TABLE NO. 6—continued. IRRIGATION AND WATER-SUPPLY—continued. SCHEDULE OF SCHEMES UNDER INVESTIGATION.

			HOO.	CORPORE OF CORPORE	NAU CAN	CORPAGE ON DEN INVESTIGATION				
Scheme.	Source of Supply.	River Discharge (Minimum).	Main Canals Discharge (Maximum), as per Design.	Average Rainfall from Records available.	Rainfall, 1937.	Area commanded (Gross).	Length of Main Canal.	Length of Distribu- taries.	Expenditure to 31st March, 1938.*	Remarks,
Canterbury— Barrhill Orari Valetta-Tinwald Investigations of other proposed schemes	Rangitata River Rangitata River Rangitata River	Cusecs. 1,300 1,300 1,300	Cusecs. 250 250 450	Inches. 23.00 22.00 23.	Inches. 24.77 32.87 29.10	Acres. 53,000* 40,000 84,000*	Miles.	Miles.	$\left\{\begin{array}{c} \mathfrak{L} \\ 23,754 \end{array}\right\}$	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.
Marborough— Investigation of proposed schemes	:	:	:	:	16.06	•	•	•	3,385	Comprehensive investigation surveys of schemes for the Wairau Valley and parts of the Wairau Plains are in hand.
Otago Central— Cromwell Flat and Low- burn (Roaring Meg)	Hydro-electric development of Roaring Meg and pumping from Clutha and Kawaran Rivers	29 (Roaring Meg)	:	20.65 (Luggate)	19.34	:	:	:	3,774	Hydro-electric scheme under investigation. Power would be available for pumping irrigation supplies to 8,000 acres in Upper Clutha Valley. Portion of this area could be supplied from Hawea River power and pumping
Maniototo (Upper Taieri)	Taieri River and storage dam	25	500	16.87 (Waipiata)	16.59	100,000	9	:	16,734	Scheme. Modified scheme for complete irrigation of 5,000 acres is possible without storage, or for reasonable partial irrigation of 15,000 acres. Surveys practically complete for scheme to
Scandinavian	Tributaries of Manuheri- kia River	:	20	30.66 (St. Bathan's)	:	;	:	:	:	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.
Upper Clutha Valley (including Hawea Flats)	Hawea and Clutha Rivers (pumping) with powerstation at outlet of Lake Hawea	580 (Hawea R.) 3,000 (Clutha R.)	:	21.83 (Hawea Flat, Lug- gate, and Tarras)	19.77	:	:	:	:	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 Hawea and Clutha Rivers to 13,700 acres in the Upper
Upper Manuherikia (extension of Omakau Scheme)	Manuherikia River and storage dam at Manu- herikia Falls	36 (at dam- site)	•	20·37 (Clyde, Ophir, and Blackstone Hill)	21.47	16,000	86	09	6,553	Clutha Valley. Surveys and investigations have been made for the extension of the Omakau scheme (now under construction) to supply lands between Tiger Hill and Clyde. Irrigable area, 12,000
Investigation of proposed	:	:	:	:	:	:	:	:	2,145	acres. Includes the reading of river and rain gauges.
Schemes Total: Sch	Total: Schemes under investigation	:	:	:	:	:	:	:	56,345	
Grand total		:	:	:	:	:	:	:	1,800,012	

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