K.W. heures par K.V.A.
Total à combustible					
1,517	1,290	2,067	57,624	38	K.W. heures produits (milliers)
1,676	1,148	2,173	44,715	30	Capacité en K.V.A.
10.3	12.8	10.9	14.7	14.5	Proportion de la production à la capacité (p.c.)
905	1,123	951	1,289	1,267	Moyenne des K.W. heures par K.V.A.

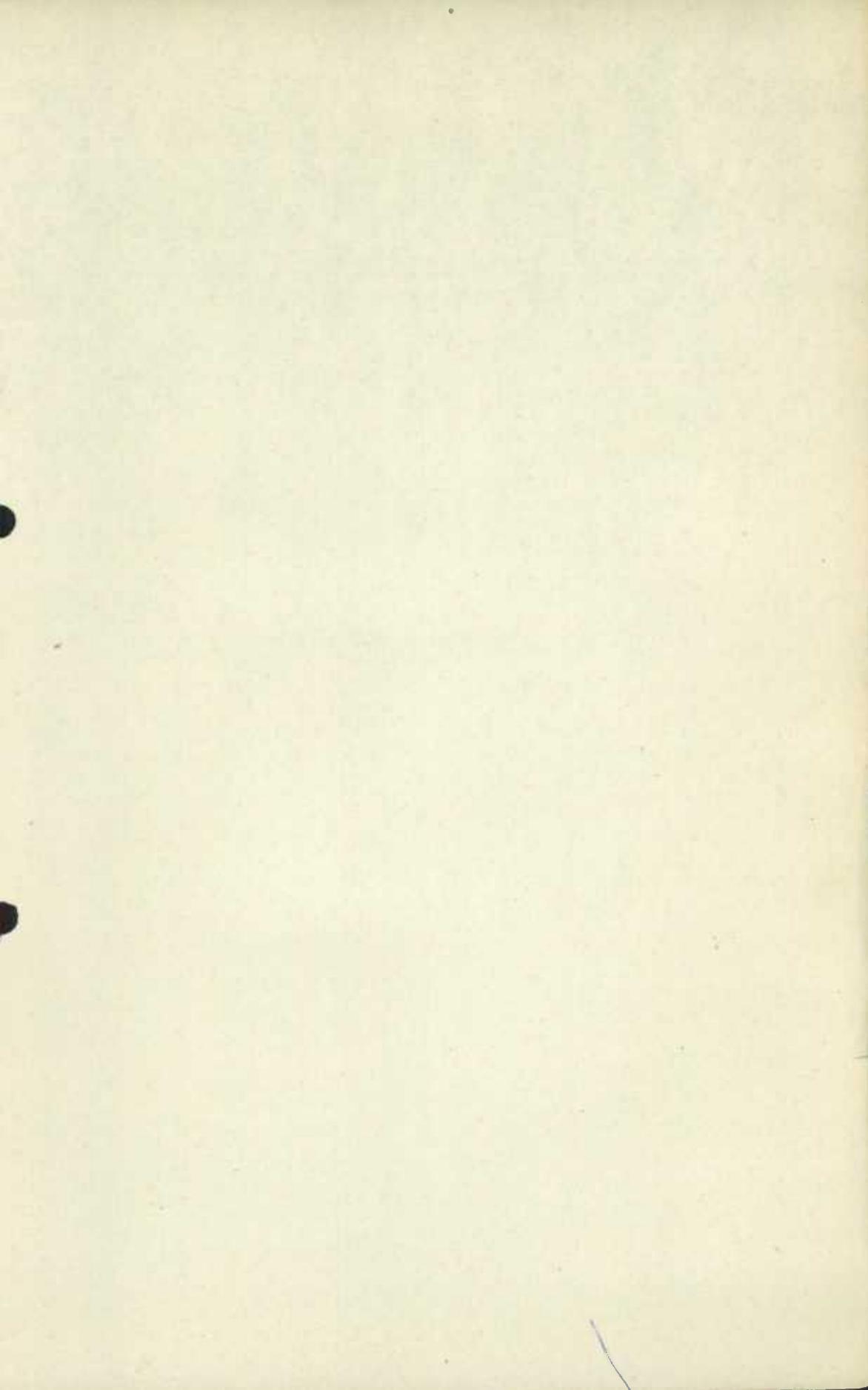
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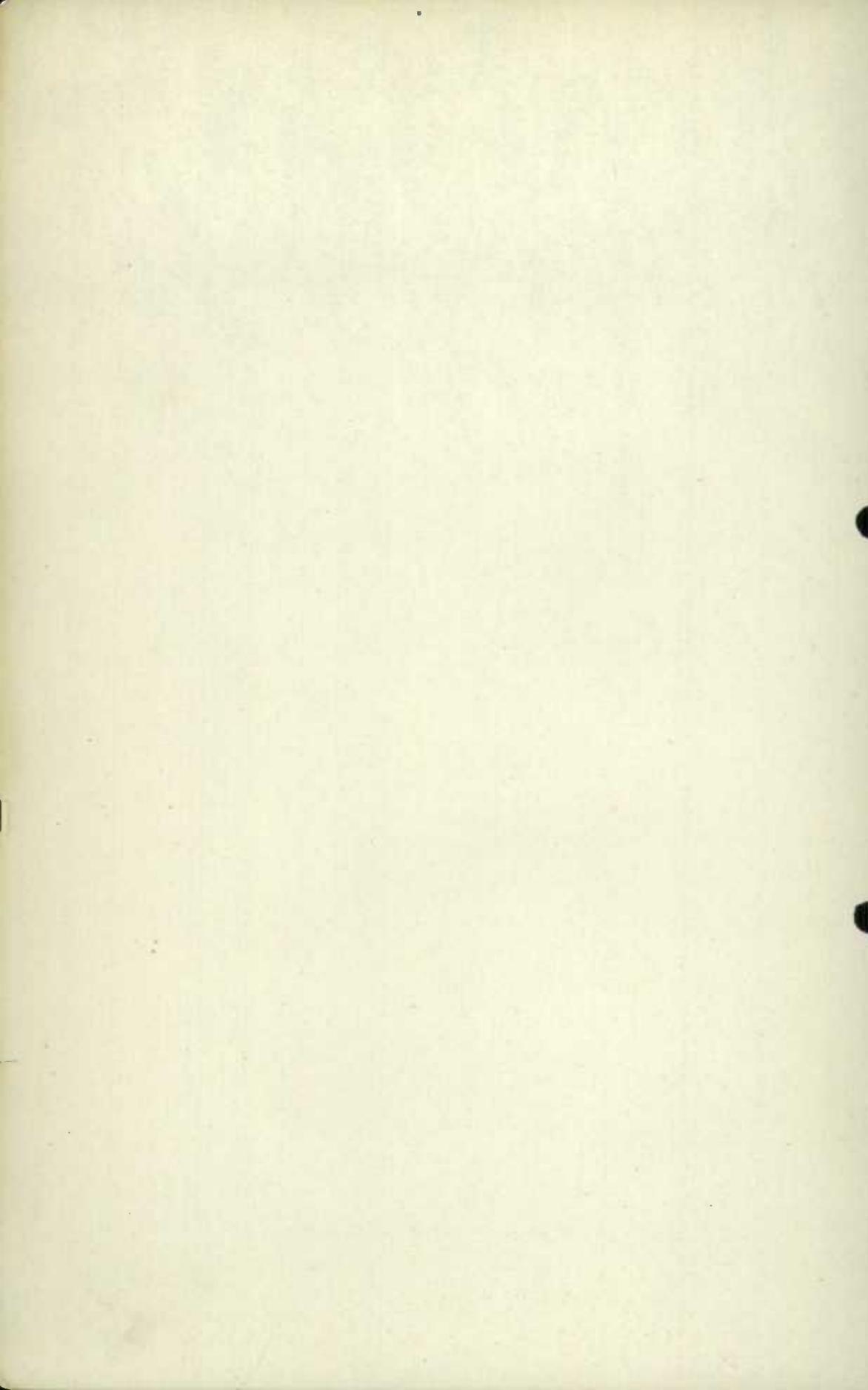
Table 16—Fuel, 1922

