

ANNUAL STATISTICS IN RELATION TO HYDRO-ELECTRIC DEVELOPMENT AND OPERATION

YEAR ENDED 31st MARCH, 1949

GENERAL MANAGER'S REPORT

For full text of the above report, refer to State Hydro-electric Statement, 1949, Appendix A, pages 5 to 32 inclusive.

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, 1948-49.

		1949	1948	Increase or Decrease
(a) Installed generating-capacity (main stations)	kW	586,676	509,246	+ 77,430
(b) Installed generating-capacity (standby)	kW	88,150	93,625	- 5,475
(c) Total connected load (excluding bulk supply)	kW	4,183,998	3,781,337	+ 402,661
(d) Consumers	No.	533,354	511,699	+ 21,665
(e) Units sold per head of total population	No.	1,216	1,110	+ 116
(f) Units sold per consumer	No.	4,271	3,978	+ 293
(g) Route-miles of main, distribution and service lines	R.M.	38,314	34,044	+ 4,270
(h) Consumers per route-mile of line (including service lines)	No.	13.92	15.03	- 1.11
(i) Sales (retail) per route-mile of line (including service lines)	Units	59,455	59,796	- 341
(j) Miles of conductor in service (including service lines)	Miles	*150,593	*145,993	+ 4,600
(k) Broken poles reported	No.	278	260	+ 18
(l) Broken wires reported	No.	4,365	3,759	+ 606
(m) Electrical fires reported	No.	35	35	-
(n) Electrical accidents reported	No.	58 (15 fatal)	57 (15 fatal)	+ 1
(o) Electric-ranges installed	No.	200,692	180,936	+ 19,756
(p) Electric water-heaters installed	No.	234,309	212,482	+ 21,827
(q) Electric milking-machines installed	No.	37,079	35,687	+ 1,392

*No returns received from Christchurch City Council and Auckland Electric Power Board.

B.—Summarized Results of Operations for the Year ended 31st March, 1949.

Item		Water	Steam	Gas	Oil	Total
1 Number of main stations	No.	22			3	25
2 Installed capacity (main plant)	kW	586,339			337	586,676
3 Number of standby plants	No.	19	6	2	19	46
4 Installed capacity (standby plant)	kW	8,414	60,662	891	18,183	88,150
5 Units generated	No.	2,712,011,655	122,584,859	4,270	9,804,381	2,844,405,165
6 Units sold to consumers						2,277,957,284
7 Percentage of non-productive units						19.91%
8 Number of consumers						533,354
9 Connected load (excluding bulk supply)						4,183,998
10 Total operative capital (including distribution systems and standby plant)						74,439,823
11 Total capital per kilowatt installed (including distribution systems, &c)						£110.31
12 Annual working-costs (excluding cost of power purchased in bulk)						£3,604,185
13 Annual working-cost per unit under item 6						0.380d.
14 Annual capital cost (interest, sinking fund, and depreciation, etc)						£3,642,223
15 Annual capital cost per unit under item 6						0.384d.
16 Annual capital cost as a percentage of capital						4.89%
17 Total annual costs (item 12 plus item 14)						£7,246,408
18 Total annual cost per unit under item 6						0.763d.
19 Total annual revenue (from retail sale of electricity)						£7,873,702
20 Average revenue per unit (from items 19 and 6)						0.830d.
21 Gross revenue (excluding rates and bulk sales)						£8,532,620
22 Net profit (item 21 less item 17)						£1,286,212
23 Ratio of working-costs to gross revenue (item 12 and item 21)						42.24%

Tables

For reasons of economy in paper, the usual number of tables is not being published for the year ended 31st March, 1949, 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.—Government System : Capital Outlay and Results of Operation.	Table XI.—Financial Results of Operation, &c.
Table II.—Government System : Analysis of Capital Outlay.	Table XIII.—Averages derived from Tables IX, X, and XI.
Table III.—Government System : Working-costs.	Table XIV.—Populations, Consumers, Ranges, Water-heaters and Milking-machines.
Table IX.—Generating Plants, Voltages, Route-miles of Lines, &c.	Table XVII.—Electric Wiremen's Registration
Table X.—Results of Generation, Distribution,	

1949

TABLE I.—SUMMARY OF FINANCIAL AND OPERATING STATISTICS FOR GOVERNMENT ELECTRIC-POWER SYSTEMS FOR THE YEAR ENDED 31ST MARCH, 1949.

NOTE.—“North Island” includes Arapuni, Karapiro, Mangahao, and Waikaremoana main stations and King’s Valley and Penrose standby stations, all interconnected. “South Island” includes Coleridge, Waitaki, Monowai, Arnold (Kaikōura), and Highbank main stations and Dobson standby station, all interconnected; also Cobb main station and Stoke station, not interconnected.

A.—Financial.

Capital outlay—				
Assets in operation	£	£	Net profit for year	£
Assets not in operation	33,005,827	44,488,020		5,482,193
	11,482,193			
Total capital invested—including stocks of material, plant, motor vehicles and tools		46,329,459	Allocation of profits—	
Revenue for year		3,661,405	Taxation	17,000
Working costs		1,709,374	Loan redemption fund	38,000
Capital charges—			General reserve	1,000
Interest		1,101,848	Total	54,000
Depreciation		306,402		
Total		1,408,250	Balances at end of year—	
Total costs for year		3,117,624	Depreciation reserve	4,400
			Loan redemption fund	3,800
			General reserve	1,000

B.—Operating Results.

		1948-49		19
Maximum load (kilowatts)—			Revenue—	
North Island		396,200	Per kW	£
South Island		156,996	Per unit output	
Total maximum load		*553,196	Per unit distributed	
Average load (kilowatts)—			Per unit sold	
North Island		213,299		
South Island		93,626	Working costs—	
Average load factor—		per cent	Per kW	£
North Island		53.84	Per unit output	
South Island		59.64	Per unit distributed	
Units output (generated and purchased)—			Per unit sold	
North Island		1,868,495,102		
South Island		820,166,968	Capital charges—	
Total		2,688,662,070	(Excluding taxation and sinking fund)—	
Units distributed—			Per kW	£
Units sold—			Per unit output	
North Island		1,680,578,672	Per unit distributed	
South Island		721,486,145	Per unit sold	
Total		2,402,064,817	Total costs—	
Units unsold (used free of charge)—			(Excluding taxation and sinking fund)—	
North Island		12,282,165	Per kW	£
South Island		6,440,985	Per unit output	
Total		18,723,150	Per unit distributed	
Total units distributed—			Per unit sold	
North Island		1,692,860,837		
South Island		727,927,130		
Grand total		2,420,787,967		
Line Losses—				
Transmission and distribution—	Units	Per cent.		
North Island	175,634,265	9.399		
South Island	92,239,838	11.25		
	267,874,103	9.96		

*Sum of North and South Island maximum loads—not simultaneous maximum demand.

North Island		South Island		Combined Totals
	£		£	£
Hydro-electric stations—		Hydro-electric stations—		
Land, fencing and roading—		Land, fencing and roading—		
Arapuni	118,390	Cobb River	60,533	
Karapiro	365,612	Lake Coleridge	25,841	
Maraetai	331,276	Waitaki	48,441	
Whakamaru	25,211	Lake Tekapo	14,954	
Waikaremoana (Tuai)	18,583	Arnold	1,830	
" (Piripaua)	40,899	Highbank	14,907	
" (Kaitawa)	25,874	Monowai	12,226	
Mangahao	74,707	Roxburgh	103,553	
	1,000,552		282,285	1,282,837
Headworks—		Headworks—		
Arapuni	1,425,143	Cobb River	903,711	
Karapiro	2,201,963	Lake Coleridge	558,969	
Lake Taupo Control	195,091	Waitaki	1,095,212	
Maraetai	1,913,234	Lake Tekapo	793,714	
Whakamaru	133,427	Lake Pukaki Control	1,101,716	
Waikaremoana (Tuai)	201,065	Arnold	108,153	
" (Piripaua)	696,648	Highbank	232,198	
" (Kaitawa)	1,145,928	Monowai	86,660	
Mangahao	947,031	Roxburgh	104,649	
	8,859,580		4,984,982	13,844,562
Station buildings and village—		Station buildings and village—		
Arapuni	497,940	Cobb River	80,640	
Karapiro	583,777	Lake Coleridge	104,479	
Maraetai	1,056,548	Waitaki	471,038	
Waikaremoana (Tuai)	294,933	Lake Tekapo	573,783	
" (Piripaua)	97,167	Arnold	10,767	
" (Kaitawa)	296,264	Highbank	93,976	
Mangahao	132,350	Monowai	48,761	
	2,958,979		1,383,444	4,342,423
Generating plant and machinery—		Generating plant and machinery—		
Arapuni	1,055,162	Cobb River	83,308	
Karapiro	934,783	Lake Coleridge	260,414	
Maraetai	1,264,665	Waitaki	563,193	
Waikaremoana (Tuai)	477,618	Tekapo	161,620	
" (Piripaua)	223,255	Arnold	26,913	
" (Kaitawa)	298,592	Highbank	172,687	
Mangahao	218,887	Monowai	60,051	
	4,472,962		1,328,186	5,801,148
Fuel stations—		Fuel stations—		
King's Wharf	356,438	Stoke	24,465	
Penrose	66,522	Dobson	169,851	
	422,960		194,316	617,276
Transmission and distribution—		Transmission and distribution—		
Primary distribution		Primary distribution—		
11kV lines	69,525	11kV lines	701,881	
33kV lines	76	33kV lines	64,189	
50kV lines	546,746	50kV lines	—	
66kV lines	—	66kV lines	837,040	
110kV lines	3,203,510	110kV lines	493,171	
220kV lines	984,084	220kV lines	808	
Secondary distribution	—	Secondary distribution	397,056	
	4,803,941		2,494,145	7,298,086
Substations—		Substations—		
11kV	16,822	11kV	8,085	
33kV	—	33kV	54,915	
50kV	808,174	50kV	—	
66kV	—	66kV	850,262	
110kV	2,674,991	110kV	460,431	
220kV	1,590,932	220kV	1,411	
	5,090,919		1,375,104	6,466,023
Communications	339,868	Communications	171,188	511,056
General—		General—		
Offices, stores, land and buildings	272,284	Offices, stores, land and buildings	54,911	
Surveys and investigations of other schemes	136,891	Surveys and investigations of other schemes	72,221	
Cost of raising loans	332,373	Cost of raising loans	543,536	
Interest capitalised during construction	2,084,536	Interest capitalised during construction	827,857	
	2,826,084		1,498,525	4,324,609
	£30,775,845		£13,712,175	£44,488,020

