

The Calgary Power Company has completed a fairly detailed water power survey of the Bow River and its tributaries and, as a result has constructed a number of water power reservoirs and power stations on the stream. Also, in co-operation with the Provincial Government, the Company has made a preliminary survey of Lesser Slave River and the Athabasca River from Athabasca to McMurray. The study of the North Saskatchewan basin is continuing more particularly in its main tributary, the Brazeau, where foundation, topographic and hydrometric information is being gathered. This study will cover measures to increase power supply and augment low winter flow.

By Order in Council, Feb. 17, 1941, the St. Mary and Milk Rivers Water Development Committee was set up to investigate and report on the many phases of irrigation development of southern Alberta, including water supplies available to Canada from the Waterton, Belly, St. Mary and Milk Rivers; the most feasible plan to put these waters to the most beneficial use; the benefits that such water development projects would confer on federal and provincial interests; the allocation of costs; and methods that might be adopted to finance such developments. The Committee completed a thorough investigation and published a comprehensive report on the projects on the international streams, and also on other projects in the Province.

The allocation of water to the major irrigation projects in Alberta, as approved by the Prairie Provinces Water Board, is as follows:—

<i>Project</i>	<i>Acres Irrigable</i>	<i>Water Allocation in Acre-feet</i>
St. Mary-Milk Rivers Development.....	465,000	796,000
Western Irrigation District.....	50,000	85,700
Eastern Irrigation District.....	281,000	562,000
Bow River Irrigation Development.....	240,000	478,534
United Irrigation District.....	34,000	51,000
Lethbridge Northern District.....	96,135	150,000
Mountain View Irrigation District.....	3,600	6,000
Aetna Irrigation District.....	7,300	13,000
Leavitt Irrigation District.....	4,400	7,000
Macleod Irrigation District.....	5,000	8,000
Private Projects.....	70,000	80,000
TOTALS.....	1,256,435	2,237,234

Developments during 1955-57 are outlined as follows:—

Irrigation.—Operation problems in the irrigated areas were under special study, particularly alkali and seepage.

St. Mary-Milk Rivers Development.—The low line canal was completed. A canal and diversion works from Waterton-Belly to the St. Mary dam was under construction by PFRA, and special soil studies were being made of the area under the high line canal.

Bow River Development Project (Western Block).—The construction phase of this project was started late in 1953. The irrigable area is approximately 60,000 acres and 17,000 acres were ready for operation. This development is the responsibility of the Province of Alberta.

Heart River Project.—Water became available to the towns of McLennan, Falher and Girouxville through this project.

River Protection and Stream Control.—Work proceeded on the Milk, Crowsnest and Bow Rivers.

High Prairie-Enilda Flooding.—Surveys were made to ascertain the possibility of controlling the East and West Prairie Rivers in the High Prairie-Enilda delta on the west end of Lesser Slave Lake.

Pembina River Flooding Problem.—Surveys were made to determine the feasibility of constructing cutoffs in the Pembina River channel to speed the water out of the Manola-Jarvie flood areas.