

NEW ZEALAND.

EXTRACT FROM THE
PUBLIC WORKS STATEMENT,
AND
REPORT OF CHIEF ELECTRICAL ENGINEER,
1941.

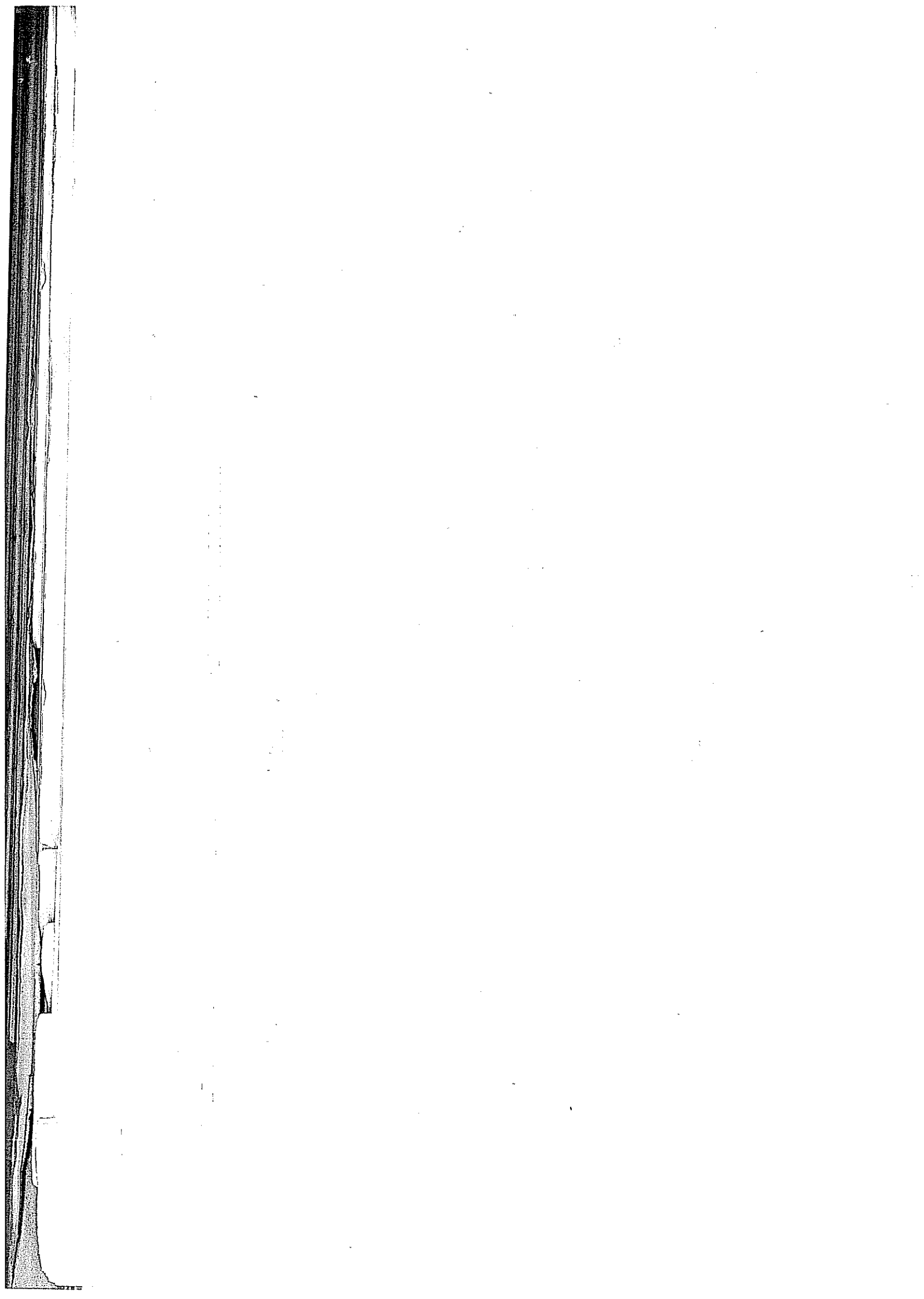
(Together with additional Statistical Tables relating to all Electric Supply Authorities.)

HYDRO-ELECTRIC DEVELOPMENT.



WELLINGTON.
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1942



NEW ZEALAND.

HYDRO-ELECTRIC DEVELOPMENT.

YEAR ENDING 31st MARCH, 1941.

EXTRACT FROM THE PUBLIC WORKS STATEMENT.

BY THE HON. H. T. ARMSTRONG, MINISTER OF PUBLIC WORKS.

HYDRO-ELECTRIC DEVELOPMENT.

All generating stations have operated smoothly during the year, and the financial results of operations have again been very satisfactory. After paying net operating-expenses the revenue for the year gave a return of 9·07 per cent. on the average capital in operation, as compared with 8·7 per cent. for last financial year.

The development of secondary industries made necessary by the war has been a factor in increasing the demand in both Islands, and the units generated in Government generating-stations and Government-controlled stations showed an increase over the previous year of 13·90 per cent. in the North Island and 13·41 per cent. in the South Island.

Amending legislation passed last year rendered the Electric Supply Account liable for payment of taxes, and the sum of £336,049 was accordingly paid for income-tax, national security tax, and social security charge.

DEMAND VERSUS GENERATING-CAPACITY.

During the year it has been found necessary to call on all North Island Electric Supply Authorities, which are dependent on the Government hydro-electric generating-stations, to exercise a strict control over the increasing electrical demand in their respective areas. The response so far has enabled the Public Works Department to postpone the implementing of any arbitrary scheme for rationing of supplies, which is the only alternative and one which it is desired to avoid if possible.

Several expedients have been adopted by Supply Authorities in general to tide over the present difficulties, which, however, cannot be disposed of until delivery of additional generating-plant is obtained from overseas; but it is satisfactory to record that up to the present Electric Supply Authorities have not found it necessary to introduce any measures of a drastic nature.

The legislation extending daylight saving throughout the year has proved most beneficial in alleviating the position in the generating-stations.

OPERATING RESULTS.

North Island System.—The plants at Arapuni, Waikaremoana, Mangahao, and Horahora have been fully operated throughout the year. Assistance from various local plants—principally the King's Wharf Station, Auckland, and the Evans Bay Station, Wellington—was necessary during the autumn and winter months to meet the ever-increasing demand for power.

The result of the year's operation was as follows:—

Capital investment at end of year	£	11,561,705
Revenue		1,533,136
Operating-expenses		640,884
Balance		£892,252

The balance has been used in paying £336,073 for interest, £284,532 for social security charge, national security and income-taxes, and £148,937 to bring the Sinking Fund up to statutory requirements. The balance of £122,710 has been transferred to Reserve Fund. It was not necessary to make any payment to the Depreciation Reserve as this account has reached the statutory limit of 12½ per cent of capital.

The Reserve Accounts established in connection with this scheme show that £1,112,633 has been credited to Depreciation Reserve, £1,308,951 to Sinking Fund and £303,948 to the Reserve Fund.

South Island System.—The plants at Lake Coleridge, Waitaki, Monowai, and Arnold River have also been operated successfully.

The year's operations resulted as under:—

Capital investment at end of year	£	7,289,053
Revenue		678,813
Operating-expenses		173,289
Balance		£505,524

The balance has been used in payment of £254,069 for interest, £51,511 for social security charge, national security and income-taxes, £73,711 to the Depreciation Reserve, and £126,227 to the Sinking Fund.

The various Reserve Accounts established in connection with this scheme show that £813,288 has been paid to the Depreciation Reserve, £543,856 to Sinking Fund, and £86,766 to Reserve Fund. There is still a deficiency of £214,654 as against the statutory requirements of Sinking Fund.

Summarized Position: Percentage earned on Operating Capital after paying Working-expenses.

	Average Operating-capital.	Gross Revenue.	Working-expenses.	Net Balance.	Percentage Net Balance to Operating-capital.
North Island system	£ 9,519,865	£ 1,533,136	£ 640,884	£ 892,252	Per Cent. 9·37
South Island system	5,882,967	678,813	173,289	505,524	8·59
Totals	15,402,832	2,211,949	814,173	1,397,776	9·07

The general position to date is that the Electric Supply Account has been able to meet all operating and interest charges, has provided the statutory requirement of £1,925,921 for depreciation, and in addition, has provided £1,852,807 towards the statutory sinking-fund requirement of £2,067,461. In addition, £390,724 has been paid to the Reserve Fund from profits from time to time. In other words, the electric-supply system as a whole has paid all operating and interest charges and provided £4,169,452 in reserves, of which £1,538,178 has already been utilized for the paying-off of loans which formed part of the original capital. There are, however, still to be met arrears of sinking funds amounting to £214,654.

CONSTRUCTION.

The demand for electric power still continues to increase, and, in addition to the ordinary expansion due to farming development and the construction of houses, industrial development and the supply of military camps has imposed a special load on the supply system.

To meet this demand additional main generating-stations and increased reticulation facilities have to be provided as a matter of urgency.

On the Waikato River two additional 21,600 kW. units are being installed at Arapuni, thus completing the final development at this station to a total of 146,400 kW.

At Karapiro some sixteen miles below Arapuni, a new dam is being built to utilize 100 ft. fall, and three 30,000 kW. generating-units are being installed, thus providing 90,000 kW. additional power from which must be deducted 10,300 kW. at present being generated at Horahora, which will be submerged when this new development is put into operation.

At the outlet to Lake Taupo a diversion canal has been constructed on which six regulating-gates have been installed so that the outflow from Lake Taupo can be regulated to provide water as required for the generating-stations below. The use of these gates will obviate any water being wasted over the spillways at certain seasons, and this water will be stored for use when the peak demand requires it.

At Waikaremoana work is nearing completion on the lower development which utilizes a head of 370 ft., and at this station two 20,000 kW. generating-units are being installed. The main feature of this work is the construction of 7,500 ft. of 16 ft. diameter pressure-tunnel.

At Cobb River good progress is being made on a scheme recently taken over from a private company. This scheme utilizes water under a head of 1,964 ft. and four 3,000 kW. generating-units are being installed, of which one unit is to be used as a spare; therefore the output will be 9,000 kW. This scheme is capable of being doubled at some future date.

In Canterbury construction works are proceeding on Highbank scheme situated on the Rakaia River, although the water-supply is being obtained from the Rangitata River by means of a 42-mile irrigation race. The available fall is 330 ft., and one 25,200 kW. generating-unit is being installed.

At Waitaki two new 15,000 kW. generating-units have been installed, bringing the total capacity of the station to 60,000 kW.

At Lake Tekapo construction has been started on regulating-works which involve the construction of a 20-ft.-diameter concrete-lined pressure-tunnel 6,000 ft. long, and a dam at the outlet of Lake Tekapo. These regulating-works will perform a similar function in controlling the water to Waitaki power-station as the Lake Taupo regulating-works for stations on the Waikato River. In addition to the regulating-works, there is a fall of 100 ft. which will be used subsequently to operate a generating unit of 21,600 kW. capacity at the outlet of the tunnel.

With the exception of Tekapo, tenders for which have not yet been called, the manufacture of the generating-units for these stations is well advanced, and it is hoped that deliveries will be made in due sequence, notwithstanding the prevailing difficulty of shipping during the war period.

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TABLE No. 5—continued.
NORTH ISLAND HYDRO-ELECTRIC-POWER SUPPLY—continued.

Depreciation Reserve Account.

		1939-40.		1940-41.		1939-40.	
		£	s. d.	£	s. d.	£	s. d.
To Replacements, Renewals, &c.	.. ..	11,685	7 2	19,051	6 10	.. ..	.. ..
Balance..	.. ..	1,112,633	2 6	1,081,075	9 4	.. ..	.. ..
		£1,124,318	9 8	£1,100,126	16 2		
		By Balance from previous year's statement					
		Interest at 4 per cent. per annum					
		Amount set aside as per Net Revenue and Appropriation Account					
		£1,124,318	9 8	£1,100,126	16 2	£1,081,075	9 4
						48,243	0 4
					
						15,476	15 10
						1,042,532	14 2
						41,717	6 2
						741,037	17 0
						230	3 7
						418,552	3 4
						£1,100,126	16 2

Sinking Fund Account.

