

TABLE NO. 7—continued.

IRRIGATION AND WATER-SUPPLY—continued.

SCHEDULE OF SCHEMES UNDER INVESTIGATION.

Scheme.	Source of Supply.	River Discharge (Minimum).	Main Canals Discharge (Maximum), as per Design.	Average Rainfall from Records available.	Rainfall, 1927.	Area commanded (Gross).	Length of Main Canals.	Length of Distributaries.	Expenditure to 31st March, 1928.	Remarks.
Maniototo (Upper Taieri)	Taieri River and storage dam	Cusecs. 25	Cusecs. 500	Inches. 17.56 (Waipata)	Inches. 16.45	Acres. 100,000	Miles. 60	Miles. ..	£ 257	Modified scheme for complete irrigation of 5,000 acres is possible without storage, or for reasonable partial irrigation of 15,000 acres. Development would be costly.
Cronwell Flat and Low burn (Roaring Meg)	Roaring Meg Stream (gravity), Kawanau River (pumping)	29 3,000	40	21.19 (Luggate)	17.01	15,000	10	30	3,174	
Upper Manuhierikia	Manuhierikia and Dunstan Rivers and storage dam in Manuhierikia River at Falls	77	500	20.30 (Clyde, Ophir, and Blackstone Hill)	22.06	96,000	130	..	5,259	Further investigations into water requirements and areas available, and revised estimates have been made.
Hawea Flats (first alteration)	Timaru Creek (gravity)	20	30	25.85 (Hawea Flat)	23.92	4,000	11	20	49	To irrigate lower flat only.
Hawea Flats (later alteration)	Hawea River (pumping)	..	..	25.85 (Hawea Flat)	23.92	17,600	..	..	..	Latest tentative proposal. Electric power not necessary, but water to be pumped by direct application of power generated by low-pressure turbines at outlet of Lake Hawea. This appears preferable to alternative No. 1, and appears to be a promising scheme. Further closer survey and estimates are necessary.
Chapman's Gully	Butcher's Creek, Conroy's Creek, and storage dam	..	..	14.65 (Alexandra)	11.23	100	..	..	16	..
Bendigo Flat	Lindis River and storage dam	35	30	18.99 (Tarras)	17.67	3,000	7	..	..	The greater portion of this area is now served.
* Teviot River Extension	Teviot River and Lake Onslow dam	40	80	14.43 (Roxburgh East)	16.81	2,300	..	..	207	To irrigate a limited area in the vicinity of Ettrick, on west side of Clutha River.
Miller's Flat	Minzionburn	6	..	..	..	2,000	..	..	192	Survey and proposals completed.
Luggate Burn	Luggate Burn	6 (after existing rights)	12	21.19 (Luggate)	17.01	1,200	..	..	273	To supply water to part of Mount Pisa settlement lands.
Scandinavian	Tributaries of Manuhierikia River	..	20	30.57 (St. Bathans)	39.37	4,000	..	..	..	For lands about St. Bathans. Include £12,000 towards cost of Falls dam. Upper Manuhierikia scheme.
Soil Survey (Central Otago)	..	..	..	..	..	..	..	..	2,534	This soil survey in the irrigation districts is now complete, and plans are being prepared. 250,000 acres were surveyed this year.
Investigation of proposed schemes	..	..	..	..	..	..	..	..	120	Includes the reading of river and rain gauges.

* Put under Teviot River scheme with which it will be ultimately amalgamated.