TABLE III.—GOVERNMENT OPERATING OR WORKING COSTS FOR THE YEAR ENDED 31st MARCH, 1949.

	Cost	Cost per unit		
		Generated	Distributed	Sold
	£	d.	d.	d.
(a) Hydro-electric stations	232,336	0.0222	—	—
(b) Fuel stations	200,063	1.1226	—	—
(c) Auxiliary stations, power purchased and standby provision	498,940	0.8903	—	—
Generated and purchased	931,339	0.0831	0.0923	0.0931
(d) Transmission	95,124	0.0085	0.0094	0.0095
(e) Communications	24,338	0.0022	0.0024	0.0024
(f) Substations	149,395	0.0133	0.0148	0.0149
(g) Distribution	48,282	0.0043	0.0048	0.0048
(h) System operation	66,615	0.0059	0.0066	0.0066
(i) Administration costs and expenses	394,281	0.0352	0.0391	0.0394
	1,709,374	0.1525	0.1694	0.1707

Units generated—

North Island South Island Total

FOR THE YEAR ENDED 31ST MARCH, 1949.

TABLE IX. STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, AND DISTRIBUTION LINES.

Supply Authorities	Source of Supply	Year when Supply commenced	Capacity of Generating Plant						Static Head, in Feet	Generation	Voltage			Distribution Transformers		Route Miles of Lines	No.			
			Water	Steam	Oil	Main Plant		Standby Plant			Total Capacity	Transmission	Primary Distribution	Secondary Distribution	Number			kVA.		
						kW.	kVA.	kW.											kVA.	kVA.	kVA.
STATE HYDRO-ELECTRIC DEPARTMENT																				
North Island 1	G.N.	1921	154,200	...	...	177,000	...	...	488,889	...	...	175	{ 11,000 } { 6,600 }	110,000	{ 11,000 } { 3,300 }	400/230 A.C.	104	10,009	2,031
Arapuni	90,000	100,000	100	50,000
Karapiro	19,200	24,000	890	{ 876 } { 443 }
Mangahao	124,000	144,000
Waikaremoana
King's Wharf	31,050	...	3,750	38,000	...	4,680
Penrose
South Island 2	G.S.	1915	...	...	3,750	...	...	...	185,760	...	...	...	{ 11,000 } { 6,600 } { 3,300 }	110,000 66,000 33,000	11,000 3,300	400/230 A.C.	2,320	37,255	3,992
Arnold	8,060	3,000	42
Cochrage	84,500	40,640	490
Cobb	12,000	15,000	1,876
Higbank	25,200	28,000	330
Monowai	9,000	6,000	154
Waikato	75,000	...	5,700	83,333	...	7,900	70
Dobson	750
Stoick
Totals	...	...	543,100	31,050	10,200	623,223	543,100	51,420	584,470	674,649	...	...	...	...	...	...	2,450	53,804	0,023
POWER BOARDS																				
Ashburton	G.S.	1923
Auckland	G.N.	1908
Banks Peninsula	G.S.	1921	72	...	...	...	...	90	72	00	310	...	3,300	33,000	11,000	400/230 A.C.	1,151	15,365	1,131
Bay of Islands	G.N.	1939	110	...	...	...	...	329	207	329	134	...	400	...	11,000	400/230 D.C. 400/230 A.C.	1,293	138,778	1,412
Bay of Plenty	G.N.	1928	...	187	...	...	...	...	...	...	...	...	...	...	3,300	400/230 A.C.	220	2,395	258
Buller	G.N.	1928	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	988	10,484	1,229
Cambridge	G.N.	1921	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	435	7,082	351
Central Hawkes Bay	G.N.	1925	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	160	4,994	230
Central Waikato	G.N.	1921	...	...	...	...	...	...	...	...	...	...	...	...	11,000	415/230 A.C.	488	6,495	625
Dannevirke	G.N.	1925	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	602	19,857	1,008
Franklin	G.N.	1925	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	372	4,973	406
Golden Bay	G.S.	1929	200	...	...	...	...	250	200	250	330	...	400	...	11,000	400/240 A.C. 400/230 A.C.	572	13,498	862
Grey	G.S.	1926	100	...	120	...	...	250 D.C.	220	250 D.C.	30	...	240 D.C.	...	11,000	400/230 A.C.	111	1,650	129
Hawkes Bay	G.N.	1927	...	...	...	...	...	...	...	...	...	...	...	...	11,000	240 D.C. 400/230 A.C.	210	14,831	208
Horowhenua	G.N.	1924	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	396	21,575	609
Hutt Valley	G.N.	1924	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	288	16,742	869
King Country	G.N.	1946	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	416	45,821	705
Malvern	G.S.	1925	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	144	2,079	150
Manawatu-Oroua	G.N.	1924	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	231	1,874	204
Marlborough	G.S.	1927	1,000	...	1,330	...	...	2,012	2,330	2,012	100	...	6,000	33,000	11,000	400/230 A.C.	630	10,022	736
North Auckland	G.N.	1930	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	293	6,133	350
North Canterbury	G.S.	1928	...	...	...	...	...	...	...	...	...	...	...	...	11,000	415/240 A.C.	1,221	18,878	1,114
Opanake	G.N.	1923	315	...	148	...	...	635	463	635	47	...	6,000	11,000	415/240 A.C.	707	8,819	984	
Otago	G.S.	1920	...	...	...	...	...	...	...	...	...	...	...	...	11,000	400/230 A.C.	167	2,060	213

TABLE IX.—STATISTICS OF GENERATING-PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, &c., FOR THE YEAR ENDED 31st MARCH, 1926.—continued.

Supply Authorities	Source of Supply, when commenced	Capacity of Generating Plant						Static Head, in Feet	Voltage				Distribution Transformers		No. of Lines		
		Water	Steam	Oil	Main Plant		Standby Plant		Total Capacity	Generation	Transmission	Primary Distribution		Secondary Distribution		Number	kVA.
					kW.	kVA.						kW.	kVA.					kV.A.	kVA.
POWER BOARDS—Continued																	
Waverley Bay	G.N.	1912				380											480
with Canterbury	G.S.	1924															1,182
with Tararua	G.N.	1929	556			486											382
Wairarapa	G.S.	1922															426
Wairarapa	G.N.	1927	4,800														498
Wairarapa	G.N.	1925															424
Wairarapa	G.N.	1926															762
Wairarapa	G.N.	1921															425
Wairarapa	I.	1924	750														77
Wairarapa	G.N.	1921															308
Wairarapa	G.S.	1923															303
Wairarapa	G.N.	1923															684
Wairarapa	I.	1925	624			200											243
Wairarapa	G.N.	1923															185
Wairarapa	G.S.	1926	120			190											601
Wairarapa	G.N.	1926															1,783
Wairarapa	G.N.	1926															286
Wairarapa	G.N.	1924															1,067
Totals			12,934			4,189	187		17,310	21,045					20,474	602,620	27,101
CITY COUNCILS																	
Christchurch	G.S.	1903															1,761
Dunedin	I. & G.S.	1907	24,400			860			26,275	32,840							665
Hamilton	G.S.	1913							1,300	1,585							109
Invercargill	G.S.	1914							1,300	1,585							90
Nelson	B.	1923							1,250	1,561							60
New Plymouth	G.N.	1906	3,750						3,750	4,500							388
Palmerston North	B.	1924							2,810	3,520							102
Timaru	B.	1908							25,000	31,000							74
Wellington	G.N.	1888							25,000	31,000							698
Totals			28,150	29,425	3,678	3,678		61,251	75,866	96,241	241 D.C.	279		2,369	282,561	4,019	
BOROUGH COUNCILS																	
Bluff	G.S.	1903															12
Invercargill	B.	1905															13
Kaipara	B.	1917															16
Lytelton	G.S.	1913															17
Naper	G.N.	1913															118
Ohakame	G.N.	1914	96						208	261							27
Patea	B.	1901	88						88	110							28
Piton	I.	1917	10						96	145	145 D.C.	241					11

For notes, see page 6.