To Balance	.. ..	£	s. d.	£	s. d.	£	s. d.
		1,308,950	16 5	1,159,820	3 11	1,159,820	3 11
		£1,308,950	16 5	£1,159,820	3 11		
		By Balance at close of previous year					
		Interest					
		Amount set aside as per Net Revenue and Appropriation Account					
						148,937	2 6
						193	10 0
						1,159,820	3 11
						741,037	17 0
						230	3 7
						418,552	3 4
						£1,159,820	3 11

Reserve Fund Account.

To Balance..	.. ..	£	s. d.	£	s. d.	£	s. d.
		303,958	4 1	181,248	2 9	181,248	2 9
		£303,958	4 1	£181,248	2 9		
		By Balance at close of previous year					
		Amount set aside as per Net Revenue and Appropriation Account					
						122,710	1 4
						181,248	2 9
						£181,248	2 9

TABLE No. 5—continued.
 SOUTH ISLAND HYDRO-ELECTRIC-POWER SUPPLY.
 PROFIT AND LOSS ACCOUNT FOR YEAR ENDED 31ST MARCH, 1941, COMPARED WITH YEAR ENDED 31ST MARCH, 1940.
 Gross Revenue Account.

	1940-41.			1939-40.			1940-41.			1939-40.						
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
To Generating-expenses (hydro-electric)—																
Lake Coleridge	14,538	18	1	12,668	3	5	By sales of electrical energy—									
Lake Waitaki	8,560	13	1	8,437	8	6	Bulk for resale	443,534	13	3	£	402,773	19	9		
Kamata	1,577	12	9	1,215	14	10	Other than for resale—									
Monowai	6,370	10	0	7,709	0	4	Traction	21,479	3	9	£	21,089	4	11		
							Industrial	99,050	2	10		79,340	15	4		
							Retail	101,965	4	2		96,689	10	4		
Generating-expenses (fuel) Dobson				30,030	7	1					666,029	4	0			
Purchase of power in bulk				12,816	15	8										
Standby charges				337	16	11	Rents—									
							Land and buildings									
							Lanes and plant	4,532	15	0	£	3,641	11	4		
Transmission System : Patrol and maintenance				39,992	13	1					4,919	1	6			
Substations : Operation and maintenance				24,564	11	7										
Communication System : Patrol and maintenance				22,230	8	1										
Distribution : Maintenance				1,373	0	3	Miscellaneous revenue				7,864	9	11			
System operation, testing, &c.				19,933	18	0										
Management and general expenses				11,781	18	1										
Balance, to Net Revenue and Appropriation Account				53,411	16	5										
count				505,524	9	11										
				£678,812	15	5					£678,812	15	5	£613,612	5	4

Net Revenue and Appropriation Account.

	1940-41.			1939-40.			1940-41.			1939-40.						
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
To Interest (gross) for year ended 31st March, 1941	262,392	19	11				By Balance from Gross Revenue Account									
Less interest capitalized	8,923	8	11													
				254,069	11	0					505,524	9	11	£438,652	12	8
Depreciation on completed works				73,711	4	7										
Sinking Fund				126,227	3	11										
Reserve Fund				51,516	10	5										
Social Security charge, national security tax, income-tax				£505,524	9	11					£505,524	9	11	£438,652	12	8

CHIEF ELECTRICAL ENGINEER'S REPORT.

For full text of the above report, refer to Public Works Statement, 1941, Appendix D, pages 40 to 57 inclusive.

REGISTRATION OF ELECTRICAL WIREMEN.

The statistics for the year ended 31st March, 1941, are set out below (the figures in parenthesis are for the previous year):—

Number of meetings	18	(17)
Registrations—		
Inspectors	31	(38)
Wiremen—		
Full registration	168	(123)
Limited registration	64	(85)
Provisional licenses	27	(64)
Temporary permits	1	(18)
Reregistrations after periodical purging	7	(—)
Examinations—		
Wiremen's—		
Candidates—		
Written part	449	(527)
Practical part	360	(355)
Passed (per cent.)—		
Written part	32	(34)
Practical part	53	(52)
Highest marks—		
Written part	87	(91)
Practical part	91	(93)
Servicemen's—		
Candidates—		
Written part	103	(113)
Practical part	70	(99)
Passed (per cent.)—		
Written part	40	(34)
Practical part	67	(61)
Highest marks—		
Written part	100	(89)
Practical part	93	(95)
Defective work reports	36	(51)
Endorsements made	4	(2)
•Endorsements removed	1	(3)
Breach of Act reports	91	(59)
Prosecutions authorized	51	(36)

INTRODUCTORY REMARKS CONCERNING TABLES PREPARED BY THE CHIEF ELECTRICAL ENGINEER.

For reasons of economy in paper, the usual number of tables is not being published for the year ended 31st March, 1941, tables VI, VII, VIII, XII, XV, and XVI being omitted. Tables IV and V have been incorporated in table XI.

This edition contains—

- Table I: P.W.D. System: Capital Outlay and Results of Operation.
- Table II: P.W.D. System: Analysis of Capital Outlay.
- Table III: P.W.D. System: Working-costs.
- Table IX: Populations, Consumers, Route-miles of Lines, &c
- Table X: Results of Generation and Distribution.
- Table XI: Financial Results of Operation.
- Table XIII: Averages derived from Tables IX, X, and XI.
- Table XIV: Ranges, Water-heaters, and Milking-machines.

The statistics and information usually compiled under the headings "Local Electrical Supply Systems," "Broken Wires and Poles," "Growth of Load," "Electrical Accidents," and "Electrical Fires," have been condensed and summarized as follows:—

A. Condensed Statistics, 1940-41.

		1941	1940	Increase or Decrease
(a) Installed generating-capacity (main stations)	kW	338,075	303,166	+34,909
(b) Installed generating-capacity (standby)	kW	100,117	100,639	-422*
(c) Total connected load	kW	2,388,389	2,152,201	+236,188
(d) Consumers	No.	442,222	426,354	+15,868
(e) Units sold per capita	No.	917	837	+80
(f) Units sold per consumer	No.	2,981	2,877	+104
(g) Route-miles of main and distribution line	R.M.	28,180	27,358	+822
(h) Consumers per route-mile	No.	15.69	15.58	+0.11
(i) Sales per route-mile	Units	51,394	46,784	+4,610
(j) Miles of conductor in service	Miles	140,099	134,603	+5,496
(k) Broken poles reported	No.	405	393	+12
(l) Broken wires reported	No.	1,609	2,029	-420
(m) Electrical fires reported	No.	19	25	-6
(n) Electrical accidents reported	No.	25	48	-23
(o) Electric ranges installed	No.	(10 fatal) 105,522	(10 fatal) 92,323	+13,199
(p) Electric water-heaters installed	No.	124,193	106,948	+17,245
(q) Electric milking-machines installed	No.	29,365	27,183	+2,182

* Plant removed Hawke's Bay and Rotorua Stations

B. Summarized Results of Operations for Year ended 31st March, 1941.

Item		Water	Steam	Gas	Oil	Total
1. Number of main stations	No.	33(a)	1(c)		6(b)	40
2. Installed capacity (main plant)	kW	336,118	750		1,207	338,075
3. Number of standby plants	No.	11(d)	10(f)	3(g)	25(e)	49
4. Installed capacity (standby plant)	kW	2,506	77,565	1,101	18,945	100,117
6. Number of consumers	No.			442,222		
7. Connected load	kW			2,388,389		
5. Units generated	No.	1,698,362,131	123,980,885	199,869	7,689,323	1,830,232,208
8. Units sold to consumers	No.			1,448,310,043		
9. Percentage of non-productive units	%			20.89		
10. Total operative capital (including distribution systems and standby plant)	£			41,552,698		
11. Total capital per kilowatt installed (including distributing systems, &c.)	£			94.82		
12. Annual working-costs	£			2,032,745*		
13. Annual working-cost per unit under section 8	d.			0.336		
14. Annual capital costs (interest, sinking fund, and depreciation)	£			2,300,226		
15. Annual capital cost per unit under section 8	d.			0.382		
16. Annual capital cost as a percentage of capital	%			5.55		
17. Total annual costs (section 12 plus section 14)	£			4,341,971		
18. Total annual cost per unit under section 8	d.			0.719		
19. Total annual revenue (from retail sale of electricity)	£			5,443,696		
20. Average revenue per unit (from sections 19 and 8)	d.			0.902		
21. Gross revenue (excluding rates and bulk sales)	£			5,597,120		
22. Net profit (section 21 less section 17)	£			1,255,158		
23. Ratio of working-costs to gross revenue (section 12 and section 21)	%			36.31		

* After deducting cost of power purchased in bulk.

MAIN STATIONS

(a) Hydro-electric: Arapuni, Horahora, Waikaremoana, Mangahao, Mangorei, Kourarau, Opunake, Lake Coleridge, Waitaki, Monowai, Arnold River, Bay of Islands, Golden Bay, Marlborough, Otago Central, South Taranaki, Taranaki, Teviot, Waimea, Waitere, Dunedin, Picton, Queenstown, Raetihi, Taihape, Tauranga, Westport, Kaponga, Murchison, Kanieri, Reefion Electric Light and Power Co., Ltd., Wilsons (N.Z.) Portland Cement Co., Ltd., Westland Power, Ltd. Total, 33.
(b) Oil: Waimea, Picton, Kaikoura, I. Keys, Kohukohu, Reefion Electric Light and Power Co., Ltd., Rawene Motors Total, 6.
(c) Steam: Nelson. Total, 1.

STANDBY STATIONS

(d) Hydro-electric: Banks Peninsula, Hawke's Bay, South Canterbury, Waitaki, New Plymouth, Ohakune, Patea, Raetihi, Taumarunui, Te Aroha, Thames Borough Total, 11.
(e) Oil: Penrose, Dobson, Hawke's Bay, Marlborough, Opunake, Poverty Bay, South Taranaki, Waimea, Waitaki, Dunedin, Palmerston North, Wellington, Napier, New Plymouth, Ohakune, Patea, Picton, Queenstown, Rangiora, Thames Borough, Murchison, Kanieri, L. Keys, Kohukohu, Reefion Electric Light and Power Co., Ltd., Westland Power, Ltd. Total, 25.
(f) Steam: Huntly, Christchurch Tramway Board, Invercargill, Auckland, Wanganui-Rangitikei, Christchurch City, Dunedin, Nelson, Wellington, Wilson's Portland Cement Co., Ltd. Total, 10.
(g) Gas: Palmerston North, Taihape, Westport, Total, 3.

TABLE I.—SUMMARY OF FINANCIAL AND OPERATING STATISTICS FOR NORTH ISLAND AND SOUTH ISLAND
ELECTRIC-POWER SYSTEMS FOR THE YEAR ENDING 31ST MARCH, 1941.

NOTE.—“North Island system” includes Arapuni—Horahora—Mangahao—Waikaremoana all interconnected. “South Island system” includes Lake Coleridge—Waitaki—Southland—Arnold River (Westland) all interconnected.

	1940-41 (Seventh Year).		1940-41 (Seventh Year).
(a) Financial.			
(1) Capital outlay—		(6) Net profit for year—	
Assets in operation—	£	North Island system	£ 556,170
North Island system	9,843,028	South Island system	177,744
South Island system	6,988,580	Total profit for year	733,923
Total assets in operation	16,831,608	(7) Allocation of Profits—	
Assets not in operation—		Sinking Fund—	
North Island system	1,718,677	North Island system	148,937
South Island system	300,473	South Island system	126,227
Total assets not in operation	2,019,150		275,164
Total capital outlay	18,850,758	Income-tax, &c.—	
(2) Revenue for year—		North Island system	284,532
North Island system	1,533,136	South Island system	51,517
South Island system	678,813		336,049
Total revenue for year	2,211,949	Reserve Fund—	
(3) Costs—		North Island system	122,710
Working-costs—		South Island system	Nil.
North Island system	640,884		122,710
South Island system	173,288	(8) Accumulated Depreciation Reserve—	
Total working-costs for year	814,172	North Island system	1,112,633
(4) Capital charges—		South Island system	813,288
Interest—		Total Depreciation Reserve	1,925,921
North Island system	336,073	(9) Accumulated Sinking Fund—	
South Island system	254,070	North Island system	1,308,951
Depreciation—		South Island system	543,856
North Island system	Nil.	Total Sinking Fund Reserve	1,852,807
South Island system	73,711	Arrears in Sinking Fund payments not	
Total capital charges for year—		yet appropriated—	
North Island	336,073	North Island system	Nil.
South Island	327,781	South Island system	214,654
	663,854	(10) Reserve Fund—	
(5) Total cost for year—		North Island system	303,958
North Island	976,957	South Island system	86,766
South Island	501,129	Total Reserve Fund	390,724
	1,478,026		

(Continued on next page.)

