TABLE NO. 6—continued. IRRIGATION AND WATER-SUPPLY—continued.

	re 1, Remarks.	Investigations into the feasibility of irrigation in the Canterbury Province have been in hand since January, 1934. Investigations include the following phenomena, viz.: Soil moisture, mechanical analysis of soil, depth of ground water, evaporation, rainfall, and river-flow.	Comprehensive investigation surveys of schemes for the Wairau Valley and parts of the Wairau Plains are in hand.	Ħ	scheme.  Modified scheme for complete irrig 5,000 acres is possible without storag reasonable partial irrigation of 15,0	Surveys practically complete for scheme to irrigate 100,000 acres.  For lands about St. Bathan's. To bear £15,000 towards cost of Falls dam, Upper Manuherikia scheme. Irrigable area, 3,000 acres.	Investigations have been made for a hydro- electric power development at the outlet of Lake Hawea. Sufficient power would be available to pump water from the Hawe and Clutha Rivers to 13.700 acres in the Univer-		acres. Includes the reading of riv		ī
SCHEDULE OF SCHEMES UNDER INVESTIGATION.	Expenditure to 31st March, 1937.*	£ 20,724	2,906	3,774	16,220	:	:	6,553	2,145	52,322	1,676,656
	Length of Distribu- taries.	Miles.	:	:	:	:	:	09	:	:	:
	Length of Main Canai.	Miles	:	:	09	:		58	:	:	:
	Area commanded (Gross).	Acres. 53,000 113,000 40,000 92,000 84,000	:	:	100,000	:	:	16,000	;	:	:
	Rainfall, 1936.	Inches. 36.74 36.74 32.23 32.68 36.96	:	23.87	17.79	31.76	24.85	20.42	:	:	:
	Average Rainfall from Records available.	Inches	÷	20·72 (Luggate)	16.88 (Waipiata)	30-66 (St. Bathan's)	21.97 (Hawea Flat, Lug-gate, and Tarras)	20.31 (Clyde, Ophir, and Blackstone Hill)	:	:	:
	Main Canals Discharge (Maximum), as per Design.	Cusecs. 250 450 250 450 450	:	:	500	20	:	:	:	:	:
	River Discharge ((Minimum).	Cusecs. 800 800 1,500 2,000		29 (Roaring Meg)	255		580 (Hawea R.) 3,000 (Clutha R.)	36 (at dam- site)	:	:	:
	Source of Supply.	Rangitata River Rangitata River Rangitata River Rakaia River Rangitata River	:	Hydro-electric development of Roaring Megand pumping from Clutha and Kawaran Rivers	Taieri River and storage dam	Tributaries of Manuheri- kia River	Hawea and Clutha Rivers (pumping) with power- station at outlet of Lake Hawea	Manuherikia River and storage dam at Manu- herikia Falls	:	Total: Schemes under investigation	:
	Scheme.	Canterbury— Barrhill Mayfield-Hinds Orari Rakaia Valetta-Tinwald Investigations of other proposed schemes	Marborough— Investigation of pro- posed schemes	Otago Central— Cromwell Flat and Low- burn (Roaring Meg)	Maniototo (Upper Taieri)	Scandinavian	Upper Clutha Valley (including Hawea Flats)	Upper Manuherikia (extension of Omakau Scheme)	Investigation of proposed schemes	Total: Schemes	Grand total

\* Includes expenditure from Public Works Fund, Consolidated Fund, Unemployment Fund; also administration and loan charges.