TABLE IX.—STATISTICS OF GENERATING-PLANT, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, &C., FOR THE YEAR ENDED 31ST MARCH, 1949—continued.

Supply Authorities	Source of Supply	Year when commenced	Capacity of Generating Plant			Voltage			Static Head, in Feet	Generation	Transmission	Primary Distribution		Secondary Distribution	Distribution Transformers		Route Miles of Lines	
			Water	Steam	Oil	Main Plant	Standby Plant	Total Capacity				kW.	kVA.		kVA.	kVA.		Number	kVA.
BOROUGH COUNCILS—Continued Raetihi Rangiora Riccarton Ross 7 Rotorua Electric Supply Stratford Tahape Taumarunui Tauranga Te Aroha Thames Waioira Waitara Westport Whakatane Whangarei	I. B. G.S. G.N. B. B. G.N. I. & G.N. B. B. B. B. B.	1917 1919 1916 1901 1898 1913 1924 1915 1906 1914 1913 1917 1925 1922 1915	kW.	kW.	kW.	kVA.	kVA.	kVA.	kW.	kVA.	kW.	kVA.	kVA.	kVA.	kVA.	kVA.	98 14 10 26 11 12 13 14 15 16 17	
			376	280	52	350	120	470	380	6,600	6,600	400/230 A.C.	18	451	98	
			65	65	400	400/230 A.C.	8	625	14	
			400/230 A.C.	36	4,900	26	
			400/230 A.C.	247	7,387	12	
			400/230 A.C.	23	2,452	13	
			415/230 A.C.	3	100	14	
			460/230 D.C.	3	100	15	
			400/230 A.C.	40	3,252	16	
			415/230 A.C.	21	2,825	17	
...	...	...	...	...	...	...	...	...	...	...	400/230 A.C.	14	1,120	18		
...	...	...	...	...	...	...	...	...	...	...	400/230 A.C.	16	1,849	19		
...	...	...	...	...	...	...	...	...	...	...	415/230 A.C.	17	1,380	20		
...	...	...	...	...	...	...	...	...	...	...	400/230 A.C.	12	675	21		
...	...	...	...	...	...	...	...	...	...	...	400/230 A.C.	36	2,688	22		
...	...	...	...	...	...	...	...	...	...	...	400/230 A.C.	14	1,780	23		
...	...	...	...	...	...	...	...	...	...	...	400/230 A.C.	65	6,730	24		
Totals ...	...	...	5,024	4,065	804	5,045	2,105	7,210	5,888	...	...	...	708	49,702	903	
TOWN BOARDS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kaponga	B.	1910	...	...	...	...	...	...	...	...	...	...	...	...	...	50
Maungaweka	B.	1913	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Totals ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	62
COUNTY COUNCILS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Heathcote	G.S.	1914	...	...	...	...	...	...	...	...	...	...	...	...	...	19
Kaikoura	I.	1922	...	...	...	...	...	...	...	...	...	...	...	...	...	9
Murchison	I.	1922	80	80	80	96	100	196	160	196	80	105	3,300	3,300	225	17		
Uawa	I.	1925	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Totals ...	...	...	80	272	272	348	100	448	352	...	...	...	...	...	...	49
COMPANIES	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kanieri Electric Ltd.	I.	1921	1,500	1,500	150	1,950	187	2,137	1,710	2,137	150	187	11,000	400/230 A.C.	7	1,775	30	
Wilson's (N.Z.) Portland Cement	I. & G.N.	1916	3,000	3,000	...	3,750	...	3,750	3,000	3,750	...	...	...	...	...	38
Westland Power Ltd.	I. & G.S.	1928	845	845	...	929	...	929	845	929	...	...	...	...	...	89
Totals ...	...	...	5,405	5,405	150	6,029	187	6,810	5,555	6,810	150	187	...	...	...	157
GRAND TOTALS	594,753	60,662	19,411	660,676	676,933	676,933	674,820	786,034	86,150	109,101	26,395	996,526	38,314

NOTES.—(1) Includes Arapuni, Karapiro, Mangahao and Waikaremoana main stations and King's Wharf and Fenrose standby stations all interconnected. (2) Includes Coleridge, Waitaki, Arnold, Highbank and Morowai main stations and Waikaremoana standby station all interconnected. (3) G.N.—Government supply North Island; G.S.—Government supply South Island.

TABLE X.—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31ST MARCH, 1949—continued.

Authorities	Connected Load		Maximum Load on System	Demand Factor	Annual Load Factor	Generated			Net generated	Purchased	Net generated and purchased	Sold		Percentage Non-Productive ⁶	Units sold (average)			Per Head of Population	Per Consumer (excluding Bulk Supply)	Per Cent of Distribution ⁷	Per Route-mile of line ⁵	Average Demand per Retail Consumer	No.										
	Includ- ing Bulk Supply	Exclud- ing Bulk Supply				Water	Steam	Oil				Feed Back	kWh.		kWh.	kWh.	kWh.							kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.
UNCLIS—	kW.	kW.	%	%	%	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	%	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.											
Electric Ltd., 3	4,064	4,064	9.0153,13	9.0153,13	9.0153,13	...	...	...	1,703,556	1,703,556	1,426,836	1,426,836	16.24	276,720	86	2,074	86	119,045	2,074	86	119,045	0.562	1							
...	5,158	5,158	10.1050,00	10.1050,00	10.1050,00	...	...	...	1,314,250	1,314,250	1,235,372	1,235,372	14.30	187,878	110	3,043	110	85,819	3,043	110	85,819	0.492	2							
...	8,275	8,275	8.1149,38	8.1149,38	8.1149,38	...	...	...	2,223,800	2,223,800	1,971,723	1,971,723	18.32	252,077	103	2,841	103	123,232	2,841	103	123,232	0.620	3							
...	2,463	2,463	14.8804,53	14.8804,53	14.8804,53	422,104	422,104	...	2,903,200	2,903,200	1,371,183	1,371,183	23.85	532,017	114	1,777	114	141,187	1,777	114	141,187	0.616	4										
...	4,420	4,420	10.8058,34	10.8058,34	10.8058,34	472,540	472,540	...	18,050,514	18,050,514	16,079,253	16,079,253	10.92	1,971,202	129	3,130	129	136,295	3,130	129	136,295	0.622	5										
...	4,574	4,574	10.8058,34	10.8058,34	10.8058,34	37,306	37,306	...	1,464,004	1,464,004	1,115,253	1,115,253	12.78	349,751	124	1,677	124	40,852	1,677	124	40,852	0.467	6										
...	2,800	2,800	9.7559,90	9.7559,90	9.7559,90	612,000	612,000	...	2,444,748	2,444,748	2,202,106	2,202,106	7.02	242,642	58	3,610	58	77,569	3,610	58	77,569	0.810	7										
...	2,352	2,352	11.0353,01	11.0353,01	11.0353,01	...	...	...	3,243,000	3,243,000	3,081,500	3,081,500	4.35	161,500	43	3,187	43	34,595	3,187	43	34,595	0.486	8							
...	27,463	27,463	11.5352,75	11.5352,75	11.5352,75	...	...	...	11,107,690	11,107,690	10,004,020	10,004,020	9.94	1,103,670	124	4,214	124	381,106	4,214	124	381,106	0.639	9							
Electric Supply	16,082	16,082	5.0157,20	5.0157,20	5.0157,20	...	...	...	14,629,803	14,629,803	12,080,912	12,080,912	13.32	1,048,891	80	2,520	80	59,855	2,520	80	59,855	0.626	10							
...	5,732	5,732	6.9852,39	6.9852,39	6.9852,39	4,270.5	4,270.5	...	4,757,550	4,757,550	4,221,252	4,221,252	7.80	546,311	37	3,043	37	163,622	3,043	37	163,622	0.686	11										
...	20,230	20,230	12.0653,29	12.0653,29	12.0653,29	3,566,530	3,566,530	...	3,425,480	3,425,480	1,690,977	1,690,977	14.62	1,002,701	106	2,252	106	109,600	2,252	106	109,600	0.622	12										
...	17,355	17,355	17.8575,60	17.8575,60	17.8575,60	20,516,426	20,516,426	...	20,516,426	20,516,426	9,845,051	9,845,051	16.24	323,693	134	4,667	134	252,704	4,667	134	252,704	0.563	13										
...	9,988	9,988	10.3858,20	10.3858,20	10.3858,20	59,584	59,584	...	3,157,048	3,157,048	2,893,704	2,893,704	8.34	263,344	105	3,130	105	71,011	3,130	105	71,011	0.563	14										
...	8,442	8,442	14.0754,08	14.0754,08	14.0754,08	...	...	...	4,477,200	4,477,200	4,338,262	4,338,262	12.12	138,938	131	2,699	131	160,592	2,699	131	160,592	0.648	15							
...	9,117	9,117	14.1748,32	14.1748,32	14.1748,32	...	...	...	4,868,748	4,868,748	4,808,748	4,808,748	9.60	59,000	96	4,418	96	214,235	4,418	96	214,235	0.648	16							
...	7,887	7,887	5.0953,12	5.0953,12	5.0953,12	...	...	...	2,075,180	2,075,180	1,875,907	1,875,907	10.95	199,273	96	2,134	96	123,010	2,134	96	123,010	0.507	17							
...	10,438	10,438	6.13	6.13	6.13	1,219,224	1,219,224	...	1,514,578	1,514,578	2,434,562	2,434,562	10.95	299,252	105	3,340	105	42,000	3,340	105	42,000	0.418	18										
...	9,437	9,437	9.0950,36	9.0950,36	9.0950,36	...	...	...	3,758,283	3,758,283	3,346,982	3,346,982	10.92	411,301	63	2,620	63	171,640	2,620	63	171,640	0.850	19							
...	28,856	28,856	8.3949,90	8.3949,90	8.3949,90	...	...	...	10,574,120	10,574,120	8,996,301	8,996,301	14.92	1,577,760	53	3,620	53	126,323	3,620	53	126,323	0.704	20							
...	246,250	246,250	...	...	...	27,472,153	27,472,153	...	99,045,705	99,045,705	100,089,275	100,089,275	12.64	15,541,518	107	2,878	107	110,850	2,878	107	110,850	...	21							
WARDS	3,010	3,010	15.0857,31	15.0857,31	15.0857,31	...	...	...	2,279,324	2,279,324	1,959,983	1,959,983	12.60	289,341	79	4,146	79	30,800	4,146	79	30,800	0.946	22							
...	634	634	95	95	95	...	...	...	402,843	402,843	353,738	353,738	12.19	49,105	80	2,406	80	30,760	2,406	80	30,760	0.646	23							
...	3,644	3,644	...	...	...	...	...	...	2,682,167	2,682,167	2,343,721	2,343,721	12.62	3,384,46	70	3,738	70	37,802	3,738	70	37,802	...	24				
UNCLIS—	11,236	11,236	11.0848,55	11.0848,55	11.0848,55	...	...	...	5,098,900	5,098,900	5,015,112	5,015,112	12.00	83,878	256	4,709	256	260,690	4,709	256	260,690	1.258	25							
...	581	581	20.0532,94	20.0532,94	20.0532,94	346,220	346,220	...	346,220	346,220	249,540	249,540	27.02	96,680	47	1,915	47	28,519	1,915	47	28,519	0.344	26										
...	685	685	20.4442,86	20.4442,86	20.4442,86	75,400	75,400	...	525,656	525,656	495,446	495,446	17.16	30,210	61	1,010	61	25,614	1,010	61	25,614	0.614	27										
...	108	108	100	100	100	55,000	55,000	...	55,000	55,000	29,907	29,907	45.62	25,063	12	2,255	12	8,545	2,255	12	8,545	0.752	28										
...	12,010	12,010	...	...	...	450,256	450,256	...	5,698,900	5,698,900	5,730,005	5,730,005	13.52	895,861	106	3,228	106	110,939	3,228	106	110,939	...	29							
Electric Ltd., 3	4,704	4,704	30.8277,14	30.8277,14	30.8277,14	450	450	...	29,375	29,375	4,980,588	4,980,588	19.52	1,202,787	295	5,006	295	280,504	5,006	295	280,504	0.920	30										
Portland	3,303	3,303	8.7083,36	8.7083,36	8.7083,36	...	...	...	3,641,010	3,641,010	8,801,561	8,801,561	18.01	2,007,020	954	115,085	954	563,254	115,085	954	563,254	0.510	31							
Power Ltd., 3	2,361	2,361	23.7266,16	23.7266,16	23.7266,16	...	...	...	178,100	178,100	1,101,496	1,101,496	23.11	495,461	87	3,354	87	30,918	3,354	87	30,918	1.120	32							
...	36,303	36,303	...	...	...	32,203,280	32,203,280	...	4,147,085	4,147,085	15,470,832	15,470,832	10.34	3,769,217	393	9,892	393	207,994	9,892	393	207,994	...	33							
...	14,622	14,622	...	...	...	402,565	402,565	...	10,250,441	10,250,441	10,250,441	10,250,441	...	...	...	...	...	...	...	...	...	...	34
Private Plants 4	...	...	...	...	...	8,489,073	8,489,073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
TOTALS	4,483,908	4,483,908	2,711,371,645	2,711,371,645	2,711,371,645	10,448,061	10,448,061	...	2,277,987,284	2,277,987,284	2,844,405,165	2,844,405,165	10.91	2,577,987,284	1,237	4,271	1,237	123,211	4,271	1,237	123,211	...	36										
...	...	...	...	...	...	2,844,405,165	2,844,405,165	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37

