

TABLE 2—CENTRAL ELECTRIC STATIONS:—SUMMARY OF TOTAL INSTALLED CAPACITY OF STATIONS INCLUDING—AUXILIARY STAND-BY PLANTS, BY KINDS OF MACHINES, AND BY PROVINCES—JANUARY 1ST, 1919

PROVINCES 1	PRIMARY POWER										DYNAMOS			
	Total Horse Power						Gas and Oil Engines Total Horse Power				Total K. V. A. Capacity			
	Steam Engines and Turbines Total Horse Power		Auxiliary Plant Equipment only		Not Including Aux. Plant Equipm't		Including Aux. Plant Equipm't		Not Including Aux. Plant Equipm't		Including Aux. Plant Equipm't		Not Including Aux. Plant Equipm't	
	Including Aux. Plant Equipment	Not Including Aux. Plant Equipment	Auxiliary Plant Equipment only	Including Aux. Plant Equipm't	Not Including Aux. Plant Equipm't	Aux. Plant Equipm't only	Including Aux. Plant Equipm't	Not Including Aux. Plant Equipm't	Aux. Plant Equipm't only	Water Wheels and Turbines Total Horse Power	Including Aux. Plant Equipm't	Not Including Aux. Plant Equipm't	Aux. Plant Equipm't only	Aux. Plant Equipm't only
2	3	4	5	6	7	8	9	10	11	12	13	14	14	
Canada	1,958,642	1,841,114	117,528	262,562	145,637	116,925	13,889	13,286	603	1,682,191	1,525,533	1,433,722	91,811	
Alberta	78,320	75,915	2,405	44,380	41,975	2,405	1,340	1,340	..	32,600	60,143	58,193	1,950	
British Columbia	243,964	217,184	26,780	30,606	4,326	26,280	2,315	1,815	500	211,043	159,140	138,225	20,915	
Manitoba	94,542	75,142	19,400	22,090	2,690	19,400	662	662	..	71,790	64,711	50,961	13,750	
New Brunswick	19,063	18,563	500	11,010	10,510	500	1,075	1,075	..	6,978	12,836	12,836	..	
Nova Scotia	20,315	19,565	750	16,481	15,811	670	220	140	80	3,614	18,691	18,235	456	
Ontario	819,743	780,213	39,530	73,140	33,625	39,515	2,382	2,367	15	744,221	661,020	628,109	32,911	
Prince Edward Island	1,353	1,353	..	425	425	..	701	701	..	227	1,321	1,321	..	
Quebec	639,907	611,744	28,163	37,895	9,740	28,155	294	286	8	601,718	514,296	492,467	21,829	
Saskatchewan	31,215	31,215	..	26,315	26,315	..	4,900	4,900	..	..	27,195	27,195	..
Yukon	10,220	10,220	..	220	220	..	..	..	..	10,000	6,180	6,180	..

Financial Statistics

A summary of the financial statistics for the Dominion is contained in table 1, while the provincial totals of the capital invested are given in table 4. In the latter table are also given the capital invested in hydro central electric stations and systems together with the investment per installed primary horse power.

For the Dominion the total capital invested in the industry was reported as \$401,942,402, of which \$356,547,217 represents the investment in power development and transmission and distribution systems, and \$45,395,185 represents miscellaneous supplies and working capital. The commercial stations reported 71.7% of the total capital, and the municipal stations 28.3%.

The total revenue from the sale of electrical energy reported by all stations is \$53,549,133, the commercial stations reporting 62% of this total, and the municipal stations 38%. This revenue includes the income received from the re-sale of energy purchased in bulk by one central station from another central station. The re-sale of energy by a second station must obviously take care of the purchase price of such power and the distribution charges.

In order that the part played by hydraulic power in this industry may be properly appreciated the capital invested in hydro generating stations should be considered in conjunction with that invested in stations of the non-generating

type which purchase power from hydro generating stations. This combined data is given under column 8 of table 4. For the Dominion the total is \$364,479,961, representing a total investment of \$218 per installed turbine horse power, and

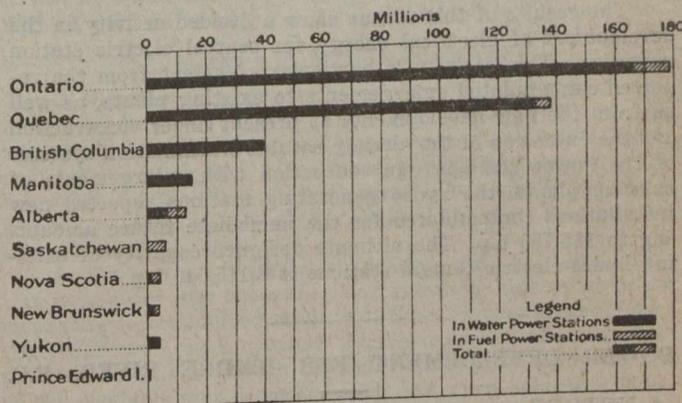


FIG. 3. Central Electric Stations—Capital Invested by Provinces, 1918.

accounting for 90.7% of the total capital invested in all central electric stations in Canada. As this capital includes investments in fuel power plants which are operated as auxiliaries to hydro-plants, the capacity of the primary power

TABLE 3—CENTRAL ELECTRIC STATIONS:—RELATION OF PRIMARY POWER AND DYNAMO CAPACITY TO POPULATION BY PROVINCES, JANUARY 1ST, 1919

PROVINCES 1	Population 2	NUMBER OF STATIONS			PRIMARY POWER				K.V.A. CAPACITY OF GENERATORS	
		Total	Com- mercial	Mun- icipal	Total Horse Power Amount 6	H.P. per 1,000 Pop. 7	Water Turbine Horse Power Amount 8	Wheel or H.P. per 1,000 Pop. 9	Amount 10	K.V.A. per 1,000 Pop. 11
Canada	*8,835,000	795	377	418	1,841,114	209	1,682,191	190	1,433,722	162
Alberta	588,000	53	28	25	75,915	129	32,600	55	58,193	99
British Columbia	718,000	60	37	23	217,184	302	211,043	294	138,225	193
Manitoba	619,000	29	11	18	75,142	121	71,790	116	50,961	82
New Brunswick	369,000	25	16	9	18,563	50	6,978	19	12,836	35
Nova Scotia	519,000	25	16	9	19,565	38	3,614	7	18,235	35
Ontario	2,821,000	39	25	14	780,213	277	744,221	264	628,109	223
Prince Edward Island	94,000	366	109	257	1,353	14	227	2	1,321	14
Quebec	2,326,000	9	9	..	611,744	263	601,718	259	492,467	212
Saskatchewan	754,000	149	115	34	31,215	41	..	..	27,195	36
Yukon	9,000	61	23	38	10,220	1,135	10,000	1,111	6,180	687
		4	4	..						

Notes:—*Includes population of North West Territories = 18,000.
†Power Equipment installed in auxiliary or stand-by plants is not included in this table.