

Construction activities have been mainly the repair and enlarging of old and worn out structures to meet new and increased demands. Twelve thousand acres of new land in the Hays district of the Bow River irrigation project were prepared for settlement in 1951. A complete irrigation distribution system was installed in the area.

Red Deer Irrigation Project.—The proposed Red Deer River development concerns the irrigation of an estimated 400,000 acres of land located in the east-central part of Alberta. The project will consist of a dam on the Red Deer River at Ardley and about 100 miles of main canal to two main reservoirs—Craig Lake and Hamilton Lake.

The dam will contain power installations to produce power for pumping and also for sale commercially. An estimated 20,000,000 kwh. of water power will be available for sale when fully developed. Engineering topographic and plain table surveys on lands proposed for irrigation are all but completed. Engineering surveys on proposed irrigation works are also nearing a stage of completion and negotiations are under way to finalize all those phases of study pertinent to the development of the project.

Irrigation Development in British Columbia.—Irrigation development in British Columbia has been undertaken in connection with the Veterans' Land Act and at the request of the British Columbia Government. Three projects, namely, the Chase irrigation project and the Johnstone Western Canada ranching projects No. 1 and No. 2, have been completed within the South Thompson Valley area. On these projects, 809 acres of land have been developed for irrigation for the benefit of approximately 40 veterans of World War II.

In the Okanagan Valley three new projects have been completed, the Westbank irrigation project and the Bankhead project near Kelowna, and the Cawston Benches project located east of the town of Keremeos. The three projects irrigate 1,782 acres of land and provide locations for 170 veterans of World War II.

Intensive farming is practiced both in the Okanagan and South Thompson Valleys. The land developed for irrigation by P.F.R.A. will be used mainly for the growing of small fruits and vegetables and for dairying.

New projects are constantly being investigated as potential development areas. During the year ended Mar. 31, 1952, complete investigation reports were completed for: Lister Project, Creston; Grandview Flats Project, Vernon; Black Mountain Irrigation Project, Black Mountain Irrigation District; Salmon Arm Irrigation Project, Salmon Arm; Pitt Meadows Dyking District No. 1, Port Coquitlam; British Columbia Fruitlands Irrigation Project, between Kamloops and Tranquille; and Penticton West Benches Project, Penticton

Major Reclamation Projects.—*Riding Mountain Reclamation Project.*—Extensive investigations have been undertaken by P.F.R.A. in the Riding Mountain area at the request of the Manitoba Government. A serious flood problem exists on a number of streams flowing off the north and east slopes of Riding Mountain and Duck Mountain, causing damage to a large area of valuable agricultural land. P.F.R.A. was asked to devise and carry out a plan to relieve a land area of over 252,000 acres affected by flooding.