Tableau 16—Combustible, 1922

Province	Coal Charbon		Coke Coke		Gasoline and Coal Oil Gazoline et huile de charbon		Fuel Oil Pétrole	
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	ton tonnes	\$	ton tonnes	\$	gal. gal.	\$	gal. gal.	\$
Canada	480,045	2,285,268	505	3,231	232,174	76,400	1,662,809	186,499
Alberta.....	187,322	442,349	1	37	40,155	13,206	6,657	1,580
British Columbia.....	10,068	58,938	-	-	1,277	415	1,253,734	93,156
Manitoba.....	28,828	206,294	400	1,800	18,575	6,370	104,540	18,365
New Brunswick.....	32,330	233,041	-	-	9,486	2,436	91,000	11,018
Nova Scotia.....	63,438	361,206	102	1,377	-	-	29,915	4,726
Ontario.....	28,392	238,775	-	-	8,837	2,060	3,100	3,098
Prince Edward Island.....	3,397	38,574	-	-	950	284	-	-
Quebec.....	8,712	78,968	-	-	7,555	2,706	1,384	1,420
Saskatchewan.....	117,558	637,123	2	17	145,339	49,007	172,479	53,220
Yukon.....	-	-	-	-	-	-	-	-

	Wood Bois		Gas Gaz		Other Fuel Autre combustible	Total
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Value Valeur	Value Valeur
	cord corde	\$	1,000 cu. ft. 1,000 pd cu.	\$	\$	\$
Canada	17,169	84,331	449,398	17,617	13,120	2,676,556
Alberta.....	3	23	442,039	14,403	-	471,688
British Columbia.....	3,379	14,755	-	-	3,504	170,768
Manitoba.....	4,000	22,746	-	-	230	255,811
New Brunswick.....	300	1,000	5,809	2,324	-	249,819
Nova Scotia.....	135	575	-	-	2,622	370,506
Ontario.....	2,043	15,784	2,150	800	-	260,427
Prince Edward Island.....	100	400	-	-	-	39,258
Quebec.....	5	15	-	-	6,349	89,422
Saskatchewan.....	5,740	24,306	-	-	415	764,086
Yukon.....	564	4,727	-	-	-	4,727





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