The development from year to year of Canada's water-power resources is a good index of the country's industrial growth and of the change in its economic life since the beginning of the present century. In 1900, prior to the inception of long-distance transmission of electricity, Canada's economy was based largely on agriculture and the total of hydraulic installations, mostly small mills, was only 173,000 h.p. After the successful solution of the problems of transmission of electric energy for use in distant communities, the development of large hydraulic projects became practicable and, by 1910, total installation had risen to 977,000 h.p. In ensuing decades, the growth in installed capacity, partly speeded by war demands, proceeded at an accelerated rate.

The figures in Table 2, and the graph on p. 544, show clearly the consistent growth in the total capacity of hydraulic installations since the beginning of the century. In the period 1900-05, the average annual increase was about 56,000 h.p., a rate that was stepped up sharply in subsequent years because of improvements in the transmission of electricity and the building of large central electric stations. During the period 1906-22, development proceeded at a fairly uniform rate of 150,000 h.p. per annum. The heavier demand for electricity during the prosperous 1920's increased the rate of installation sharply in 1923 and it continued at about 377,000 h.p. per annum for the period 1923-35. As an aftermath to the economic depression, the rate of installation was low during the years 1936-39, whereas the power required for war purposes accounted for the high average rate of increase of 481,000 h.p. per annum during the period 1940-43. Few developments were undertaken in the later war years or in the immediate post-war period, so that only a small amount of new capacity came into operation in the 1944-47 period. However, the results of the later post-war program of construction are apparent in the large growth in the years 1948-53 when the average rate was about 740,000 h.p. per annum. Present programs of expansion indicate a continuation of this rate of growth for some years.

2.—Hydraulic Turbine Horse-Power Installed, by Province, as at Dec. 31, Decennially 1900-50 and Annually 1951-53

Note.—Figures for each year 1900-30 are given in the 1939 Year Book, p. 362, for 1931-39 in the 1946 edition, p. 362, and for 1940-49 in the 1954 edition, pp. 556-557.

Year	New- foundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	h.p.	h.p.	h.p.	h.p.	h.p.	h.p.
1900	262,810 279,160 292,660	1,521 1,760 2,233 2,439 2,617 2,299 2,299 2,299 1,900	19,810 31,476 37,623 114,224 139,217 150,960 150,960 162,455 162,433	4,601 11,197 21,976 133,681 133,347 133,111 132,911 135,511 164,130	82,864 334,763 955,090 2,718,130 4,320,943 6,372,812 6,755,351 7,263,621 7,719,122	53,876 490,821 1,057,422 2,088,055 2,597,595 3,513,840 3,718,505 3,948,466 4,006,686
	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
	h.p.	h.p.	h.p.	h.p.	h.p.	h.p.
1900 1910 1920 1930 1940 1940 1950 1951 1952	. 38,800 . 85,325 . 311,925 . 420,925 . 595,400 . 596,400 . 716,900	30 35 42,035 90,835 111,835 111,835 111,835 109,835	280 655 33,122 70,532 71,997 107,225 207,825 207,825 207,960	9,366 64,474 309,534 630,792 788,763 1,284,208 1,358,808 1,432,858 1,496,518	5 3,195 13,199 13,199 18,199 28,450 28,450 31,450 32,440	173,323 977,171 2,515,559 6,125,012 8,584,438 12,562,750 13,342,504 14,305,880 14,929,074