TABLE II.—ANALYSIS OF CAPITAL OUTLAY AS AT 31ST MARCH, 1941.

North Island System.		South Island System.			Combined Totals.
Headworks and power-stations—		Headworks and power-stations—			
Land, fencing, and roading—		Land, fencing, and roading—	£	£	
Arapuni	£ 106,059	Coleridge	25,841		
Horahora	3,208	Waitaki	48,441		
Mangahao	74,707	Southland	12,226		
Waikaremoana	18,533	Arnold River (Kaimata)	1,456		
Taupo	30,093	Highbank	1,842		
					323,006
Headworks—		Headworks—			
Arapuni	1,221,524	Coleridge	550,679		
Horahora	151,468	Waitaki	1,073,524		
Mangahao	943,849	Southland	86,816		
Waikaremoana	199,148	Arnold River (Kaimata)	109,524		
Lower development	565,860	Highbank	18,763		
Karapiro	117,073	Tekapo	89,963		
					5,127,996
Generating-station, buildings, and village—		Generating-station, buildings, and village—			
Arapuni	257,872	Coleridge	101,073		
Horahora	61,037	Waitaki	488,974		
Mangahao	131,095	Southland	43,199		
Waikaremoana	263,802	Arnold River (Kaimata)	8,617		
		Highbank	13,143		
					1,368,812
Generating plant and machinery—		Generating plant and machinery—			
Arapuni	927,834	Coleridge	194,701		
Horahora	95,491	Waitaki	362,060		
Mangahao	220,978	Southland	60,641		
Waikaremoana	280,500	Arnold River (Kaimata)	26,843		
Lower development	56,003	Highbank	13,340		
					2,238,391
Auxiliary stations (three)—Penrose, Huntly, Grand Junction	77,695	Auxiliary station (one)—Dobson (ex Lyttelton)	133,220		210,915
Transmission and distribution—		Transmission and distribution—			
Primary distribution—		Primary distribution—			
11 kV. lines	62,822	11 kV. lines	540,747		
33 kV. lines		33 kV. lines	58,871		
50 kV. lines	422,883	50 kV. lines			
66 kV. lines		66 kV. lines	610,255		
110 kV. lines	1,855,470	110 kV. lines	392,557		
Secondary distribution		Secondary distribution	327,722		
					4,271,327
Substations—		Substations—			
11 kV. substations	13,345	11 kV. substations			
33 kV. substations		33 kV. substations	35,148		
50 kV. substations	416,953	50 kV. substations			
66 kV. substations		66 kV. substations	471,841		
110 kV. substations	1,135,896	110 kV. substations	257,747		
					2,330,930
General—		General—			
General offices, garages, stores, and other accommodation	70,326	General offices, garages, stores, and other accommodation	29,205		
Telephone services	178,123	Telephone services	77,437		
Explorations and preliminary surveys; engineering, office, and general expenses; charges and expenses of raising loans	576,825	Explorations and preliminary surveys; engineering, office, and general expenses; charges and expenses of raising loans	533,018		
Interest during construction	1,024,828	Interest during construction	489,619		
					2,979,381
Grand totals	11,561,705		7,289,053		18,850,758

TABLE III.—OPERATING OR WORKING COSTS FOR YEAR ENDED 31ST MARCH, 1941.

	North Island System.				South Island System.			
	Cost.	Cost per Unit.			Cost.	Cost per Unit.		
		Generated.	Distributed.	Sold.		Generated.	Distributed.	Sold.
(a) Hydro stations	£ 63,859	d. 0 0139	d.	d.	£ 31,048	d. 0 0178	d.	d.
(b) Fuel stations	12,380	2 9598			8,422	7 0720		
(c) Auxiliary stations, power purchased, and standby provision	419,238	0 7097			523	2 5442		
Generated and purchased	495,477	0 0954	0 1054	0 1059	39,993	0 0229	0 0266	0 0268
(d) Transmission	31,784	0 0061	0 0068	0 0068	24,565	0 0140	0 0163	0 0164
(e) Communication system	2,296	0 0004	0 0005	0 0005	1,373	0 0008	0 0009	0 0009
(f) Substations	42,390	0 0082	0 0090	0 0091	22,230	0 0127	0 0148	0 0149
(g) Distribution	2,160	0 0004	0 0005	0 0005	19,934	0 0114	0 0132	0 0133
(h) System operations	13,821	0 0027	0 0029	0 0030	11,782	0 0067	0 0078	0 0079
(i) Management and general expenses	52,956	0 0102	0 0109	0 0113	53,412	0 0305	0 0355	0 0358
	640,884	0 1234	0 1363	0 1370	173,288	0 0990	0 1151	0 1160

North Island System.

Units generated—

Hydro

1,103,170,650

South Island System.

419,548,030

TABLE IX.—STATISTICS OF POPULATION, CONSUMERS, GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, &C., FOR THE YEAR ENDED 31ST MARCH, 1941.

Supply Authorities.	Population included in Area of Supply.	Number of Consumers.	Source of Supply.	Year when Supply commenced.	Capacity of Generating Plant.				Static Head in Feet.	Voltage.				Secondary Distribution (and System of Supply).	Distribution Transformers.		Route-miles of Lines.	Street Lighting System.	No.
					Main Plant.		Standby Plant.			Transmission.	Primary Distribution.	Number.	Total KVA.						
					kW.	kVA.	kV.	kVA.											
10 YEARS DEPARTMENT.																			
North Island system	50,530	12,342	I.	1915	103,500*	116,954	5,700† 1,100† 1,000†	7,200 1,100 1,250	Atapuhi = 175 Mangahao = 806 Horahora = 27 Waikare-moana = 870 Coleridge = 480 Arnold River = 62.5 Waikaki = 70 Monewai = 184	11,000 3,300	11,000 6,600 3,300	400/230 A.C.	65	5,928	1,511	..	1		
Totals	50,530	12,342	..	..	290,145	347,730	13,110	10,114	..	..	..	..	1,789	27,785	3,412	Parallel	2
POWER BOARDS.																			
Suburban	19,330	4,862	G.S.	1923	..	..	37,950† 3,550†	47,347 D.C.	..	6,600 (\$)	..	400/230 A.C.	909	11,854	1,000	Series	1
uckland	210,700	87,435	G.N.	1908	..	..	72*	90	310	3,300 (\$)	..	400/230 A.C.	1,128	77,043	1,273	Series and Parallel	2
North Peninsula	3,550	1,118	G.S.	1921	..	..	..	..	123	400	..	400/230 A.C.	199	1,838	218	Parallel	3
Bay of Islands	32,100	1,040	I. & G.N.	1939	88*	98	..	..	..	..	..	400/230 A.C.	339	2,895	317	Parallel	4
Bay of Plenty	13,270	2,378	G.N.	1928	..	..	..	..	..	..	..	400/230 A.C.	390	5,625	314	Series and parallel	5
after 10 Cambridge	6,000	1,840	G.N.	1921	..	..	..	..	..	..	..	400/230 A.C.	158	2,308	200	Series and parallel	6
Central Hawke's Bay	10,450	2,193	G.N.	1925	..	..	..	..	..	..	..	400/230 A.C.	366	4,897	377	Parallel	7
Central Waikato	29,030	7,386	G.N. & B.	1921	..	..	..	..	..	..	..	400/230 A.C.	472	11,704	881	Parallel	8
Manawatu	12,550	3,272	G.N.	1925	..	..	..	..	..	..	..	400/230 A.C.	307	3,063	359	Series and parallel	9
Manukau	21,300	5,381	G.N.	1925	..	..	..	..	..	..	..	400/230 A.C.	510	10,034	777	Series and parallel	10
Waikato Bay	3,500	534	I. & B.	1929	..	..	..	..	..	..	..	400/230 A.C.	67	805	81	Parallel	11
Waikato Bay	18,030	4,930	I. & G.S.	1926	200*	250	..	..	330	..	..	400/230 A.C.	167	9,903	279	Series	12
Waikato Bay	32,370	9,133	G.N.	1927	..	..	530† 303† 144†	650 D.C. 130	..	..	..	400/230 D.C.	335	12,010	488	Series and parallel	13
Waikato Bay	18,550	6,132	G.N.	1924	..	..	..	..	..	..	..	400/230 A.C.	222	9,055	381	Series and parallel	14
Waikato Bay	54,890	10,415	G.N.	1924	..	..	..	..	..	..	..	400/230 A.C.	244	18,147	928	Series and parallel	15
Waikato Bay	6,800	783	G.S.	1925	..	..	..	..	..	..	..	400/230 A.C.	206	1,600	103	Parallel	16
Waikato Bay	23,420	5,943	G.N.	1924	..	..	..	..	..	..	..	400/230 A.C.	580	12,483	684	Series and parallel	17
Waikato Bay	15,400	3,400	I.	1927	1,000*	1,250	..	1,602	100	6,600	..	400/230 A.C.	223	4,300	292	Series and parallel	18		
Waikato Bay	27,290	4,282	G.N.	1936	..	..	..	..	..	..	..	400/230 A.C.	709	10,243	742	Parallel	19
Waikato Bay	15,400	3,644	G.S.	1928	..	..	..	..	..	..	..	400/230 A.C.	644	5,937	922	Parallel	20
Waikato Bay	0,090	1,342	G.N.	1921	..	..	148†	185	47	6,600 (\$)	..	400/230 A.C.	133	1,424	179	Series and parallel	21
Waikato Bay	34,590	5,008	G.S. & B.	1926	..	..	..	..	..	..	..	400/230 A.C.	383	3,927	671	Series and parallel	22
Waikato Bay	6,300	1,045	I. & B.	1925	1,600*	2,000	..	..	987	6,600 (\$)	..	400/230 A.C.	264	5,695	293	Parallel	23

(For notes see page 23.)

TABLE IX.—STATISTICS OF POPULATION, CONSUMERS, GENERATING-PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, &C., FOR THE YEAR ENDED 31ST MARCH, 1941—continued.

Supply Authorities.	Population included in Area of Supply.	Number of Consumers.	Source of Supply.	Year when supply commenced.	Capacity of Generating Plant.				Static Head in Feet.	Voltage.				Route-miles of Lines.	Street Lighting System.	No.	
					Main Plant.		Standby Plant.			Transmission.	Primary Distribution.	Secondary Distribution (and System of Supply).	Distribution Transformers.				
					k.W.	k.V.A.	k.W.	k.V.A.					Number.				Total k.V.A.
Boards—continued.																	
Bay ..	25,100	6,321	G.N.	1912	..	..	..	..	..	..	..	..	..	..	..	..
Canterbury ..	26,300	5,453	G.S.	1925	..	..	..	..	..	..	..	..	..	..	..	..
Taranaki ..	15,580	4,100	I. & G.N.	1929	550*	695	486†	007	..	..	..	..	..	..	..	..
Essexmere ..	14,000	2,964	G.S. & B.	1922	..	..	..	..	..	..	..	..	..	..	..	..
Maki ..	15,680	3,100	I. & G.N.	1927	4,800*	..	..	..	39,000	..	..	..	..	..	..	..
Ma ..	9,240	2,187	G.N.	1925	..	..	..	..	..	..	..	..	..	..	..	..
Ngara ..	11,000	2,444	G.N. & B.	1926	..	..	..	..	..	..	..	..	..	..	..	..
Waimutu ..	12,770	2,701	G.N.	1921	..	..	..	..	33,000	..	..	..	..	..	..	..
..	1,500	400	I.	1924	750*	939	..	..	..	..	..	..	..	..	..	..
..	42,310	10,418	G.N.	1921	..	..	..	..	..	..	..	..	..	..	..	..
..	15,980	3,133	I. & B.	1933	750†	940	100†	125	..	..	..	..	..	..	..	..
..	25,440	6,201	G.N.	1923	440*	542	..	..	..	..	..	..	..	..	..	..
..	3,800	594	I.	1925	624*	780	..	..	..	..	..	..	..	..	..	..
..	7,800	547	G.N.	1923	..	..	..	..	..	..	..	..	..	..	..	..
..	18,010	4,983	G.S.	1926	..	..	..	..	..	..	..	..	..	..	..	..
..	52,340	10,316	G.N.	1926	..	..	..	..	..	..	..	..	..	..	..	..
..	10,960	1,919	G.N.	1926	..	..	..	..	..	..	..	..	..	..	..	..
..	46,230	12,007	G.N.	1924	..	..	..	..	..	..	..	..	..	..	..	..
..	
..	974,050	246,934	..	..	10,808	12,894	47,489	53,081	..	..	..	..	..	..	..	..
..	
..	104,000	34,231	G.S.	1903	..	..	..	..	..	..	..	..	..	..	..	..
..	83,090	31,518	I. & G.S.	1907	..	..	..	..	..	..	..	..	..	..	..	..
..	22,000	7,042	G.S.	1914	..	..	..	..	..	..	..	..	..	..	..	..
..	11,400	3,643	I. & B.	1923	750†	937	500†	624	..	..	..	..	..	..	..	..
..	23,000	7,010	B.	1924	..	..	..	..	..	..	..	..	..	..	..	..
..	121,000	41,004	G.N.	1907	..	..	..	..	..	..	..	..	..	..	..	..
..	305,000	124,007	..	..	17,750	22,187	32,051	38,234	..	..	..	..	..	..	..	..

