

Heart River Project.—During 1952, five 36-inch water-control gates were installed on the combined roadway and control structure at the outlet of Winagami Lake. The question is under consideration of augmenting the domestic water supply for the town of McLennan by means of a canal from Lake Winagami to Kimiwan. Study of the power development from Winagami Lake is being conducted.

Stream Control.—The Highwood River at High River has a definite tendency at high stages of flow to return to its ancient channel down the Little Bow Valley. This would be disastrous as the waters of the Highwood merge with those of the Bow to serve two large irrigation diversions. Moreover, the existence of the town of High River depends on the effectiveness of the control measures. The work of dyking the right bank of the river has gone on for several years but, because of the shifting channel conditions, further dyking will be necessary.

The following projects were built in 1952:—

(1) A new canal and dyke system was built to create increased flow at the point where the Trans-Canada Highway crosses Mackay Creek near Walsh.

(2) Serious flooding in the city of Medicine Hat occurred in the spring of 1952 from overflow of Sevenpersons and Ross Creeks. The work of cleaning out the channels of these streams was started in 1952 and was continued in 1953.

(3) The Oldman River has, for years, been wearing away its bank at the town of Fort Macleod; a new channel was built in 1952 to redirect the flow of the river.

(4) A dyke was constructed along the Bow River to protect a low-lying area in Bowness.

(5) A small river diversion project was built on the Belly River near Standoff to ensure water delivery to two pumping licensees and also to save valuable private property from inundation.

(6) In the spring of 1952, violent flood flow of Michichi Creek eroded the banks of the new channel built in 1951; the most vulnerable stretches of the channel were, therefore, lined with creosoted timber.

The following amounts were expended on provincial government projects during the year ended Mar. 31, 1953:—

<u>Project</u>	<u>Amount</u>	<u>Purpose</u>
	\$	
Highwood River Protection.....	45,118	Flood control
Mackay Creek at Walsh.....	36,690	Flood control
Macleod Irrigation District.....	30,188	Irrigation
Oldman Diversion at Macleod.....	22,377	Stream control
Heart River Diversion.....	3,161	Stream control
Sevenpersons and Ross Creeks at Medicine Hat.....	35,030	Flood control
Elkwater Lake Dam.....	7,090	Recreation
Hartell Dam.....	9,855	Recreation
Belly River Diversion.....	6,204	Stream control
Bow River Protection (Bowness).....	10,308	Flood control
TOTAL.....	206,021	

Water Power.—Calgary Power Limited commenced construction of the Bears-paw dam, located on the Bow River a few miles above Calgary. This project when completed will produce some 22,000 h.p. of electric energy and, by creating a small storage for ice accumulations, is the first step towards solving winter flooding in the Calgary-Bowness area.