(1) Includes Arapuni, Karapiro, Mangahao main stations and King's Wharf and Penrose standby stations all interconnected. (2) Includes Coleridge, Waitaki, Arnold, Highbank and Monowai main stations and Dobson standby station all interconnected; also Cobb main station and Stoke standby station not interconnected. (3) Returns for year ended 31/12/48. (4) Sandy private plants (including adjusted units of Westland Power Ltd. and Kanieri Electric Co., due to different financial periods). (5) Total units sold (bulk plus retail) divided by route-miles of lines (Route-miles now include service lines). (6) Includes units lost in transmission and distribution. (7) Total units sold retail in transmission and distribution system, including pro-rata allocation of miscellaneous capital expenditure. (8) Total units sold retail in transmission and distribution system, including pro-rata allocation of miscellaneous capital expenditure. (9) Percentage of net units generated by route-miles of lines (route-miles now include service lines). (10) Total units sold retail divided by route-miles of lines (route-miles now include service lines). (11) Percentage of net units generated by route-miles of lines. (12) Not actively functioning. (13) No return received. (14) Coleridge, Waitaki, Arnold, Highbank, Monowai and Dobson system maximum load of 144,410 kW, combined with Cobb and Stoke system maximum load of 12,586 kW. (15) G.S. Units sold per head of population 1.216

TABLE XI.—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION, FOR THE YEAR ENDED 31ST MARCH, 1949.