(For notes see page 23.)

TABLE X.—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31ST MARCH, 1941—continued.

Supply Authorities.	Connected Load.		Maxi- mum Load on System.	Annual Demand Factor.	Annual Load %	Generated.			Purchased.		Total generated and purchased.	In Bulk for Resale.	Sold.		Non- productive. %	Percentage Non- Productive	Units sold (Average).			Consumers per Route-mile of Line.	Ratio of Consumers to Population in Area of Supply.	Average Maximum Demand per Retail Consumer.	No.									
	Including Bulk Supply.	Exclud- ing Bulk Supply.				Water.	Steam.	Oil.	Gas.	kWh.			kWh.	kWh.			kWh.	kWh.	kWh.					kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.
ER LOCAL AUTHORITIES.																																
Brisbane City Councils.																																
... ..	240,300	218,484	32,744	13.65	41.64	601,070	15,000	119,449,580	119,449,580	97,592,926	9,712,341	12,144,313	11.06	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038	1,038								
... ..	136,000	122,107	24,849	17.86	48.00	41,035	2,905,360	10,661,070	10,661,070	8,918,184	7,091,148	13,467,007	13.83	97	97	97	97	97	97	97	97	97	97	97								
... ..	24,201	22,503	970	7.53	31.31	2,905,360	2,905,360	3,070,840	3,070,840	1,048,265	1,048,265	1,048,265	0.03	25	25	25	25	25	25	25	25	25	25	25								
... ..	37,439	37,439	5,304	14.16	60.87	72,505,700	72,505,700	28,286,448	28,286,448	22,016,735	22,016,735	6,200,710	12.55	151	151	151	151	151	151	151	151	151	151	151								
... ..	211,428	211,428	36,948	18.29	42.42	76,204,665	76,204,665	209,886,378	209,886,378	72,565,700	123,289,102	14,031,466	10.21	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,018								
Totals	379,390	326,252	53,138	14.42	38.84	2,104,914	2,104,914	475,837,615	475,837,615	91,490,127	339,764,131	44,583,367	9.36	931	931	931	931	931	931	931	931	931	931	931								
Borough Councils.																																
... ..	2,607	2,607	32,211	13.24	92.02	703,165	703,165	703,165	703,165	610,926	12,703,071	92,938	13.21	296	296	296	296	296	296	296	296	296	296	296								
... ..	29,430	29,430	3,132	13.37	48.17	13,215,270	13,215,270	13,215,270	13,215,270	12,703,071	12,703,071	611,209	3.87	736	736	736	736	736	736	736	736	736	736	736								
... ..	1,659	1,659	230	14.75	51.40	1,035,630	1,035,630	1,035,630	1,035,630	657,366	657,366	36,375	3.51	787	787	787	787	787	787	787	787	787	787	787								
... ..	5,009	5,009	400	9.60	40.70	713,600	713,600	1,745,000	1,745,000	1,062,366	1,062,366	85,710	4.73	409	409	409	409	409	409	409	409	409	409	409								
... ..	15,186	15,186	2,658	17.50	69.08	97,360	97,360	14,138,817	14,138,817	925,084	925,084	925,084	6.59	822	822	822	822	822	822	822	822	822	822	822								
... ..	35,110	35,110	6,171	17.42	49.40	33,514,203	33,514,203	45,746,243	45,746,243	29,681,927	29,681,927	4,549,566	13.51	1,144	1,144	1,144	1,144	1,144	1,144	1,144	1,144	1,144	1,144	1,144								
... ..	1,545	1,545	184	3.67	23.12	57,400	57,400	1,030,000	1,030,000	609,250	609,250	73,800	10.37	351	351	351	351	351	351	351	351	351	351	351								
... ..	2,545	2,545	353	13.94	55.55	259,890	259,890	1,034,066	1,034,066	1,465,232	1,465,232	169,864	16.72	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036								
... ..	820	820	106	11.91	27.81	19,000	19,000	249,500	249,500	229,168	229,168	30,322	11.82	165	165	165	165	165	165	165	165	165	165	165								
... ..	3,405	3,405	270	4.62	34.34	1,209,540	1,209,540	1,209,540	1,209,540	592,666	592,666	66,975	6.97	300	300	300	300	300	300	300	300	300	300	300								
... ..	3,853	3,853	314	8.76	56.73	5,162,051	5,162,051	5,162,051	5,162,051	3,313,312	3,313,312	248,739	15.92	586	586	586	586	586	586	586	586	586	586	586								
... ..	12,102	12,102	1,187	9.74	49.69	5,162,051	5,162,051	5,162,051	5,162,051	4,650,543	4,650,543	516,727	10.00	292	292	292	292	292	292	292	292	292	292	292								
... ..	12,489	12,489	1,868	14.95	49.06	8,177,334	8,177,334	8,177,334	8,177,334	7,371,237	7,371,237	806,097	9.85	686	686	686	686	686	686	686	686	686	686	686								
... ..	4,447	4,447	915	20.57	56.26	4,511,250	4,511,250	4,511,250	4,511,250	3,622,235	3,622,235	889,015	15.27	981	981	981	981	981	981	981	981	981	981	981								
... ..	3,979	3,979	489	12.69	56.79	2,432,050	2,432,050	2,432,050	2,432,050	2,076,904	2,076,904	355,956	14.63	631	631	631	631	631	631	631	631	631	631	631								
... ..	4,107	4,107	313	7.85	40.24	407,110	407,110	1,105,200	1,105,200	974,901	974,901	130,389	11.70	441	441	441	441	441	441	441	441	441	441	441								
... ..	25,816	25,816	3,072	11.89	77.77	2,734,060	2,734,060	5,198,520	5,198,520	2,130,800	2,130,800	531,774	19.90	494	494	494	494	494	494	494	494	494	494	494								
... ..	2,000	2,000	278	13.24	60.32	2,350,062	2,350,062	2,350,062	2,350,062	4,009,864	4,009,864	23,800	1.740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740								
... ..	3,408	3,408	480	11.58	53.32	1,201,118	1,201,118	1,201,118	1,201,118	2,297,858	2,297,858	61,204	2.50	938	938	938	938	938	938	938	938	938	938	938								
... ..	28,072	28,072	529	15.53	69.32	2,980,080	2,980,080	2,980,080	2,980,080	1,148,764	1,148,764	52,354	4.35	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126								
... ..	4,716	4,716	783	16.60	40.85	12,697,000	12,697,000	12,697,000	12,697,000	11,095,318	11,095,318	207,205	10.03	623	623	623	623	623	623	623	623	623	623	623								
... ..	3,525	3,525	278	6.69	52.73	3,419,638	3,419,638	3,419,638	3,419,638	3,239,442	3,239,442	180,100	5.26	215	215	215	215	215	215	215	215	215	215	215								
... ..	5,517	5,517	428	12.13	33.70	1,284,202	1,284,202	1,284,202	1,284,202	1,169,486	1,169,486	120,716	9.40	565	565	565	565	565	565	565	565	565	565	565								
... ..	13,865	13,865	1,500	10.81	44.26	2,489,000	2,489,000	2,489,000	2,489,000	2,369,485	2,369,485	129,515	5.06	1,182	1,182	1,182	1,182	1,182	1,182	1,182	1,182	1,182	1,182	1,182								
Totals	33,388	217,773	...	...	...	435,160	435,160	109,869,136	109,869,136	23,826,878	121,183,518	18,634,863	11.30	775	775	775	775	775	775	775	775	775	775						
Town Boards.																																
... ..	1,610	1,610	320	10.80	62.62	839,408	839,408	1,472,508	1,472,508	1,282,434	1,282,434	190,074	12.00	754	754	754	754	754	754	754	754	754	754	754								
... ..	488	488	39	8.18	65.05	256,800	256,800	256,800	256,800	256,062	256,062	30,738	10.72	674	674	674	674	674	674	674	674	674	674	674								
... ..	186	186	30	16.23	75.75	62,426	62,426	62,426	62,426	53,760	53,760	8,666	13.86	18	18	18	18	18	18	18	18	18	18	18								
Totals	2,284	2,284	...	...	...	1,178,694	1,178,694	1,821,784	1,821,784	1,502,256	1,502,256	229,478	12.80	559	559	559	559	559	559	559	559	559	559	559					

(For notes see page 26.)

TABLE X.—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31st MARCH, 1941—continued.

Supply Authorities.	Connected Load.		Annual Load Factor.	Maxim. Load on System.	Generated.			Purchased.		Total generated and purchased.		Sold.		Units sold (Average).				Consumers per Route-mile of Line.	Ratio of Consumers to Population in Area of Supply.	Average Maximum Demand per Retail Consumer.			
	Includ- ing Bulk Supply.	Exclud- ing Bulk Supply.			Water.	Steam.	Oil.	Gas.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	Per Cent of Distribution.	Per Head of Population.	Per Route-mile of Line.				Per Cent of Distribution.	kWh.	kWh.
LOCAL AUTHORITIES— <i>contd.</i>																							
County Councils.	kW.	kW.	%	kW.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	%	kWh.	kWh.	kWh.	%	kWh.				
thetote	7,584	1,037	12.35	8,621	3,006,319	3,006,319	3,245,088	3,245,088	3,606,319	3,606,319	3,606,319	3,094	100	9.99	3,094	100	154,550	49.05	0.893				
houra	237	647	0.025	884	141,560	141,560	103,106	38,384	38,384	141,560	141,560	32	32	27.11	147	421	12,505	29.69	0.244				
chison	527	84	15.93	611	347,000	347,000	274,464	79,136	79,136	347,000	347,000	33	33	21.02	1,445	39	17,415	22.09	0.442				
va.	84	26	30.95	110	33,025	33,025	23,535	9,490	9,490	33,025	33,025	30	30	28.73	214	30	6,724	31.45	0.230				
umairi	20,365	2,470	9.21	22,835	11,358,401	11,358,401	10,215,891	6,070	6,070	11,358,401	11,358,401	122	122	10.00	2,414	122	60,471	28.59	0.574				
Totals	34,797	34,797		34,797	324,300	324,300	197,873	126,427	197,873	324,300	324,300	121	121	10.44	2,379	121	70,403	29.57	0.574				
Totals, other Local Authorities	881,052	412,773		1,293,825	105,517,217	105,517,217	2,737,949	109,869,472	109,869,472	105,517,217	105,517,217	127	127	9.90	2,541	127	196,695	59.99	0.574				
COMPANIES.																							
West Electric, Ltd.	3,503	1,178	33.06	4,681	5,264,000	5,264,000	4,310	377,114	5,641,114	5,641,114	5,641,114	230	230	14.80	489	230	160,218	30.00	0.544				
Kays, Kanda, and	112	131	12.16	243	900,000	900,000	22,080		19,169	919,169	919,169	16	16	20.80	38	253	7,585	33.50	0.194				
Electric, Lough and	571	133	23.29	704	200,000	200,000	22,080		103,150	303,150	303,150	57	57	23.35	109	420	22,560	53.86	0.342				
Power Co., Ltd., Ltd.	110	181	15.12	291	80,900	80,900	28,322	134,093	28,322	109,222	109,222	110	110	9.07	80	408	25,752	55.00	0.327				
Power Co., Ltd., Ltd.	7,303	3,169	43.51	10,472	13,912,000	13,912,000	5,815,870	5,815,870	14,127,870	14,127,870	14,127,870	864	864	10.35	408	1,040	276,859	39.20	0.327				
Power Co., Ltd., Ltd.	2,140	312	14.51	2,452	694,790	694,790		624,240	1,319,030	1,319,030	1,319,030	31	31	37.98	264	2,741	14,258	5.20	0.810				
Totals	13,817	13,817		13,817	20,070,790	20,070,790	73,881	1,136,353	21,361,124	21,361,124	21,361,124	252	252	12.30	1,353	1,401	117,078	12.45	20.00				
Grand totals	3,204,351	2,388,380		5,592,731	1,093,362,131	1,093,362,131	17,689,323	109,869,472	3,459,476,919	3,459,476,919	3,459,476,919	1,116	1,116	20.89	2,981	1,116	51,394	15.69	28.00				

TABLE A.—SUMMARY OF TOTALS RELEVANT TO TABLE X.

