

The pulp and paper industry accounts for a hydraulic installation of 649,801 h.p. or 7.9 p.c. of the total. It is not possible to state definitely what proportion of this is utilized in the generation of electricity for the operation of motor drive, but latest census figures indicate an approximate figure of 350,000 h.p. The industry, of course, uses a much larger percentage than this 649,801 h.p. because pulp and paper mills purchase about a third of the output of central electric stations and use more than 45 p.c. of such purchased power for motor drive. The latest census figures available indicate that Canada's pulp and paper mills maintain an electric-motor installation approximating 1,250,000 h.p. for operation by this power. The remaining 55 p.c. of the purchased power is utilized for steam-raising in electric boilers.

Column 3 of Table 4 lists the hydraulic installation of other than central electric stations and pulp and paper mills—a total of 346,912 h.p. The figures include all water-power installations supplying electric or hydraulic power to the mineral and electro-chemical industries, municipal pumping plants, electric railway plants, and the multitudinous saw, grist and grinding mills and other manufacturing industries throughout Canada. Here again no definite division between purely hydraulic and hydro-electric drive is possible.

4.—Developed Water Power in Canada: Distribution by Provinces and Industries, and per 1,000 Population, as at Dec. 31, 1939.

Province or Territory.	Turbine Installation in H.P.				Population, June 1, 1939. ⁴	Total H.P. Installation per 1,000 Population.
	In Central Electric Stations. ¹	In Pulp and Paper Mills. ²	In Other Industries. ³	Total.		
	1	2	3	4	5	6
Prince Edward Island.....	579	Nil	2,038	2,617	95,000	28
Nova Scotia.....	97,368	18,858	15,491	131,717	554,000	238
New Brunswick.....	104,710	20,694	7,943	133,347	451,000	296
Quebec.....	3,673,138	273,022	138,603	4,084,763	3,210,000	1,273
Ontario.....	2,257,823	231,277	107,699	2,596,799	3,752,000	692
Manitoba.....	420,925	Nil	Nil	420,925	727,000	579
Saskatchewan.....	87,500	"	3,335	90,835	949,000	96
Alberta.....	69,920	"	2,077	71,997	789,000	91
British Columbia.....	578,536	105,950	53,527	738,013	774,000	954
Yukon and Northwest Territories.....	2,000	Nil	16,199	18,199	14,000	1,300
Canada.....	7,292,499	649,801	346,912	8,289,212	11,315,000	733
Percentages of total installation.....	87.9	7.9	4.2	100.0		

¹ Includes only hydro-electric stations that develop power for sale. ² Includes only water power *actually developed* by pulp and paper companies. In addition to this turbine installation, pulp and paper companies have motor equipment for operation by hydro-electricity purchased from central electric stations aggregating more than 1,225,000 h.p., making a total of more than 1,875,000 h.p. actually developed for the manufacture of pulp and paper. Large amounts of electricity are also purchased for use in electric boilers rated at more than 1,750,000 h.p. ³ Includes only water power actually developed in connection with industries other than the central electric station and pulp and paper industries. These industries also purchase power from central electric stations. ⁴ Estimated by the Dominion Bureau of Statistics.

The figures of turbine installation given above must not be placed in direct comparison with those of the annual central electric station census nor those of the census of the pulp and paper industry because of the different bases of compilation. The figures of hydraulic installation represent the cumulative totals of