authorities	Capital Outlay	Lean Liability	Sales of Energy			Revenue			Working Costs			Capital Charges					Total Annual Costs	Net Results	No.		
			Retail		Bulk for Resale (excluding Feed-back)	Feedback and Accountancy Profit	Trading Account (including Rates)	Other Sources (excluding Rates)	Total	Cost of Power	Transmission and Distribution	Management and General	Total	Interest	Sinking Fund	Depreciation				Other	
			£(N.Z.)	£(N.Z.)																	£(N.Z.)
					385,753	3,222,000	52,752	3,661,405	432,389	383,754	304,281	1,709,374	1,101,848	356,401	308,402	176,232				1,940,833															3,660,257	11,148	...
1-ELECTRIC DEPT.	44,488,020	38,080,487	385,753	3,222,000	52,752	3,661,405	432,389	383,754	304,281	1,709,374	1,101,848	356,401	308,402	176,232	1,940,833	3,660,257	11,148	...			
ARDS—	585,294	411,138	97,058	...	3,239	2,119	102,426	39,874	12,314	7,804	14,954	15,140	37,747	3,996	34,000	93,882	8,544	1			
...	4,432,247	1,101,403	1,134,220	...	2,009	6,907	1,144,036	582,300	137,265	194,276	36,780	54,508	77,417	62,357	191,480	1,035,338	109,698	2			
...	1,185,275	507,178	23,508	...	474	1,503	24,773	8,794	4,009	3,254	4,016	3,483	6,613	19,086	33,632	24,975	7,785	3			
...	579,373	101,251	68,321	...	2,492	2,782	81,135	31,853	12,912	8,198	14,366	5,235	1,280	2,158	15,923	70,353	10,782	4			
...	255,801	148,700	...	...	...	...	36,021	33,055	4,365	3,530	2,886	3,231	...	...	11,935	35,056	...	5
...	135,247	66,084	35,944	...	381	417	36,021	15,228	5,786	5,089	2,106	2,100	...	...	17,715	48,370	4,814	6	
...	270,635	104,630	51,292	...	658	1,284	53,184	10,210	5,786	20,793	18,205	11,228	...	...	49,322	147,441	11,470	7	
...	466,486	176,486	1,043	...	1,943	1,774	178,911	74,804	22,562	20,793	16,119	10,971	...	...	21,140	53,003	4,800	8	
...	306,176	216,126	...	...	1,236	596	57,923	18,885	6,117	13,502	17,650	5,807	...	...	29,682	114,046	18,518	9
...	56,513	...	...	...	1,683	866	132,564	58,589	12,373	13,502	17,650	5,807	...	...	3,910	13,707	2,341	10
...	130,556	...	...	...	1,125	1,097	112,247	6,220	1,333	12,021	10,988	7,036	...	...	15,117	89,821	22,446	11
...	457,197	...	...	...	3,705	3,364	309,100	51,187	11,444	17,021	17,648	13,234	...	...	52,969	188,085	22,015	12
...	54,120	...	...	...	7,709	7,709	114,649	95,805	17,021	10,066	14,766	10,066	...	...	27,217	103,447	11,202	13
...	184,981	...	...	...	1,152	1,152	303,720	186,673	54,299	24,901	26,943	18,336	...	...	32,070	300,913	2,807	14
...	468,979	...	...	...	3,008	3,008	17,734	1,453	1,950	2,500	3,903	2,500	...	...	7,119	16,022	1,712	15
...	112,761	...	...	...	1,152	1,152	197,729	99,049	20,934	10,741	13,854	8,430	...	...	51,417	13,847	1,481	16
...	300,871	...	...	...	2,955	2,955	114,649	66,662	1,494	2,274	3,903	2,500	...	...	161,603	16,126	...	17
...	14,969	...	...	...	3,008	3,008	102,044	54,339	9,282	14,256	14,256	9,282	...	...	39,092	60,892	13,306	18
...	14,969	...	...	...	1,112	1,112	131,232	20,289	12,081	4,771	22,862	22,862	...	...	117,856	2,217	...	19
...	66,665	...	...	...	5,792	5,792	39,290	36,432	3,259	4,171	55,862	55,862	...	...	24,861	80,666	6,411	20
...	450,622	...	...	...	1,414	1,414	39,924	28,983	20,094	6,246	12,211	81,487	...	...	32,619	32,619	...	21
...	256,241	...	...	...	3,383	3,383	50,105	4,000	7,925	1,715	81,487	...	...	...	35,366	117,013	3,031	22
...	32,713	...	...	...	6,548	6,548	120,044	39,924	21,249	10,987	17,809	10,987	...	...	39,203	193,835	9,329	23
...	1,092	...	...	...	4,910	4,910	79,718	35,860	12,375	10,068	63,722	63,722	...	...	18,667	82,380	3,872	24
...	328,821	...	...	...	3,383	3,383	87,445	22,333	8,991	8,159	28,352	28,352	...	...	3,000	32,380	...	25
...	84,829	...	...	...	2,734	2,734	89,028	16,750	5,864	5,738	25,352	25,352	...	...	1,000	72,776	6,800	26
...	244,385	...	...	...	1,846	1,846	73,465	42,663	13,356	6,007	42,663	42,663	...	...	5,730	78,767	11,101	27
...	203,409	...	...	...	30	30	10,510	28,530	10,071	7,090	45,691	45,691	...	...	7,064	82,095	5,350	28
...	8,779	...	...	...	1,011	1,011	236,760	107,533	33,957	16,028	157,512	157,512	...	...	38,427	283,902	2,858	29
...	8,779	...	...	...	2,077	2,077	111,521	54,727	19,819	7,840	71,843	71,843	...	...	11,450	16,815	8,194	30
...	15,385	...	...	...	47	47	13,046	48,234	10,513	10,319	79,508	79,508	...	...	6,409	7,336	2,011	31
...	20,458	...	...	...	1,194	1,194	13,046	15,045	2,269	2,269	4,299	4,299	...	...	2,923	10,477	10,294	32
...	426	...	...	...	924	924	59,279	15,045	2,269	2,269	4,299	4,299	...	...	2,923	10,477	10,294	33
...	17,820	...	...	...	802	802	61,572	130,141	52,091	25,198	208,339	208,339	...	...	3,406	33,566	7,811	34
...	86,114	...	...	...	3,095	3,095	263,512	23,575	6,628	6,685	5,691	5,691	...	...	3,406	269,748	23,764	35
...	280,537	...	...	...	877	877	56,056	85,485	23,575	6,685	5,691	5,691	...	...	3,406	52,622	3,434	36
...	54,210	...	...	...	500	500	195,429	85,485	26,678	10,796	128,958	128,958	...	...	22,093	172,945	22,481	37
...	184,340	...	...	...	21,077	21,077	5,254,926	15,653	2,335,628	491,415	3,547,511	3,547,511	...	...	484,492	4,783,528	471,600	38
...	4,886,074	...	...	...	35,066	35,066	2,482,635	21,077	2,482,635	166,282	1,004,726	1,004,726	...	...	56,003	2,278,770	203,765	39
...	230,013	...	...	...	8,091	8,091	36,711	363,613	24,892	376,862	1,004,726	1,004,726	...	...	173,758	2,278,770	203,765	40
...	87	...	...	...	28,925	28,925	544,960	19,093	5,790	30,487	46,945	46,945	...	...	47,496	524,859	20,197	41
...	2,098	...	...	...	11,400	11,400	457,071	110,727	60,108	49,229	283,080	283,080	...	...	56,430	556,518	15,709	42
...	...	...	...	...	7,235	7,235	89,523	39,458	5,092	6,424	57,136	57,136	...	...	4,808	78,108	7,885	43
...	...	...	...	...	4,763	4,763	72,798	30,458	6,403	4,904	49,680	49,680	...	...	4,487	88,848	13,980	44
...	...	...	...	...	18,729	18,729	155,844	59,128	11,380	11,308	99,510	99,510	...	...	5,585	126,186	29,450	45
...	...	...	...	...	21,177	21,177	143,831	37,870	7,527	6,560	109,610	109,610	...	...	5,585	111,494	32,371	46
...	...	...	...	...	292,561	292,561	64,615	23,575	7,527	47,822	51,308	51,308	...	...	11,699	51,368	13,287	47
...	...	...	...	...	363,613	363,613	870,293	938,357	127,838	47,822	720,278	720,278	...	...	11,699	814,302	61,991	48
...	301,479	301,479	2,482,635	24,892	973,077	166,282	1,004,726	1,004,726	26,989	2,278,770	203,765	49			
...	2,185	2,185	2,044,069	2,185	2,185	2,185	2,185	2,185	50		

(For notes, see page 10.)

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TABLE XI.—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION AND OPERATION FOR THE YEAR ENDED 31ST MARCH, 1949—continued.

Authorities	Capital Outlay	Loan Liability	Revenue				Working Costs				Capital Charges				Net Results		No.							
			Sales of Energy		Feedback and Standby Charges	Trading Account Profit	Other Sources (excluding Rates)	Total	Cost of Power		Transmission and Distribution	Management and General	Total	Interest	Sinking Fund	Depreciation		Other	Total	Total Annual Costs	Surplus	Deficit	Amount collected by Rates to make up Deficiency	
			Retail	Bulk for Resale (excluding Feed-back)					Generated	Purchased														Feed-back	Own Use
Councils—	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)		
16,503	2,006	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	1
11,848	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	2
250	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	3
10,208	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	4
20,770	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	5
153,364	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	6
14,703	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	7
26,312	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	8
17,564	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	9
43,512	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	10
14,728	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	11
80,574	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	12
157,068	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	13
48,333	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	14
24,798	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	15
87,093	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	16
211,678	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	17
24,378	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	18
36,157	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	19
20,043	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	20
10,507	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	21
52,411	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	22
53,343	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	23
170,372	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	24
1,925,047	9,615	1,007	10,619	7,491	1,010	2,300	7,491	7,491	2,000	1,010	2,300	7,491	7,491	445	200	176	710	8,210	2,400	...	...	...	...
25,258	9,466	184	10,474	2,072	...	5,168	1,110	2,379	1,215	1,557	7,940	7,940	7,940	559	...	280	1,241	9,181	1,293	...	...	...	1
5,186	2,150	953	2,792	...	...	874	1,110	2,379	395	1,110	2,379	2,379	91	...	...	...	1,113	2,402	300	...	...	...	2
30,444	11,616	1,137	13,206	...	...	...	2,667	10,319	1,010	2,667	10,319	10,319	493	...	...	...	1,354	11,673	1,593	...	...	...	...
19,625	9,744	...	15,997	...	...	11,554	2,113	14,616	949	2,113	14,616	14,616	456	...	323	496	215	15,831	166	...	...	...	1
15,273	6,003	...	6,751	...	...	...	384	4,978	568	384	4,978	4,978	277	...	...	...	4,255	9,333	...	...	...	...	2
14,996	7,875	...	3,525	...	...	...	884	2,906	611	884	2,906	2,906	341	...	...	...	853	3,720	...	...	...	...	3
7,376	1,620	...	1,678	400	2,260	114	400	2,260	2,260	2,650	4
57,270	25,241	12	27,951	...	...	7,191	3,773	24,760	2,242	3,773	24,760	24,760	1,074	...	323	4,896	6,293	31,053	160	...	...	...	...
107,055	99,000	37	20,158	...	...	0,399	4,318	14,405	3,732	4,318	14,405	14,405	2,297	...	1,009	...	3,308	17,801	2,357	...	...	...	...
111,022	73,948	16	35,310	...	...	5,474	2,664	17,736	1,440	2,664	17,736	17,736	...	...	1,428	...	1,428	10,164	16,146	...	...	...	...
71,718	65,707	285	11,072	...	...	2,079	1,848	7,479	2,044	1,848	7,479	7,479	822	...	1,494	...	2,316	9,795	1,277	...	...	...	...
280,795	199,715	338	66,540	...	...	13,952	8,812	39,710	8,110	8,812	39,710	39,710	3,110	...	3,631	...	7,050	46,760	19,780	...	...	...	...
TOTALS	74,439,823	62,766,373	7,873,702	3,480,679	439,359	65,964	153,665	12,022,299	940,822	3,082,450	1,642,524	7,586,635	1,053,071	722,743	553,390	713,010	3,642,223	11,238,858	797,704	4,263	3,662

TABLE XIII.—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31ST MARCH, 1949.