Supply Authority.	Units generated.	Population included in Area of Supply.	Number of Consumers.	Capital invested in Transmission and Distribution System.
Works Department	kWh. 1,524,007,370	Number 50,530	Number 12,785	£(N.Z.) 8,512,493
Electric-power Boards	kWh. 101,339,567	Number 974,950	Number 246,994	13,101,566
Local Authorities—City Councils	kWh. 140,537,718	Number 365,000	Number 124,007	3,588,869
County Councils	kWh. 36,906,767	Number 156,050	Number 49,310	927,359
Town Boards	kWh. 643,040	Number 2,860	Number 705	22,594
County Councils	kWh. 522,179	Number 20,100	Number 5,829	114,112
Totals, other Local Authorities	kWh. 184,659,700	Number 544,000	Number 180,511	4,652,910
Utilities	kWh. 20,225,571	Number 9,530	Number 1,992	74,256
Totals for all Supply Authorities	kWh. 1,830,232,208	Number 1,579,100	Number 442,222	20,401,225

NOTES TO TABLE X.

Based on Total Units Sold to Ultimate Consumers (1,448,310,043).
 Based on Total Units Sold to Ultimate Consumers less Units supplied for Large Industrial and Traction Loads (1,318,510,639).
 834
 2,981

Units sold per head of population ...
 Units sold per consumer ...

NOTES.—¹ Includes Arapuni, Homohoro, Waikaremoana, Manaporo, Mangorei, Kourarau, and Opunake. ² Includes Lake Coleridge, Waitaki, Monowai, and Arnold River. ³ Not actively functioning. ⁴ Board commenced supplying power in March, 1933. ⁵ First shown in returns for 1938. ⁶ Generated under agreement for Public Works Department. ⁷ Includes 12,153,750 units generated under agreement for Public Works Department. ⁸ Includes 2,079,093 units generated under agreement for Public Works Department. ⁹ Made up as follows: From Auckland Power Board, 47,471,005 units; From Auckland Electric Power Board, 1,411,000 units; From Auckland City Council, 93,840 units; From Auckland Borough Council, 12,153,750 units; From Auckland City Council, 1,101,745 units; From Napier Borough Council, 72,565,700 units; From Waikaremoana Power Board, 292,490 units. ¹⁰ Made up as follows: From Christchurch Tramway Board, 7,400 units; Invercargill City Council, 41,035 units. ¹¹ Includes units generated for Public Works Department. ¹² Includes 1,701,745 units sold to Public Works Department. ¹³ Includes 93,840 units generated under agreement for Public Works Department. ¹⁴ Includes 222,459 units sold to Public Works Department. ¹⁵ Includes 2,464,430 units sold to Public Works Department. ¹⁶ Includes 18,455 units sold to Public Works Department. ¹⁷ Includes units used for charge, and units supplied to station auxiliaries, &c. ¹⁸ Total units sold in bulk plus retail distribution on transmission and distribution system, including *pro rata* allocation of miscellaneous capital expenditure. ¹⁹ Percentage of total units generated and purchased. ²⁰ Percentages of total units generated at consumers' meters. ²¹ Issued chiefly included in Tauranga District Council's returns. ²² Excludes units sold for gold-dredging (3,478,060). ²³ Excludes units sold for gold-dredging (7,152,074). ²⁴ Excludes units sold for gold-dredging (4,101,415). ²⁵ Excludes units sold for cement-manufacture (6,464,464) and units sold to Whangarei Borough Council (3,815,870). ²⁶ Total units sold retail and bulk divided by route-miles of line.

TABLE XI.—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION AND OPERATION FOR THE YEAR ENDED 31ST MARCH, 1941.

Table with columns: Supply Authorities, Capital Outlay on Electric Supply System, Loan Liability, Revenue (Retail, Bulk, Total), Working-expenses (Cost of Power, Distribution, Management), Capital Charges (Sinking Fund, Depreciation, Other), Total Annual Costs, Net Results (Profit, Loss), and Amount collected by Rates & other sources. Rows include Public Works Departments (North Island, South Island) and various Power Boards (Ashburton, Auckland, etc.).

(For notes see page 29.)

TABLE XI.—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31ST MARCH, 1941—continued.

Supply Authorities.	Capital Outlay on Electric-supply System.	Loan Liability.	Revenue.				Working-expenses.				Capital Charges.				Net Results.		No. of Delinquencies.			
			From Sale of Electrical Energy.		From Profits and Accounts.	Other Sources (excluding Rates).	Total.	Cost of Power.	Cost of Transmission and Distribution.	Management and General.	Total.	Interest.	Sinking Fund.	Depreciation.	Other Capital Charges.	Total.		Total Annual Costs.	Profit.	Loss.
			Retail.	Wholesale.																	General.	Purchased.
OTHER LOCAL AUTHORITIES.																				
Christchurch	1,093,400	298,433	324,487	15,328	654	693	341,102	182,954	50,574	24,409	260,907	11,730	30,594	1,104e	47,878	314,875	26,227	..	1	
Dunedin	1,908,296	1,178,700	286,200	12,245	715	1,145	300,314	32,100	45,893	21,571	122,155	46,880	43,043	2,070e	92,008	214,403	86,851	..	3	
Invercargill	1,165,920	85,421	48,029	192	..	1,662	38,783	22,792	4,980	5,326	36,007	4,041	456	3,190p	7,693	44,597	16,186	..	3	
Nelson	160,107	80,386	36,407	..	193	1,440	38,049	15,490	4,486	4,692	2,829	2,114	..	..	8,239	31,256	6,793	..	4
Palmerston North	280,211	157,187	79,859	6,837	578	1,079	80,253	41,511	3,655	4,612	58,021	6,901	5,830	{ 3,007p }	16,553	74,574	14,070	..	6	
Wellington	1,533,567	354,069	487,953	182,878	1,139	34,221	676,191	108,124	87,258	40,873	529,855	18,370	5,203	..	31,318	561,173	115,018	..	6	
Totals	5,140,627	2,141,193	1,242,944	217,480	3,279	40,989	1,504,092	477,080	293,876	101,366	1,037,229	90,561	40,767	14,118	293,769	1,240,338	263,754	..	..
Borough Councils.																				
Bluff	12,483	5,537	5,842	..	285	170	6,297	3,274	365	886	4,555	250	..	..	541	6,096	1,201	..	1
Hamilton	86,760	27,000	56,857	..	345	102	57,019	22,301	13,919	2,700	38,620	1,100	282	..	4,091	43,011	14,008	..	3	
Ngarewa	9,519	3,895	4,060	..	100	31	4,200	1,087	895	375	3,257	266	50	120p	446	3,701	56	..	4	
Palmerston North	14,083	6,215	4,060	..	270	..	9,835	4,253	1,002	519	6,074	184	..	..	601	6,675	489	..	5
Waipukurua	139,641	134,032	55,964	594	..	..	66,558	32,529	6,174	4,473	36,174	5,096	1,288	..	8,067	43,841	2,600	..	6
New Plymouth	381,106	230,501	96,290	20,470	1,568	1,712	120,010	46,825	32,830	5,163	87,783	10,712	1,435	{ 5,885p }	18,560	106,343	13,067	..	7	
Okaitika	9,658	10,484	5,143	..	75	..	5,218	1,161	962	636	2,871	466	350	..	1,228	4,090	1,110	..	8	
Patea	22,715	16,072	7,332	..	..	28	7,360	2,840	766	1,062	5,138	670	156	..	1,125	6,293	1,097	..	9
Ruatorua	17,058	13,036	4,536	..	..	..	4,536	..	520	443	3,550	663	208	..	4,481	4,062	988	..	10
Ruatorua	15,053	10,505	2,366	..	..	4	2,360	..	333	306	1,172	444	..	..	800	2,062	988	..	11
Waipukurua	25,512	19,894	5,327	512	364	10	6,213	3,007	888	960	2,200	808	542	..	2,445	4,051	1,562	..	12	
Waipukurua	10,812	3,780	7,067	..	521	51	7,637	1,357	1,357	1,075	2,200	165	137	..	634	6,043	1,562	..	13	
Waipukurua	37,787	9,757	15,230	..	352	..	15,582	9,454	2,359	995	12,808	301	251	73p	915	13,723	1,850	..	14	
Waipukurua (Tourist Department)	120,739	120,739	38,631	..	..	912	39,543	15,168	7,700	2,258	23,246	5,801	2,320	..	10,441	95,087	3,850	..	15
Waipukurua	35,371	41,160	17,079	..	..	..	17,079	8,276	2,897	1,736	11,534	1,736	1,301	195p	3,232	14,766	2,313	..	16
Waipukurua	17,622	6,402	8,021	..	26	..	8,047	4,518	1,497	715	6,730	502	428	..	828	7,558	480	..	17	
Waipukurua	10,854	52,173	7,473	5,939	..	1	7,486	1,390	1,293	622	4,537	202	123	100p	2,125	6,962	824	..	18	
Waipukurua	17,890	12,726	14,623	..	42	271	20,880	5,450	1,601	1,888	10,885	502	1,310	240p	4,846	15,731	5,149	..	19	
Waipukurua	179,683	119,307	18,022	10,572	..	602	29,868	6,027	2,453	3,426	14,010	5,144	2,490	..	8,140	23,050	6,818	..	20	
Waipukurua	21,225	6,314	9,521	..	110	..	10,023	5,004	2,800	588	8,482	244	72	130p	455	9,937	1,086	..	21	
Waipukurua	14,632	6,319	4,862	..	..	76	4,938	1,925	789	335	3,050	270	276	..	710	3,766	1,178	..	22
Waipukurua	119,857	15,961	15,140	..	85	160	15,200	5,587	3,335	782	9,091	452	140	..	502	10,583	4,517	..	23	
Waipukurua	14,882	13,400	13,882	..	384	47	13,879	6,245	1,367	4,835	35,831	1,970	3,302	1,412	6,684	42,515	12,887	..	24	
Waipukurua	36,471	10,000	11,336	..	477	25	7,097	2,405	1,210	1,109	9,837	460	420	..	999	10,838	3,043	..	25	
Waipukurua	38,090	33,573	11,336	..	2	9	11,347	1,149	1,039	1,404	7,085	450	1,034	147	1,064	5,410	1,687	..	26	
Waipukurua	90,892	20,643	26,716	..	880	122	164	11,522	2,370	1,451	7,077	1,451	938	..	3,184	8,891	2,631	..	27	
Totals	1,022,970	4,036,794	538,401	38,087	5,990	8,383	590,951	18,003	108,370	43,570	388,086	45,770	15,793	7,750	92,839	481,825	109,126	..	483	
Town Boards.																				
Pongakawa	16,397	13,030	7,126	..	193	6	7,325	2,431	297	760	4,921	975	390	938	2,177	6,798	527	..	1	
Pongakawa	5,157	2,150	1,346	..	173	63	1,572	387	596	333	1,333	91	22	369	852	1,815	243	..	2	
Pongakawa	2,950	3,500	1,242	..	..	..	1,242	376	128	200	704	149	110	..	279	963	..	..	3
Totals	24,504	18,680	9,714	..	366	69	10,139	3,104	1,021	1,310	6,688	915	531	1,307	2,918	9,576	806	243	..	

(For notes see page 29.)

TABLE XI.—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31ST MARCH, 1941—continued.

