

**Analysis of Total Hydraulic Power Installations.**—For the purpose of this review the present total installation of 10,283,213 h.p. is divided in Table 3 under three main headings: central electric stations, pulp and paper mills and installations in other industries.

The largest and most rapidly growing of these classes, viz., central electric stations (a detailed survey of which is included in Section 2) totalling 9,290,299 h.p., represents slightly more than 90 p.c. of Canada's present development and produces 98 p.c. of all electricity sold in or exported from Canada.

The pulp and paper industry has a hydraulic installation of 642,576 h.p. and is the largest individual purchaser of central station power, buying as much as 50 p.c. of all power sold for industrial purposes.

The "other industries" group has a hydraulic installation of 350,338 h.p. and provides a broad market for central station power.

### 3.—Developed Water Power in Canada, by Provinces and Industries, as at Dec. 31, 1944

Province or Territory	Turbine Installation			
	In Central Electric Stations <sup>1</sup>	In Pulp and Paper Mills <sup>2</sup>	In Other Industries <sup>3</sup>	Total <sup>4</sup>
	h. p.	h. p.	h. p.	h. p.
Prince Edward Island.....	579	—	2,038	2,617
Nova Scotia.....	107,539	11,884	13,961	133,384
New Brunswick.....	104,710	20,694	7,943	133,347
Quebec.....	5,436,237	271,221	140,564	5,848,022
Ontario.....	2,334,722	232,827	105,894	2,673,443
Manitoba.....	420,925	—	1,900	422,825
Saskatchewan.....	87,500	—	3,335	90,835
Alberta.....	92,920	—	2,077	94,997
British Columbia.....	703,167	105,950	54,907	864,024
Yukon and Northwest Territories.....	2,000	—	17,719	19,719
<b>Canada.....</b>	<b>9,290,299</b>	<b>642,576</b>	<b>350,338</b>	<b>10,283,213</b>
Percentages of total installation.....	90.3	6.3	3.4	100.0

<sup>1</sup> Includes only hydro-electric stations that develop power for sale. <sup>2</sup> 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 the central electric stations totalled in the first column, aggregating approximately 1,370,000 h.p., making a total of almost 2,020,000 h.p. actually developed for the manufacture of pulp and paper. Large amounts of electricity are also normally purchased for use in electric boilers rated at more than 1,750,000 h.p. Most of this is now diverted to primary war uses. <sup>3</sup> 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 the central electric stations totalled in the first column. <sup>4</sup> All water wheels and hydraulic turbines installed in Canada.

The figures of turbine installation, given in Table 3, 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 installation for the purposes named, adjusted by deducting the capacity of installations removed because of obsolescence or for other reasons. The Census of Industry data are computed on a different basis, representing only the sum of the installation in the plants actually in operation during the year dealt with at the census and not total installation. Also, data on installations are available as soon as equipment is installed, whereas census data are not available until some time after the end of the period.