Supply Authorities	Capital Outlay			Revenue from Sale of Electricity					Working-costs			Capital Charges			Total Costs			No.			
	Per Head of Population	£(N.Z.)	£(N.Z.)	Per £1 of Revenue	Per Unit Sold (Overall including Bulk Sales)	Per Unit Sold (excluding Bulk Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW. Maximum Demand	Per Route-mile of Line	Per Unit Sold	Per kW. Maximum Demand	Cent. of Total Revenue	Per Unit Sold	Per kW. Maximum Demand	Cent. of Capital Outlay		Per Unit Sold	Per kW. Maximum Demand	Cent. of Distribution Capital
STATE HYDRO-ELECTRIC DEPARTMENT...	20.02(x)
POWER BOARDS
Ashburton	27.38	96.33	5.52	0.871	0.871	0.709	5.24	17.47	19.60	85.83	0.538	12.07	58.38	0.306	6.88	6.37	0.842	18.06	17.54	1	
Auckland	15.84	53.98	3.91	0.686	0.686	0.423	4.09	19.51	11.05	804.98	0.538	12.07	73.76	0.118	1.87	4.32	0.636	10.00	23.36	2	
Banks Peninsula	38.97	102.53	5.90	1.209	1.209	1.106	6.36	17.38	20.62	103.00	0.533	14.51	65.93	0.421	7.70	9.33	1.284	21.91	10.34	3	
Bay of Islands	17.16	112.38	5.73	1.271	1.271	1.316	3.05	19.63	24.35	82.44	0.775	14.65	59.85	0.422	8.09	3.80	1.187	22.93	16.01	4	
Bay of Plenty	13.94	83.41	3.45	0.820	0.820	0.910	4.33	22.27	18.25	111.37	0.901	13.85	67.09	0.176	3.91	6.22	1.777	17.29	27.49	5	
Buller (s)	18.20	58.10	3.74	0.888	0.888	0.819	4.97	15.44	18.58	151.05	0.568	11.89	82.02	0.293	0.14	8.83	0.861	18.03	25.02	6	
Cambridge	25.68	109.95	4.28	1.047	1.047	0.952	5.10	19.13	21.84	182.00	0.526	13.05	57.04	0.362	7.34	6.35	0.988	20.59	17.36	7	
Central Hawkes Bay	21.71	70.95	4.32	0.874	0.874	0.952	5.10	17.82	19.53	175.01	0.535	13.07	66.02	0.244	5.46	6.47	0.829	18.53	21.07	8	
Central Waikato	24.71	84.91	4.42	1.307	1.307	1.210	4.68	16.97	20.02	147.11	0.730	14.71	55.15	0.480	9.74	9.91	1.228	24.44	17.34	9	
Dannevirke	21.24	81.05	4.69	0.837	0.837	0.793	5.25	19.77	16.45	157.87	0.540	16.61	63.64	0.190	3.73	5.55	0.739	14.35	21.31	10	
Franklin	22.57	98.73	5.60	0.970	0.970	0.911	4.36	17.04	18.00	106.72	0.697	13.36	62.80	0.254	4.88	4.00	0.952	18.26	18.71	11	
Golden Bay	15.41	47.25	2.68	0.888	0.888	0.778	5.81	17.60	17.00	372.02	0.598	11.44	66.54	0.121	2.82	5.07	0.719	13.76	30.39	12	
Grey	19.15	67.90	3.87	0.888	0.888	0.794	4.47	14.99	14.99	129.79	0.451	9.83	64.62	0.183	3.09	6.88	0.684	13.76	26.85	13	
Hawkes Bay	19.15	51.92	3.70	1.033	1.033	0.939	5.25	14.62	18.10	129.79	0.451	9.83	64.62	0.183	3.09	6.88	0.684	13.76	26.85	14	
Horowhenua	8.26	27.78	2.22	0.658	0.658	0.518	3.70	12.53	10.31	100.18	0.382	9.12	87.53	0.076	1.20	5.26	0.668	10.32	46.42	15	
Hutt Valley	19.01	175.35	12.04	1.809	1.809	2.266	1.87	14.53	26.18	100.18	0.974	15.64	59.20	0.859	12.42	9.52	1.822	27.31	24.78	16	
King Country	17.08	81.71	3.33	1.711	1.711	1.534	3.30	16.32	28.80	71.58	0.998	16.03	55.00	0.175	3.82	3.94	1.822	27.31	8.57	17	
Manawatu-Oroua	28.10	103.00	3.36	0.697	0.697	1.021	5.70	20.89	14.55	267.87	0.440	10.93	55.06	0.635	10.08	6.96	0.859	13.41	17.80	18	
Marlborough	25.73	96.65	6.41	1.528	1.528	1.261	4.07	15.08	23.59	190.30	0.776	12.99	50.76	0.550	9.90	6.10	1.320	22.20	20.17	19	
North Auckland	23.80	98.72	5.22	0.949	0.949	0.903	4.78	18.93	18.74	112.60	0.589	11.64	59.30	0.302	5.90	5.02	0.801	17.60	18.01	20	
North Canterbury	23.59	75.00	4.30	0.952	0.952	1.172	4.88	15.17	18.42	182.60	0.654	12.69	67.34	0.291	5.04	6.97	0.945	18.25	22.61	21	
Opunake	27.66	108.57	5.01	1.064	1.064	1.113	5.64	21.65	18.97	153.69	0.706	12.59	58.28	0.317	5.06	5.95	1.023	18.25	24.83	22	
Otago	34.87	115.05	5.45	1.566	1.566	1.883	3.42	13.29	20.30	90.88	0.997	16.68	62.03	0.487	8.18	5.71	1.474	24.70	17.27	23	
Otago Central	16.12	71.79	5.01	0.696	0.696	0.692	5.99	19.44	16.83	78.10	0.319	7.72	45.15	0.197	4.75	4.77	1.516	12.47	16.71	24	
Poverty Bay	17.47	79.77	3.82	0.791	0.791	1.077	3.20	14.32	19.57	233.23	0.723	13.14	68.01	0.340	6.19	6.31	1.063	19.33	21.96	25	
South Canterbury	19.68	79.77	3.82	1.246	1.246	1.341	3.82	15.07	15.47	114.20	0.564	10.83	68.72	0.229	4.49	7.60	0.783	15.22	25.04	26	
South Taranaki	17.66	59.53	3.35	0.887	0.887	0.939	4.96	16.50	16.94	225.81	0.695	11.55	69.48	0.192	3.07	6.46	0.783	15.22	31.00	27	
Springs-Ellersmere	17.66	69.59	3.19	0.826	0.826	0.913	5.00	21.83	15.96	185.27	0.560	10.82	67.10	0.202	3.01	7.60	0.762	14.73	28.05	28	
Taranaki	30.71	100.38	6.44	1.066	1.066	0.951	4.78	19.05	15.33	170.13	0.383	7.25	46.95	0.314	6.28	6.36	1.033	20.36	21.03	29	
Tairāhiti	22.52	80.78	4.51	0.999	0.999	0.959	5.39	17.99	16.18	104.74	0.701	13.80	50.99	0.332	6.54	6.70	1.033	20.36	20.83	30	
Tairāhiti	25.14	74.34	3.98	0.851	0.851	0.777	5.43	18.98	16.18	111.82	0.628	11.95	61.05	0.195	5.71	5.70	0.882	15.06	24.31	31	
Te Awamutu	25.14	96.42	3.98	0.989	0.989	0.953	5.05	19.23	20.02	171.79	0.619	12.54	62.10	0.263	3.71	5.30	0.882	17.79	21.79	32	
Teviot	37.79	107.55	7.20	0.943	0.943	0.476	5.71	14.11	10.20	115.21	0.197	4.67	39.96	0.149	4.44	4.44	0.306	9.11	16.52	33	
Thames Valley	21.43	70.03	4.18	0.815	0.815	0.845	4.89	16.98	16.20	120.82	0.563	10.99	60.53	0.268	4.33	7.87	0.821	16.32	28.42	34	
Waimea	18.25	59.14	3.00	1.116	1.116	1.094	4.54	16.04	15.04	356.08	0.494	9.98	64.24	0.116	2.34	5.20	0.610	12.33	28.42	35	
Waikato	16.44	50.91	3.74	0.952	0.952	1.064	4.57	16.04	19.32	188.65	0.494	9.98	64.24	0.116	2.34	5.20	0.610	12.33	28.42	36	
Waikato	10.25	184.04	10.25	0.840	0.840	0.888	3.84	15.34	15.59	51.34	0.289	6.37	31.50	0.181	3.39	7.18	0.783	13.84	29.34	37	
Waikato	37.18	118.40	10.25	1.402	1.402	1.402	2.19	29.58	14.99	153.80	0.560	11.25	66.06	0.224	4.13	7.53	0.836	15.42	30.26	38	
Waikato	13.45	61.42	3.37	0.881	0.881	0.709	5.05	18.35	16.26	146.72	0.612	11.25	66.06	0.224	4.13	7.53	0.836	15.42	30.26	39	
Waikato	13.45	61.42	3.37	0.881	0.881	0.709	5.05	18.35	16.26	146.72	0.612	11.25	66.06	0.224	4.13	7.53	0.836	15.42	30.26	40	
Waikato	13.45	61.42	3.37	0.881	0.881	0.709	5.05	18.35	16.26	146.72	0.612	11.25	66.06	0.224	4.13	7.53	0.836	15.42	30.26	41	
Waikato	20.98	87.72	4.50	0.978	0.978	0.749	4.25	12.08	17.72	182.65	0.647	11.73	64.02	0.302	3.49	6.61	0.949	17.20	21.15	42	
Waikato	15.30	55.07	4.04	0.988	0.988	0.865	3.81	13.35	17.60	176.57	0.670	12.05	65.99	0.231	4.11	5.78	0.907	16.16	20.59	43	
Totals	18.17(m)	65.30(o)	4.07(c)	0.822(d)	0.864(e)	0.864(e)	4.36(p)	15.33(t)	...	188.78(f)	0.567(g)	...	67.51(v)	0.109(j)	...	5.04(k)	0.765(i)	...	23.93(m)	...	