Supply Authorities.	Capital Outlay on Electric-supply System.	Loan Liability.	Revenue.				Working-expenses.				Capital Charges.				Total Annual Costs.		Net Results.		No. Amount collected by Rates to make up Deficiencies
			From Sale of Electrical Energy.		Trading Accounts.	Other Sources (excluding Rates).	Cost of Power.		Distribution and Transmission.	Management and General.	Interest.	Sinking Fund.	Depreciation.	Other Capital Charges.	Total.	Profit.	Loss.		
			Retail.	Bulk (for Resale.)			General.	Purchased.										General.		Total.
<i>County Councils.</i>																			
1. Heathcote ..	19,226	17,400	13,922	..	60	£	7,682	300	10,000	595	£	1,238	£	2,382	£	13,282	£	631	1
2. Kaihoro ..	9,361	10,648	9,559	..	228	£	2,113	201	2,587	470	£	142	£	1,131	£	3,718	£	385	2
3. Murchison ..	13,471	11,015	1,682	..	163	£	588	803	1,710	494	£	..	£	823	£	2,533	£	308	3
4. Uawa ..	1,950	..	1,430	..	..	£	821	61	892	0	£	..	£	276	£	1,168	£	..	4
5. Waimairi ..	83,884	22,700	32,492	..	65	£	10,277	3,317	24,763	1,002	£	3,404	£	6,050	£	30,802	£	1,795	5
Totals ..	127,892	62,132	52,625	41	391	£	2,984	4,220	40,342	2,570	£	4,844	£	10,662	£	51,504	£	631	
Totals, other Local Authorities	6,024,000	3,258,700	1,843,774	255,608	10,026	£	730,095	316,417	1,473,715	139,822	£	62,711	£	310,126	£	1,783,843	£	370,121	740
<i>COMPANIES.</i>																			
1. Kanieri Electric, Ltd. ..	78,570	60,000	14,932	..	13	£	5,715	1,089	12,130	2,535	£	1,366	£	3,901	£	16,031	£	1,003	1
2. Kaniwhi (L. Keys) ..	5,173	5,114	4,770	..	30	£	452	400	2,640	20	£	..	£	20	£	623	£	..	2
3. Reefton Electric Light and Power Co., Ltd.	7,155	6,000	4,039	..	68	£	748	442	2,640	..	£	284	£	284	£	2,853	£	1,351	3
4. Rawene Motors, Ltd. ..	814	400	763	..	30	£	421	94	575	41	£	124	£	165	£	740	£	53	4
5. Wilson's (N.Z.) Portland Cement, Ltd.	78,841	82,882	7,255	10,601	..	£	3,662	1,810	0,839	..	£	1,921	£	1,921	£	8,700	£	9,489	5
6. Westland Power, Ltd.	34,347	58,148	5,057	..	408	£	1,951	562	6,355	3,331	£	..	£	4,034	£	11,289	£	..	6
Totals ..	204,009	212,544	38,466	10,601	523	£	11,999	4,703	29,156	5,927	£	3,645	£	11,175	£	40,331	£	11,065	
Grand totals	41,552,688	32,039,484	5,443,096	2,474,202	38,623	£	557,865	927,494	4,547,615	1,302,238	£	248,617	£	2,309,256	£	6,850,841	£	1,224,730	10,240
						£	2,514,870	547,386	4,547,615	1,302,238	£	248,617	£	2,309,256	£	6,850,841	£	1,224,730	10,240

NOTES.—¹ Includes Arapuni, Horahora, Mangahao, and Waikaremona Power Stations. ² Includes Lake Coveridge, Waikaki, Monowai, and Arnold River Power Stations.
 Westland Power, Ltd. ³ No return received. ⁴ Includes cost of street lighting. ⁵ Actual running-costs only, including fuel (if any), wages, stores, repairs, and maintenance.
 Department standby plants, £12,380. ⁶ Includes £68,254 standby capital charges. ⁷ Availability rate. ⁸ Exchange on overseas interest payments. ⁹ Principal repayment.
 Not profit for year—
 Public Works Department .. £ 515,739
 Electric-power Boards 318,637
 Cities 263,764
 Boroughs 109,120
 Town Boards 563
 Counties 1,804
 Companies 4,807
 Total, net profit £1,214,400

TABLE XIII.—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31ST MARCH, 1941.

Supply Authorities.	Capital Outlay.			Revenue from Sale of Electricity.					Working-costs.			Capital Charges.			Total Costs.			
	Per Head of Population.	Per Consumer.	Per £ of Revenue.	Per Unit sold (Overall including Bulk Supply).	Per Unit sold (Excluding Bulk Supply).	Per Unit sold (Domestic Supply).	Per Head of Population.	Per Retail Consumer.	Per kW. of Maximum Demand.	Per kW. of Maximum Demand.	Per Unit sold.	Per Cent. of Total Revenue.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Capital Outlay.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Distribution Capital.
PUBLIC WORKS DEPARTMENT.																		
1. North Island system	20.42	81.10	5.99	1.119	0.324	1.063	3.57	13.55	22.78	11.88	49.74	0.583	0.466	0.50	6.96	1.050	21.38	15.08
2. South Island system	18.07	56.16	3.96	0.807	0.340	0.781	4.38	12.81	14.60	8.93	60.76	0.522	0.280	4.38	8.43	0.778	13.32	39.38
Totals	16.37	72.22	7.46	1.348	0.445	1.402	4.71	12.70	25.63	10.43	72.77	0.764	0.360	10.86	8.01	1.049	20.70	18.95
POWER BOARDS.																		
1. Ashburton	19.47	63.82	4.31	0.874	0.324	0.820	4.56	18.60	19.36	12.81	65.90	0.570	0.190	4.53	5.58	0.754	17.95	22.11
2. Auckland	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
3. Bay of Plenty	18.07	70.69	4.96	0.759	0.340	0.762	3.60	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
4. Bay of Islands	18.07	70.69	4.96	0.759	0.340	0.762	3.60	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
5. Buller	16.37	91.36	3.90	0.873	0.445	1.063	4.71	12.70	25.63	10.43	72.77	0.764	0.360	10.86	8.01	1.049	20.70	18.95
6. Cambridge	19.47	63.82	4.31	0.874	0.324	0.820	4.56	18.60	19.36	12.81	65.90	0.570	0.190	4.53	5.58	0.754	17.95	22.11
7. Central Hawke's Bay	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
8. Central Otago	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
9. Dunedin	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
10. East Coast	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
11. Foxton	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
12. Golden Bay	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
13. Grey	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
14. Hawke's Bay	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
15. Horowhenua	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
16. Hutt Valley	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
17. King-country	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
18. Manawatu	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
19. Manawatu-Oroua	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
20. Marlborough	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
21. North Auckland	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
22. North Canterbury	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
23. Otago	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
24. Otago Central	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
25. Poverty Bay	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
26. Seaton	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
27. South Canterbury	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
28. South Taranaki	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
29. Springs-Elesmere	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
30. Taranaki	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
31. Tairāhiti	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
32. Tairāhiti	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
33. Tairāhiti	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
34. Te Awamutu	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
35. Te Awamutu	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
36. Te Awamutu	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
37. Thames Valley	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
38. Waikato	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
39. Waikato	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
40. Waikato	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
41. Waikato	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
42. Waikato	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
43. Waikato	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
44. Waikato-Rangitikei	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
45. Westland	18.03	87.97	5.71	1.001	0.340	0.881	3.28	16.40	21.91	12.81	89.86	0.570	0.219	4.86	5.82	0.708	17.08	21.14
Totals	15.82	62.40	4.29	0.874(φ)	0.445(φ)	1.115(φ)	3.44(φ)	12.00(£)	178.00(¢m)	61.28(¢m)	3.44(φ)	12.00(£)	178.00(¢m)	3.44(φ)	12.00(£)	178.00(¢m)	3.44(φ)	12.00(£)

(For notes see page 32.)

TABLE XIII.—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31ST MARCH, 1941—continued.

Supply Authorities.	Capital Outlay.				Revenue from Sale of Electricity.				Working-costs.			Capital Charges.			Total Costs.		
	Per Head of Population.	Per Consumer.	Per £1 Revenue.	Per Unit sold (including Bank Supply).	Per Unit sold (Overall including Bank Supply).	Per Head of Population.	Per Retail Consumer.	Per kW. of Maximum Demand.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Total Revenue.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Capital Outlay.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Distribution Capital.
OTHER LOCAL AUTHORITIES.																	
City Councils.																	
1. Christchurch	10.51	31.88	3.21	0.760	0.760	3.13	0.46	18.14	1.701	8.15	78.27	0.107	1.46	4.37	0.704	8.03	28.70
2. Dunedin	22.00	60.54	6.30	0.818	0.818	3.47	8.84	18.15	0.851	19.07	40.77	0.243	1.31	4.37	0.665	8.03	28.70
3. Invercargill	7.54	23.56	2.84	1.452	1.452	2.71	7.03	20.55	0.922	19.10	79.70	0.227	1.31	4.37	0.665	8.03	28.70
4. Nelson	13.90	43.60	4.38	3.540	3.540	3.73	9.00	19.96	0.703	16.44	63.04	0.191	2.74	4.63	1.112	15.88	37.88
5. Palmerston North	12.25	41.20	3.33	0.882	0.882	3.40	11.37	18.91	2.236	23.70	60.44	0.803	8.51	5.10	3.030	32.92	31.44
6. Wellington	12.07	37.32	2.40	0.881	0.881	4.07	10.30	17.34	0.650	10.03	65.00	0.158	3.12	5.72	0.716	14.03	44.07
Totals	14.10	41.32	3.52	0.812(d)	0.812(d)	3.52(g)	9.84(c)	20.68	0.802(d)	17.34	78.35	0.039	0.85	5.04	0.687	15.18	47.60
Borough Councils.																	
1. Bluff	6.05	20.94	2.14	2.297	2.297	3.06	9.80	18.14	3.811	18.14	72.33	0.312	1.08	4.33	2.004	15.82	40.82
2. Inverwood	7.40	27.14	2.07	1.102	1.102	3.28	10.20	18.15	0.851	18.15	68.45	0.277	1.31	4.71	0.812	13.78	60.03
3. Kaipoi	9.11	27.00	2.61	1.484	1.484	2.61	7.51	20.55	0.922	20.55	207.87	0.162	4.11	0.04	1.472	21.22	61.49
4. Lyttelton	8.75	15.81	1.72	1.351	1.351	3.14	9.08	19.13	1.544	16.44	63.04	0.191	2.74	3.02	1.350	18.69	26.37
5. Napier	15.27	50.78	3.26	1.028	1.028	3.08	11.29	18.91	0.750	19.96	62.19	0.157	1.84	5.50	0.707	16.40	43.31
6. New Plymouth	5.11	16.28	1.87	2.035	2.035	2.76	8.07	27.95	0.629	15.22	62.19	0.157	3.26	6.90	0.707	16.40	43.31
7. Ohakune	10.41	45.52	3.00	1.200	1.200	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
8. Patea	12.27	37.75	2.76	4.750	4.750	3.26	10.03	42.80	0.841	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
9. Queenstown	10.36	51.55	3.38	2.753	2.753	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
10. Raetihi	8.58	40.82	2.76	1.432	1.432	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
11. Ranganui	4.82	13.25	1.53	1.291	1.291	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
12. Riccarton	6.44	19.84	2.48	0.785	0.785	2.65	7.99	22.63	0.825	22.63	70.82	0.115	2.01	5.86	0.370	17.22	36.77
13. Ross	11.24	36.95	3.12	1.257	1.257	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
14. Stratford	9.06	28.57	2.08	1.072	1.072	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
15. Taupo	6.38	14.80	2.19	0.926	0.926	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
16. Tauranga	4.90	15.00	1.45	1.840	1.840	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
17. Te Anau	17.02	63.00	3.77	1.057	1.057	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
18. Te Puke	45.70	118.42	8.05	0.664	0.664	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
19. Timaru	8.05	27.63	2.23	0.994	0.994	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
20. Tisbury	14.34	47.13	3.00	1.015	1.015	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
21. Wairoa	6.44	27.13	1.70	1.364	1.364	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
22. Waikanae	22.41	72.41	2.19	1.185	1.185	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
23. Waipara	5.66	17.13	1.08	1.025	1.025	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
24. Westport	8.37	24.87	1.67	1.025	1.025	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
25. Whakatane	5.36	16.62	1.08	1.025	1.025	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
26. Whangarei	19.35	52.80	3.13	2.846	2.846	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
27. Whangarei	13.14	37.25	3.74	1.141	1.141	3.26	14.03	20.65	1.169	16.44	63.04	0.191	3.01	4.87	0.619	17.23	79.24
Totals	10.40	32.91	2.81	0.954(f)	0.954(f)	3.54(g)	10.88(k)	20.68	0.802(d)	17.34	78.35	0.039	0.85	5.04	0.687	15.18	47.60
Town Boards.																	
1. Kaponga	9.65	37.26	2.30	1.333	1.333	4.30	10.10	29.25	0.804	14.44	63.08	0.407	0.81	13.27	1.272	21.24	41.00
2. Mangaweka	13.57	35.32	3.83	1.314	1.314	3.54	9.22	34.51	1.125	34.51	90.03	0.451	12.30	9.35	1.701	46.64	54.50
3. Manunu	3.83	10.20	2.38	5.544	5.544	1.61	6.82	41.40	3.142	23.46	56.68	1.156	8.63	8.77	4.290	82.10	32.64
Totals	8.50	31.90	2.62	1.464(b)	1.464(b)	3.65(g)	12.04(c)	...	...	...	65.82(m)	...	...	...	...	...	42.48(g)

(For notes see page 32.)

