

extent of 8,000 to 10,000 horse-power continuously between Galt and Elora alone. This capacity would also suffice for storage for 3 days of a flow at the rate of 10,000 cubic feet per second, and would thus give effective flood regulation. The great water-power gain could almost be considered as a by-product in view of flood regulation, good water supply, and other economic advantages obtained. In fertility of soil and in other advantages the Grand River basin is fitted to support a large population. It already has a number of large manufacturing centres.

Reforestation and particularly restoration of the swamp areas of the headwater townships, and provision of large storage basins should both be carried out; each measure complements the other, and they cannot be too strongly recommended.

The first requisite is a definite knowledge of the topography. This is now known only from the few railway elevations and from the broadly general features. A full topographical survey, definite gaugings, examinations of sites for storage basins, and delimitation of especially the head drainage area should be no longer delayed.

Precipitation gaugings, rainfall and snowfall, throughout the Province are also urgently required. Definite records have been kept, but only in a few places in Ontario, for about 65 years. A feature of one series of records is that in 50 years there have been 29 rainfalls of over 2 inches in 24 hours, some as high as $3\frac{1}{2}$ inches in 24 hours. Otherwise there are only uncertain records, many of them volunteer work, and much of this has been discontinued. A small appropriation would enable the accurate keeping of such records at all High Schools in Ontario, and the work would be an admirable incentive to physical study and research.

In view of the fact that south-western Ontario is destined to be the manufacturing centre and the most densely populated section of the Dominion, the conservation and development of its natural resources, among which the one herein outlined is in the first rank, is of preponderant importance. Sooner or later the work of limited reforestation and river regulation must inevitably be undertaken. Delay will but make it greater.

A business in wood preservatives is now being carried on in Toronto by the Carbolite Carbolineum Co., whose headquarters are at 302 Manning Chambers. Mr. S. S. Van Vlack is the Secretary of the Company, and the Directors are Messrs. W. S. Calvert, M.P., of Strathroy; Geo. S. May, M.P.P., of Ottawa; J. A. McAndrew, and Arthur Ardagh, of Toronto, and S. S. Van Vlack.