(For notes, see page 13.)

TABLE XIII.—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31ST MARCH, 1949—continued.

Supply Authorities	Capital Outlay			Revenue from Sale of Electricity				Working-costs			Capital Charges			Total Costs			No.
	Per Head of Population	Per £1 of Revenue	Per Unit Sold (Overall, including Bulk Sales)	Per Unit Sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per k.W. of Maximum Demand	Per Route-mile of Line	Per Unit sold	Per k.W. of Maximum Demand	Per Unit sold	Per k.W. of Maximum Demand	Per Cent of Capital Outlay	Per Unit sold	Per k.W. of Maximum Demand	Per Cent. of Distribution Capital	
CITY COUNCILS																	
1. Christchurch	11.69	3.25	0.647	0.534	3.62	11.47	9.81	307.30	0.550	8.34	84.44	1.17	3.68	0.627	9.51	20.86	1
2. Dunedin	24.71	5.80	0.671	0.484	4.38	13.74	10.81	612.69	0.415	6.75	61.93	4.58	7.17	0.697	11.32	34.86	2
3. Hamilton	5.77	1.97	0.925	0.762	3.13	10.45	16.58	436.25	0.719	12.90	77.43	0.611	0.66	0.730	13.11	43.79	3
4. Invercargill	8.35	2.51	1.173	1.080	3.34	10.09	17.07	862.87	0.855	12.44	76.05	1.47	3.45	0.956	13.91	42.13	4
5. Nelson	14.04	4.90	1.058	0.887	4.78	15.15	17.91	1034.10	0.980	11.17	68.24	0.142	4.44	0.802	13.38	34.17	5
6. New Plymouth	15.38	50.97	0.823	0.686	4.74	13.19	17.22	339.49	0.636	13.30	68.35	0.124	4.40	0.766	13.80	60.88	6
7. Palmerston North	13.70	42.99	0.816	0.592	4.24	12.79	14.99	1154.81	0.569	10.29	69.19	0.083	3.02	0.643	11.80	33.86	7
8. Timaru	8.15	27.24	0.777	0.541	3.20	10.55	14.22	864.56	0.626	11.46	79.50	1.52	5.09	0.628	11.46	31.21	8
9. Wellington	12.90	42.19	0.771	0.406	4.24	13.69	11.52	803.89	0.596	8.91	82.88	1.81	5.09	0.717	10.71	37.65	9
Totals	14.24(m)	3.64(c)	0.737(d)	0.730(e)	4.00(p)	12.71(t)	...	509.15(f)	0.555(g)	...	76.73(v)	0.135(j)	5.03(k)	0.690(l)	...	35.15(m)	
BOROUGH COUNCILS																	
1. Bluff	7.58	24.12	1.602	2.165	4.85	13.84	26.02	794.53	1.260	20.47	70.54	1.96	4.33	1.381	22.43	49.48	1
2. Inglewood	8.59	20.82	0.965	0.860	5.25	11.63	23.63	504.00	1.159	10.43	75.07	0.722	2.84	1.231	20.63	56.26	2
3. Knapen	9.75	27.68	1.338	1.286	4.38	11.42	18.42	495.88	0.851	16.25	81.14	0.170	7.20	1.021	10.50	43.68	3
4. Lyttelton	6.20	19.07	1.070	0.841	4.25	12.14	19.70	700.73	1.033	15.21	72.80	0.077	3.65	1.110	16.34	52.81	4
5. Napier	9.27	29.86	1.600	1.755	4.39	13.95	22.44	607.55	0.947	13.57	65.22	0.171	7.47	0.818	17.16	44.00	5
6. Ohakune	6.34	22.11	1.041	1.092	3.65	11.81	25.28	287.62	1.236	18.40	64.87	0.231	7.31	1.467	21.95	75.61	6
7. Patea	12.90	43.13	1.041	1.092	4.69	15.66	19.34	336.46	0.770	14.30	73.69	0.130	4.54	0.900	16.72	40.47	7
8. Pictou	18.25	29.67	1.885	1.819	5.51	16.11	55.14	908.48	3.967	54.38	98.62	0.390	5.27	4.357	23.96	104.62	8
9. Rangora	10.15	78.26	1.885	1.819	3.54	13.68	23.18	271.71	0.869	14.40	46.47	0.634	5.88	1.603	23.96	28.67	9
10. Riccarton	5.75	15.23	0.959	0.740	4.91	12.74	10.93	888.69	0.696	14.46	71.18	0.071	6.19	0.767	15.94	66.88	10
11. Riccarton	9.47	33.94	0.677	0.552	3.40	11.80	12.00	1074.80	0.602	10.68	86.70	1.57	4.57	0.691	12.24	35.73	11
12. Ross (A)	10.95	31.33	1.265	1.055	4.78	13.29	21.12	915.75	1.016	16.06	77.94	0.213	7.14	1.220	20.51	41.19	12
13. Rotorua Electric Supply	11.70	34.92	1.204	1.055	6.12	15.27	22.25	821.02	0.745	13.77	61.85	0.241	8.75	0.980	18.22	35.80	13
14. Stratford	10.64	33.02	1.115	1.115	5.02	15.34	23.81	1047.65	1.054	18.56	63.43	0.158	4.48	1.211	21.34	66.16	14
15. Taihape	29.83	73.81	1.661	1.222	7.00	17.15	27.57	758.33	0.893	14.82	49.07	0.561	7.85	1.454	24.14	42.50	15
16. Taumarunui	38.84	106.80	0.677	0.371	5.36	14.01	11.45	21.50	0.197	4.55	38.18	0.115	3.88	0.312	7.20	25.28	16
17. Te Aroha	9.31	24.80	1.276	1.094	4.71	14.35	22.13	853.78	0.912	14.84	70.57	0.064	3.95	1.043	16.10	46.00	17
18. Thames	8.05	24.40	1.086	1.042	4.71	14.35	22.13	853.78	0.912	14.84	70.57	0.064	3.95	1.043	16.10	46.00	18
19. Waikato	7.29	20.41	1.086	1.042	3.58	12.00	17.08	969.83	0.720	11.32	63.04	0.160	14.42	0.904	13.84	79.39	19
20. Waikato	6.42	22.30	2.248	1.784	4.02	12.64	37.20	401.87	1.772	29.33	75.27	0.308	5.93	0.280	17.42	39.65	20
21. Westport	16.82	53.24	1.196	0.927	5.23	16.64	10.57	855.03	0.697	11.42	57.90	0.200	5.23	0.897	34.42	50.69	21
22. Whakatane	15.95	49.61	1.245	0.934	4.49	13.50	10.29	655.28	0.954	14.78	74.50	0.186	4.10	1.140	17.67	23.46	22
23. Whangarei	12.39(m)	38.00(o)	1.151(c)	...	4.63(p)	13.80(t)	...	540.24(f)	0.706(g)	...	67.91(v)	0.171(j)	5.78(k)	0.937(l)	...	37.83(m)	
Totals	15.40	53.62	1.241	1.225	6.39	21.43	22.00	205.76	0.958	17.49	75.81	0.150	4.91	1.108	20.22	36.51	1
1. Kaponga	17.88	35.28	1.217	1.223	9.63	12.20	18.88	156.00	1.014	25.04	85.21	0.077	2.18	1.691	26.23	50.55	2
Totals	15.77(m)	48.56(o)	1.237(d)	1.237(e)	0.87(p)	10.27(r)	...	104.87(f)	1.057(g)	...	77.79(v)	0.139(j)	4.45(k)	1.195(l)	...	39.40(m)	

TABLE XIII.A.—SUMMARY OF TOTALS FROM TABLES IX, X, AND XI.