TABLE XIII.—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31ST MARCH, 1941—continued.

Supply Authorities.	Capital Outlay.			Revenue from Sale of Electricity.					Working-costs.			Capital Charges.			Total Costs.		
	Per Head of Population.	Per Consumer.	Per £1 of Revenue.	Per Unit sold (Overall including Bulk Supply).	Per Unit sold (Excluding Bulk Supply).	Per Unit sold (Domestic Supply).	Per Head of Population.	Per Retail Consumer.	Per kW. of Maximum Demand.	Per kW. of Total Revenue.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Capital Outlay.	Per Unit sold.	Per kW. of Maximum Demand.	Per Cent. of Distribution Capital.	No.
OTHER LOCAL AUTHORITIES—continued.																	
1. Heathcote	5.65	18.33	1.45	0.977	0.977	0.977	3.90	14.11	11.63	52.98	0.176	2.54	12.38	0.982	14.18	69.00	1
2. Kaitiaki	13.37	38.23	3.27	6.639	6.639	7.000	4.41	44.07	11.63	82.06	0.018	17.67	12.08	6.018	58.00	115.50	2
3. Murchison	19.83	70.90	5.13	2.292	2.292	2.900	3.58	31.32	10.42	53.80	1.435	10.42	6.10	2.214	30.15	36.15	3
4. Uawa	3.90	17.72	1.36	14.582	14.582	15.935	2.04	13.00	30.35	59.62	0.006	10.61	14.15	11.910	44.92	150.12	4
5. Waimairi	5.71	19.82	2.58	0.763	0.763	0.698	2.21	13.38	10.16	75.93	0.551	2.49	7.21	0.723	12.67	36.72	5
Totals	6.36	21.95	2.42	0.911(d)	0.911(d)	..	2.65(g)	90.3(h)	..	70.61(n)	..	..	8.33(p)	..	..	45.13(q)	..
Totals, other Local Authorities	12.72	38.36	3.29	0.941(d)	0.941(d)	..	3.49(g)	9.97(k)	..	68.25(n)	..	..	4.47(p)	..	..	38.33(q)	..
COMPANIES.																	
1. Kaniere Electric, Ltd.	27.76	87.31	5.28	0.746	0.746	1.836	3.38(c)	12.07	497.73	0.606	0.606	3.31	4.95	0.809	13.60	79.05	1
2. Kaitiaki (L. Keys)	12.03	77.30	0.71	12.182	12.182	12.280	2.00	50.23	355.00	9.619	9.619	1.53	0.386	9.936	48.30	100.17	2
3. Recton Electric Light and Power Co., Ltd.	4.77	18.30	1.07	6.000	6.000	7.886	2.73	30.74	504.00	3.887	3.887	1.75	3.270	4.230	41.67	100.35	3
4. Kawene Motors, Ltd.	2.71	14.80	1.07	7.111	7.111	9.989	2.04	42.38	703.00	6.358	6.358	9.16	20.27	6.806	41.11	341.01	4
5. Wilson's (N.Z.) Portland Cement, Ltd.	157.68	402.25	4.42	0.338	0.338	2.227	15.30	57.82	300.30	0.129	0.129	0.01	2.44	0.165	2.77	56.62	5
6. Westland Power, Ltd.	20.95	217.71	14.81	1.286	1.286	1.541	1.52	14.69	76.44	1.445	1.445	15.81	5.88	2.567	30.18	32.86	6
Totals	21.50	102.80	4.64	0.564(d)	0.564(d)	..	3.63(g)	11.24(k)	..	275.41(m)	..	..	5.45(p)	..	..	54.31(q)	..
Grand totals, 1941	26.31	93.96	5.24	0.802(c)	0.802(c)	..	3.54(g)	11.74(k)	..	280.97(m)	..	..	5.55(p)	..	..	25.97(q)	..
"	25.60	92.11	6.01	0.837	0.837	..	3.35	11.19	..	..	..	..	..	..	..	26.41	..
"	25.07	91.71	6.01	0.882	0.882	..	3.12	10.68	..	..	..	..	..	..	..	22.25	..
"	23.00	91.40	6.28	1.025	1.025	..	2.69	10.28	..	..	..	..	..	..	..	..	..
"	23.42	92.20	6.81	1.071	1.071	..	2.69	9.93	..	..	..	..	..	..	..	..	..

Average Revenue per Unit (kWh.) sold for all Purposes for Year ended 31st March, 1941 : 0.902d.

NOTES.—(a) Capital outlay divided by revenue from retail plus bulk sales. (b) Derived from items 3 and 10, Table 4b. (c) Total revenue from retail sales (£5,443,690) divided by total units sold retail (1,448,310,049). (d) Derived from items 5 and 11, Table 7b. (e) Excludes revenue from dredging (see Table 7a). (f) Gross revenue, excluding bulk sales and rates. (g) Derived from items 1 and 13, Table 7b. (h) Revenue from retail sales, less revenue from large industrial and traction loads. (i) Derived from items 2 and 11, Table 7b. (j) Revenue from retail plus bulk sales. (k) Derived from items 6 and 10, Table 7b. (l) Derived from items 12 and 14, Table 7b. (m) Derived from items 7 and 15, Table 7b. (n) Derived from items 8 and 10, Table 7b. (o) Includes Arapuni, Horahora, Mangahoe, and Waikararua Power Stations. (p) Includes Lake Coleridge, Waitaki, Monowai, and Arnold River Power Stations. (q) Derived from items 9 and 15, Table 7b. (r) Not yet actively functioning. (s) License delegated to Westland Power, Ltd. (t) No return received. (u) Figures for domestic units and revenue not given separately.

TABLE XIII.A.
Large Industrial and Traction Loads.—Units sold and Revenue received
for Year ended 31st March, 1941.

Supply Authority.	Type of Load.	Units sold.	Revenue.
PUBLIC WORKS DEPARTMENT. North Island system	Gold-mining	kVh.	£(N.Z.)
	N.Z.R. Workshops, Petone (Traction, &c.)	19,574,820	16,048
South Island system	Gold-dredging	19,025,450	35,972
	N.Z.R. Workshops, Addington (Traction &c.)	4,761,998	12,450
Totals	Christchurch Tram- ways	8,862,560	16,617
	Alloy Steel (N.Z.), Ltd.	894,690	1,078
Totals		67,940,718	113,030
ELECTRIC-POWER BOARDS.	Traction	21,672,520	51,924
	Gold-dredging	7,152,074	12,923
	Traction	4,101,415	14,730
	Gold-dredging	1,213,560	2,633
	Traction	34,229,609	82,260
Totals		38,378,178	82,260
CITIES AND BOROUGHES.	Traction	4,162,493	7,508
	Traction	648,704	2,171
	Traction	889,054	1,800
	Traction	11,804,342	31,970
Totals		17,504,593	43,447
COMPANIES.	Gold-dredging	3,478,060	5,434
	Cement-manufacture	6,646,404	5,634
Totals		10,124,464	11,068
Totals for above Supply Authori- ties		129,799,404	249,805

TABLE XIII.B.
Summary of Totals from Tables IX, X, and XI.

Items	Public Works Department.	Electric-power Boards.	Other Local Authorities.					Companies.	Totals, all Supply Authorities.
			City Councils.	Borough Councils.	Town Boards.	County Councils.	Total.		
1. Population	No. 50,530	No. 974,950	No. 166,050	No. 20,100	No. 2,850	No. 9,530	No. 1,570,100		
2. Number of consumers	12,785	246,934	49,310	5,826	788	1,092	449,222		
3. Total units sold (bulk plus retail)	1,481,145,825	895,505,173	144,900,396	13,860,414	591,676,324	18,732,485	3,077,050,807		
4. Units sold retail	104,210,532	854,824,247	121,133,518	13,862,744	476,352,640	12,916,615	1,448,340,033		
5. Units sold retail, less units sold for large industrial and traction loads (see Table 3A)	36,275,814	820,594,678	120,344,464	13,862,744	468,848,056	2,792,091	1,318,610,039		
6. Route-miles of lines	4,923	20,088	1,179	197	71	160	28,180		
7. Capital outlay	£(N.Z.) 16,901,668	£(N.Z.) 16,431,132	£(N.Z.) 1,622,976	£(N.Z.) 127,892	£(N.Z.) 24,504	£(N.Z.) 204,000	£(N.Z.) 41,552,608		
8. Revenue (retail sales)	1,821,968	3,284,773	538,491	52,622	9,714	33,466	5,443,696		
9. Revenue (bulk sales)	1,402,739	3,304,198	38,057	52,641	..	10,001	2,474,202		
10. Revenue (retail plus bulk sales)	2,193,481	3,588,908	576,578	52,663	9,714	44,067	7,917,898		
11. Revenue from retail sales, less revenue from large industrial and traction loads (see Table 3A)	108,663	3,262,513	536,601	52,625	9,714	22,368	5,193,861		
12. Gross revenue (less revenue from bulk sales)	2,207,517	3,659,526	590,951	53,308	10,139	45,198	8,071,331		
13. Working-costs	3,303,719	3,355,351	552,864	53,267	10,139	34,597	5,997,129		
14. Capital charges	802,040	2,242,695	388,936	40,842	6,658	29,156	4,547,015		
15. Total costs	890,739	1,098,104	92,839	10,682	9,918	11,178	2,309,226		
16. Capital outlay on transmission and distribution systems	1,091,778	3,340,889	481,825	51,504	9,576	40,331	6,856,541		
17. Capital outlay on transmission and distribution systems	8,512,493	13,161,566	927,335	114,112	22,594	74,256	20,401,225		

TABLE XIV.—RETURN OF ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES CONNECTED TO ELECTRIC-SUPPLY SYSTEMS AS AT 31ST MARCH, 1941.

