crops; and second, to so control the larger floods as to prevent them from doing injury. It is true that these major floods may occur when crops are on the low lands, but such an occurrence is rare, and the best that can be hoped for is to neutralize their effects as much as possible. A number of reservoirs in various parts of the world have been built having these dual functions in mind and there appears no reason why they would not succeed on the Kennebecasis, provided satisfactory sites can be found.

## Water Powers

The water powers of New Brunswick were investigated by the Commission of Conservation this summer (1918), and pending the publication of its report it is not desirable to discuss them at any length here. Previous reports of the conservation commission estimate the total "low water 24-hour horse power for 8 months, theoretical" for the St. John River and tributaries at about 200,000. They estimate the power at Grand Falls at 120,000, and the following table relating thereto is copied from their report:-

DISCHARGE IN C.F.S.

Min.

1,300

1,525

Mean

13,047

14,691

9,987

Eto: Gantour

Mean per sq. mi.

1.576

Year	Max.
1008	 83,840
1909	 103,120
1910	 38,400

The power very easy of development and the initial cost per h.p. should be very low, Regarding storage for river regulation there are no large lakes, but there are a considerable number of small ones, chiefly in Maine. The International Commission pertaining to the St. John has collected a lot of data on this and kindred subjects but their reports have not yet been published. Another disadvantage of the Grand Falls power site is its distance from any large centre of St. population. John is 145 miles

160 miles away. Cheap power, however, always attracts industries. The experience of the Ontario Hydro-Electric Commission is a striking instance of this. The following table shows the growth of their output since organiza-

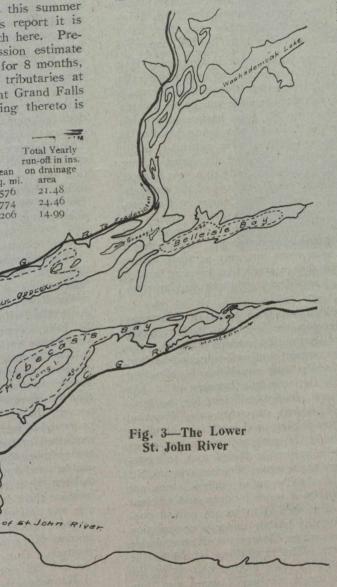
tion:—	F			Horse-power.	
tion.	Horse-power.				
	0 -00	TOTE			
1910		1916		4 000	
1911	0	1917			
1912		1918		230,	
1913		THE PERSON NAMED IN			
1914	oz,roz	most	opportune for	r placing	

The present time seems most opportun the New Brunswick Water Powers under a commission

similar to that which is so efficiently managing those in Ontario. The fuel shortage and the increased demand for power caused by the war make it desirable to develop all the hydro-electric energy for which there is a market in sight. Moreover, practically all of New Brunswick's powers are as yet unharnessed, and it should therefore be possible for the commission to secure practically a clear field and to develop these powers in such a way that the public may get the full benefit therefrom.

## St. John Harbor

St. John city ranks second among Canadian ports in the total of its imports and export trade, being sur-



passed only by Montreal. Its total trade for the fiscal year 1917 is given as \$206,087,220. It has a shorter rail haul to and from the Canadian interior than any other ice free port in Eastern Canada. Its harbor is easy of entrance, open whole year round and never affected by ice. From it, steamship lines run direct to the United King-Europe, dom, South Africa, New Zealand, Australia, West Indies, and States United ports.

St. John harbor is a striking example of the evils of divided control, and development proceeding without comprehensive and carefully worked out plan. present harbor facilities are the results of the activities of the C.P.R., the city and the Dominion Departments of Public Railways Works, and Canals, and Marine and Fisher-

ies, each acting more or less independently of the rest. As usual under such conditions, the more energetic and efficient organization secured the best that was going regardless of the needs of the others or the best interests of the port as a whole.

## The C.P.R and the Harbor

However, in partial justification of the C.P.R.'s hold on St. John harbor, it must be confessed that most of the port's sea borne traffic is handled by that road to and from the west, therefore it is perfectly proper that most of the ocean terminals should be placed where most con-