Supply Authorities.	Number of Consumers.			Ranges.			Water-heaters.			Milk-machines.		
	Domestic.	Commercial.	Total.	Under 5 Kilowatts.	5 Kilowatts and over.	Total Number.	Total Kilowatts.	Percentage of Domestic Consumers.	Number.	Percentage of Total Number of Consumers.	Number.	Horse-power.
	Number.	Number.	Number.	Number.	Number.	Number.	kW.	Per Cent.	Number.	Per Cent.	Number.	H.P.
PUBLIC WORKS DEPARTMENT.												
1. North Island system ¹	492	21	443	30	265	295	1,892	69.90	320	72.23		
2. South Island system ²	10,625	1,717	12,342	1,758	1,758	1,876	12,608	17.65	800	6.48	1,409	2,405
Totals ^{1,2}	11,047	1,738	12,785	148	2,023	2,171	14,500	19.65	1,120	8.76	1,409	2,405
POWER BOARDS.												
1. Ashburton	4,309	553	4,862	881	19,538	1,797	6,897	40.31	1,179	24.24	112	141
2. Auckland	55,113	12,322	67,435	N.A.	19,538	19,538	186,766	35.45	23,764	35.23	700	1,050
3. Banks Peninsula	1,055	63	1,118	157	403	403	2,100	38.19	325	29.06	259	147
4. Bay of Islands	1,624	316	1,940	94	247	341	1,548	20.99	450	23.19	180	220
5. Bay of Plenty	2,042	336	2,378	90	698	788	4,762	38.58	1,472	61.90	738	946
6. Buller's	1,590	250	1,840	27	368	395	2,303	24.84	870	47.28	426	520
7. Cambridge	1,813	380	2,193	122	541	663	3,973	36.56	618	28.18	144	212
8. Central Waikato	6,709	677	7,386	435 ⁶	1,328	1,763	9,962	26.27	3,375	45.69	2,030	3,082
9. Dannevirke	2,731	541	3,272	92	478	570	3,388	24.27	966	29.52	506	597
10. Franklin	4,881	500	5,381	446	1,648	2,094	10,497	42.90	3,567	66.28	2,206	2,576
11. Golden Bay	451	83	534	70	54	124	449	27.49	165	29.00	112	97
12. Grey	4,245	685	4,930	191	589	780	4,575	18.37	495	10.04	48	54
13. Hawke's Bay	8,229	904	9,133	113	2,813	2,926	24,909	35.55	3,047	33.36	365	450
14. Horowhenua	4,744	1,388	6,132	N.A.	1,638	1,638	10,554	34.52	2,100	34.24	1,344	1,444
15. Hutt Valley	13,971	2,444	16,415	204	4,533	4,737	26,832	33.90	5,252	31.99	113	141
16. King country ¹	702	81	783	63	139	202	1,031	28.77	81	10.34	4	4
17. Manawatu	5,698	245	5,943	3	1,539	1,542	10,810	27.06	2,521	42.41	1,522	2,159
18. Manawatu-Oroua	2,906	494	3,400	162	479	641	3,659	22.05	388	11.41	1,333	200
19. Marlborough	3,426	856	4,282	89	919	1,008	5,155	29.42	1,850	43.20	1,257	1,680
20. North Auckland	3,314	330	3,644	292	547	839	4,750	25.31	608	16.68	181	163
21. North Canterbury	1,167	175	1,342	44	198	242	1,392	20.73	442	32.93	412	477
22. Otago	4,023	1,045	5,068	39	470	509	3,244	12.65	388	8.87	147	223
23. Otago Central	1,340	305	1,645	65	319	384	2,028	28.65	388	23.58	92	67
24. Poverty Bay	5,010	1,311	6,321	2,050	2,050	2,050	11,936	40.91	1,862	29.45	274	246
25. Reefton ¹	4,755	668	5,423	138	805	943	6,263	19.83	658	12.13	166	171
26. South Canterbury	3,416	684	4,100	117	823	940	5,831	27.51	1,566	38.19	866	1,114
27. South Taranaki	2,700	264	2,964	238	469	737	3,860	27.29	667	22.50	262	275
28. Springs-Ellismere	2,815	285	3,100	16	617	633	4,351	22.48	1,270	41.25	1,286	2,133
29. Taranaki	1,876	311	2,187	251	576	827	4,263	44.08	810	37.03	462	554
30. Tairānua	2,304	140	2,444	115	857	972	6,198	43.18	1,775	72.62	822	1,079
31. Te Awamutu	2,235	466	2,701	283	621	904	4,432	40.44	1,420	52.57	888	1,312
32. Teviot	9,452	90	9,542	26	186	212	1,288	57.29	177	38.47	2	2
33. Thames Valley	2,580	563	3,143	77	3,054	3,131	23,096	33.12	5,778	55.46	3,426	5,806
34. Waimea	5,119	1,082	6,201	249	260	380	2,025	13.56	2,97	33.46	145	64
35. Wairarapa	521	73	594	25	1,300	1,549	9,998	30.25	2,075	9.47	666	979
36. Wairere				201	201	226	1,340	43.37	290	48.82	161	212

TABLE XIV.—RETURN OF ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES CONNECTED TO ELECTRIC-SUPPLY SYSTEMS AS AT 31ST MARCH, 1941—continued.

Supply Authorities:	Number of Consumers.				Ranges.				Water-heaters.			Milkling-machines.			
	Domestic.		Commercial.		Total.		5 Kilowatts and over.	Total Number.	Total Kilowatts.	Percentage of Domestic Consumers.	Number.	Total Kilowatts.	Percentage of Total Consumers.	Number.	Horse-power.
	Number.	Number.	Number.	Number.	Number.	Per Cent.										k.W.	Per Cent.
POWER-BOARDS—continued.															
40. Waitoa	463	84	547	51	103	154	892	33.26	202	125	36.92	248	178		
41. Waitaki	4,384	619	4,953	174	1,354	1,528	9,984	35.25	1,555	1,749	31.39	61	65		
42. Waitemata	15,213	1,103	16,316	61	5,098	5,098	30,910	33.51	4,051	3,595	28.50	1,796	1,159		
43. Waitomo	1,501	418	1,919	80	734	814	5,052	54.23	901	729	46.95	351	470		
44. Wanganui-Rangitikei	9,852	2,245	12,097	N.A.	2,184	2,184	14,040	22.16	2,856	2,050	23.60	1,120	1,255		
45. Westlands															
Totals	210,599	36,335	246,934	5,645	61,471	67,116	427,352	31.86	83,182	66,817	33.68	26,033	33,424		
OTHER LOCAL AUTHORITIES.															
City Councils.															
1. Christchurch	28,898	5,393	34,291	642	13,589	14,231	96,260	49.24	10,623	10,335	30.97	38	46		
2. Dunedin	24,219	7,299	31,518	844	2,694	3,538	19,342	14.60	5,885	6,382	18.67	190	286		
3. Invercargill	5,945	1,097	7,042	126	120	246	896	4.13	240	260	3.40	3	6		
4. Nelson	2,733	910	3,643	136	1,465	1,601	9,090	28.49	2,503	1,988	35.66	3	6		
5. Palmerston North	5,619	1,400	7,019	382	3,571	3,953	25,654	13.08	7,519	9,653	18.20	17	14		
6. Wellington	30,215	10,879	41,094	2,130	21,439	23,569	151,242	24.14	26,770	28,618	21.48	248	352		
Totals	97,639	26,978	124,607	6	7	13	53	2.66	8	11	1.34	1	1		
Borough Councils.															
1. Bluff	488	108	596	50	490	540	3,370	12.60	1,004	680	17.57	1	1		
2. Hamilton	4,285	1,420	5,714	5	53	58	388	15.34	61	48	13.55	2	3		
3. Inglewood	378	72	450	70	80	150	739	31.64	57	58	10.51	2	1		
4. Kaipoi	474	68	542	8	177	185	1,221	20.60	112	98	10.86	4	5		
5. Lyttelton	898	133	1,031	45	668	713	4,165	18.31	1,250	868	25.03	4	5		
6. Napier	3,894	1,090	4,984	352	1,983	2,335	11,037	36.50	2,370	1,618	31.57	793	1,191		
7. New Plymouth	6,396	1,109	7,505	31	17	48	155	10.43	35	31	5.90	9	10		
8. Ohakune	460	133	593	38	105	143	803	38.13	126	86	25.25	24	23		
9. Patea	375	124	499	2	1	3	14	0.82	3	3	1.02	57	55		
10. Picton	366	86	452	2	12	15	70	6.81	72	58	14.06	57	55		
11. Queenstown	220	72	292	21	22	43	216	10.88	171	190	20.93	57	55		
12. Ruetli	705	117	822	5	133	138	916	19.57	792	641	41.57	24	23		
13. Rangiora	705	112	817	45	772	817	5,354	46.49	785	731	23.57	218	294		
14. Riccarton	1,757	148	1,905	151	428	579	3,128	22.35	285	262	23.02	3	4		
15. Ross	2,590	740	3,330	9	293	302	1,746	31.29	207	184	17.26	3	4		
16. Stratford	965	273	1,238	80	207	287	1,681	24.42	207	184	17.26	3	4		
17. Sumner	1,175	24	1,199	13	61	74	485	14.91	63	61	9.25	3	3		
18. Tairāpapa	496	185	681	40	99	139	715	14.55	111	74	9.09	51	47		
19. Tairāpapa	955	265	1,220	160	175	335	6,232	72.79	878	462	58.06	7	15		
20. Tauranga	1,202	310	1,512	16	135	151	1,288	32.37	214	160	25.84	13	13		
21. Te Aroha	590	238	828	26	89	115	657	44.40	210	180	29.44	7	15		
22. Te Puke	259	135	394	45	184	229	1,321	22.80	954	1,387	17.84	2	1		
23. Thames	1,004	285	1,289	1,050	5,347	986	6,205	22.94	986	1,387	17.84	2	1		
24. Timaru	4,297	1,050	5,347												

(For notes, see page 36.)

TABLE XIV.—RETURN OF ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES CONNECTED TO ELECTRIC-SUPPLY SYSTEMS AS AT 31ST MARCH, 1941—continued.

Supply Authorities.	Number of Consumers.			Ranges.				Water-heaters.			Milk-machines.		
	Domestic.	Commercial.	Total.	Under 5 Kilowatts.	5 Kilowatts and over.	Total Number.	Total Kilowatts.	Percentage of Number of Domestic Consumers.	Number.	Total Kilowatts.	Percentage of Total Number of Consumers.	Number.	H.P.
OTHER LOCAL AUTHORITIES—continued.													
<i>Borough Councils—continued.</i>													
26. Waikato	623	246	869	16	270	286	1,915	45.90	318	192	36.59	3	2
27. Waikato	514	154	668	27	109	196	788	26.45	131	98	19.61	5	6
28. Westport	1,121	299	1,420	2	18	20	130	1.78	33	28	2.32	3	3
29. Whakatane	1,566	176	1,742	27	227	254	1,643	45.68	247	161	33.74	7	9
30. Whangarei	1,901	721	2,622	35	455	490	3,152	24.98	400	267	14.91	15	25
Totals	39,399	9,911	49,310	1,328	8,836	10,164	59,557	25.79	11,013	8,654	22.33	1,223	1,715
<i>Town Boards.</i>													
1. Kaponga	367	73	440	16	60	76	452	20.70	138	99	31.36	160	242
2. Mangaweka	112	34	146	7	36	43	211	38.39	35	18	23.97	13	10
3. Manunui	159	23	182	..	..	..	..	..	..	..	..	5	4
Totals	638	130	768	23	96	119	663	18.65	173	117	22.52	295	256
<i>County Councils.</i>													
1. Heathcote	1,045	4	1,049	102	510	612	3,179	58.56	462	435	44.04	7	4
2. Kaikoura	179	66	245	..	..	..	..	..	..	..	..	..	..
3. Murchison	169	21	190	15	12	27	92	15.97	30	22	15.79	25	29
4. Otago	90	20	110	..	..	..	..	..	..	..	..	..	..
5. Waimea	3,947	285	4,232	114	1,437	1,551	9,476	39.29	1,323	1,192	31.26	58	47
Totals	5,430	396	5,826	231	1,959	2,190	12,747	40.33	1,815	1,649	31.15	90	80
<i>Totals, other Local Authorities</i>													
.. .. .	143,096	37,415	180,511	3,712	32,330	36,042	224,209	25.18	39,771	39,038	22.03	1,856	2,403
COMPANIES.													
1. Kanieri Electric Ltd.	653	247	900	26	106	132	817	20.21	63	60	7.00	..	..
2. Kohukohu (L. Keys)	46	21	67	2	..	2	4	4.34	2	1	2.98	..	..
3. Reefton Electric Light and Power Co., Ltd.	301	88	389	..	..	..	..	..	2	3	0.51	..	..
4. Rawene Motors, Ltd.	35	20	55	..	..	..	..	..	..	..	..	..	..
5. Wilson's (N.Z.) Portland Cement, Ltd.	165	41	206	11	7	18	71	11.61	15	12	7.65	25	42
6. Westland Power, Ltd.	311	74	385	16	25	41	217	13.18	38	50	9.87	43	64
Totals	1,501	491	1,992	55	138	193	1,109	12.85	120	126	6.02	67	106
Grand totals	366,243	75,970	442,222	9,560	95,962	105,522	607,170	28.81	124,193	107,417	28.08	29,365	38,338

NOTES.—¹ Includes Arnprior, Horahora, Waikaremano, and Mangatapu Power-stations inter-connected. ² Board constituted 15th May, 1940; not yet actively functioning. ³ License delegated to Westland Power, Ltd. ⁴ Includes Lake Coleridge, Waitaki, Monowai, and Arnold River Power-stations inter-connected. ⁵ No return received. ⁶ Includes 36 heat-storage ranges. ⁷ Includes 787 heat-storage ranges. ⁸ Not actively functioning. ⁹ Includes 146 heat-storage ranges.

NEW ZEALAND.

EXTRACT FROM THE
PUBLIC WORKS STATEMENT,
AND
REPORT OF CHIEF ELECTRICAL ENGINEER,
1940.

(Together with additional Statistical Tables relating to all Electric Supply Authorities.)

HYDRO-ELECTRIC DEVELOPMENT.



WELLINGTON.
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