No.	Item	State Hydro-electric Department	Electric-power Boards	Other Local Authorities					Companies	Total, all Supply Authorities	No.
				City Councils	Borough Councils	Town Boards	County Councils	Total			
1	Population in area of supply ...	Number	Number	Number	Number	Number	Number	Number	Number	1	
2	Number of consumers ...	1,144,990	1,144,990	1,930	1,06,910	6,010	637,350	7,510	1,840,850	2	
3	Units generated ...	45,193	318,641	627	34,783	1,775	197,956	1,564	533,354	3	
4	Units sold (retail) ...	2,554,172,158	59,378,931	—	28,512,103	926,876	188,369,805	42,514,171 (1)	2,844,405,165	4	
5	Units sold (bulk, plus retail) ...	133,056,337	1,357,003,918	2,343,721	100,089,275	5,730,005	772,426,197	15,470,832	2,277,957,284	5	
6	Route miles of lines (including service lines) ...	2,402,064,817	1,493,927,217	2,343,721	107,428,127	5,730,005	781,819,480	42,896,039 (2)	4,720,707,553	6	
		6,023	27,101	62	903	49	5,033	157	38,314		
7	Capital outlay ...	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	7	
8	Capital outlay on transmission and distribution system (3) ...	44,488,020	20,806,872	30,444	1,325,047	57,270	8,855,136	289,795	74,439,823	8	
9	Revenue (retail sales) ...	17,445,349	19,904,733	29,557	1,108,216	34,451	6,620,976	83,171	44,054,229	9	
10	Revenue (bulk sales) ...	385,753	4,886,074	12,082	480,143	27,657	2,563,951	37,924	7,873,702	10	
11	Revenue (retail, plus bulk sales) ...	3,222,900	230,013	—	7,692	—	9,877	26,889	3,489,679	11	
12	Gross revenue (excluding rates) ...	3,608,653	5,116,087	12,082	487,835	27,657	2,573,828	64,913	11,363,381	12	
13	Gross revenue (less revenue from bulk sales, feed-back and standby charges) ...	3,661,405	5,254,926	13,266	515,676	27,951	3,039,428	66,540	12,022,299	13	
14	Working costs (including cost of generating feed-back) ...	438,505	4,989,847	13,266	495,140	27,951	2,625,228	39,651	8,093,231	14	
15	Working costs (excluding cost of generating feed-back) ...	1,709,374	3,547,511	10,319	350,235	24,760	2,290,040	39,710	7,586,635	15	
16	Capital charges ...	1,269,985	3,526,434	1,354	426,817	31,053	1,918,884	39,710	6,755,013	16	
17	Total costs (including cost of generating feed-back) ...	1,940,883	1,236,017	11,673	76,582	6,293	458,273	7,050	3,642,223	17	
18	Total costs (excluding cost of generating feed-back) ...	3,650,257	4,783,528	11,673	426,817	31,053	2,748,313	46,760	11,228,858	18	
		3,210,868	4,762,451	11,673	419,274	31,053	2,377,157	46,760	10,397,236		

(1) Includes generation figures of Sundry Private Plants from Table X. (2) Includes bulk sales by Sundry Private Plants from Table X. (3) Includes Plant, Stocks, Motor-vehicles and Tools.

TABLE XIV.—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING MACHINES.

Supply Authorities	Population included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers			Ranges			Water-heaters			Milking-machines			Consumers per Route-mile of line (2)
			Domestic	Commercial and Industrial	Total	Number (1)	Total Kilowatts	Ratio, Number of Ranges to Domestic Consumers	Number	k.W.	Total Kilowatts	Ratio, Number of Water-beaters to Total Number of Consumers	Number	H.P.	
STATE HYDRO-ELECTRIC DEPARTMENT															
1. North Island	51,000	28.79	490	20	510	2,662	2,900	94.08	530	677	103.92	5	4	0.25	
2. South Island	51,000	...	12,826	1,857	14,683	3,558	21,462	27.97	2,756	3,245	18.77	1,707	2,636	3.68	
Totals	51,000	...	13,316	1,877	15,193	4,049	24,362	30.41	3,286	3,922	21.63	1,712	2,640	2.52	
Power Boards															
1. Ashburton	19,550	28.43	4,912	645	5,557	2,662	7,160	54.19	2,458	4,691	44.23	178	158	4.91	
2. Auckland	279,900	29.33	68,246	13,861	82,107	38,258	273,182	56.06	41,103	30,618	50.06	1,010	1,010	58.22	
3. Banks Peninsula	33,800	38.00	1,280	73	1,353	557	3,263	43.52	565	892	41.76	187	307	5.93	
4. Bay of Islands	15,27	15.27	4,464	696	5,160	1,982	12,068	44.40	2,482	1,747	48.10	1,052	1,532	4.20	
5. Bay of Plenty	18,360	16.71	2,628	440	3,068	1,424	8,548	54.19	2,135	1,735	69.59	855	1,099	8.74	
6. Buller	7,430	31.33	2,057	271	2,328	655	4,211	31.84	1,289	1,492	55.37	460	557	9.74	
7. Cambridge	10,540	25.44	2,253	428	2,681	1,381	8,201	61.30	1,212	1,435	45.21	212	251	4.29	
8. Central Hawkes Bay	35,100	28.22	8,986	919	9,905	3,376	20,536	37.57	5,536	4,554	55.89	2,295	3,401	9.82	
9. Central Waikato	12,390	29.10	3,018	588	3,606	1,161	7,194	38.47	1,395	1,213	38.69	556	633	8.88	
10. Dannevirke	25,200	26.21	6,090	515	6,605	3,107	18,541	51.02	5,468	4,006	82.79	2,750	3,087	7.49	
11. Franklin	3,420	22.87	662	120	782	286	1,321	43.20	355	256	45.40	162	132	6.05	
12. Golden Bay	19,340	32.61	5,405	901	6,306	1,564	9,750	28.94	1,094	1,211	17.35	86	88	21.13	
13. Grey	39,400	28.77	10,134	1,200	11,334	5,836	46,688	57.59	5,755	5,737	50.78	438	462	18.61	
14. Hawkes Bay	21,800	36.89	7,143	899	8,042	3,223	21,071	45.12	3,745	2,642	46.57	857	1,075	9.25	
15. Horowhenua	80,700	29.74	20,986	3,018	24,004	11,475	78,010	54.68	12,305	9,237	51.26	156	163	31.37	
16. Hutt Valley	9,500	10.84	933	97	1,030	124	744	13.29	141	121	11.75	107	102	6.88	
17. King Country	4,560	20.90	834	119	953	244	1,146	29.26	145	265	15.22	13	10	4.67	
18. Malvern	23,600	27.28	5,797	642	6,439	2,582	17,507	44.54	3,497	2,436	54.31	1,854	2,440	8.75	
19. Manawatu-Oroua	16,590	26.62	3,732	685	4,417	988	7,342	26.47	828	741	18.75	178	254	12.62	
20. Marlborough	27,400	24.20	5,966	664	6,630	2,838	15,458	47.57	4,779	3,413	72.08	2,264	3,041	5.95	
21. North Auckland	15,130	31.45	4,296	462	4,758	1,641	9,265	38.20	1,521	2,397	31.97	372	260	4.84	
22. North Canterbury	5,990	25.48	1,355	156	1,511	691	4,039	51.00	1,020	864	67.51	228	293	7.09	
23. Opanake	25,550	25.32	5,351	305	5,656	1,119	6,889	20.24	1,046	1,409	16.17	225	293	7.51	
24. Otago Central	8,370	30.31	2,232	305	2,537	784	4,336	35.13	827	849	35.60	60	29	4.02	
25. Poverty Bay	34,800	22.45	6,310	1,502	7,812	3,020	21,374	47.86	2,994	2,985	38.33	349	299	16.29	
26. South Canterbury	26,220	29.34	3,933	788	4,721	1,457	9,489	25.66	1,251	1,790	19.34	316	241	5.47	
27. South Taranaki	16,550	29.34	3,283	329	3,612	1,755	10,870	44.62	2,581	1,817	53.15	1,081	1,384	12.72	
28. Springs-Ellesmere	14,230	25.38	3,352	231	3,583	1,138	8,707	30.56	1,581	1,957	43.77	377	314	8.49	
29. Taranaki	14,470	27.88	2,097	387	2,484	1,374	7,235	52.86	2,037	1,630	56.85	1,527	2,425	7.20	
30. Tauranga	8,910	28.21	4,184	358	4,542	1,981	9,548	63.47	1,313	980	52.86	549	619	5.85	
31. Te Awa-mutu	16,100	26.08	3,121	443	3,564	2,772	17,205	66.25	3,380	2,867	74.42	983	1,220	5.96	
32. Te Awa-mutu	14,550	35.14	4,43	179	4,609	1,981	9,548	63.47	2,272	2,145	59.88	1,013	1,532	8.93	
33. Te Awa-mutu	1,770	28.18	11,645	1,121	12,766	5,118	36,732	43.95	8,327	7,118	65.23	3,829	6,333	8.08	
34. Teviot	45,300	30.86	4,465	1,006	5,471	2,070	13,029	46.36	2,014	1,229	36.81	332	233	6.62	
35. Thames Valley	17,730	...	...	...	...	...	...	...	...	...	...	...	...	18.07
36. Waimea	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(For notes, see page 17.)

TABLE XIV.—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING MACHINES—continued.

Supply Authorities	Population included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers			Ranges			Water-heaters			Milk-machines		Consumers per Route-mile of line (2)	No.
			Domestic	Commercial and Industrial	Total	Number (1)	Total Kilowatts	Ratio of Number of Ranges to Domestic Consumers	Number	Total Kilowatts	Ratio of Number of heaters to Total of Consumers	Number	H.P.		
Town Boards	Number	Per Cent.	Number	Number	Number	kW.	Per Cent.	Number	kW.	Per Cent.	Number	H.P.	Number	Number	
1. Kaponga ...	1,640	29.27	391	480	149	1,005	38.11	290	239	60.42	188	283	9.60	1	
2. Mangaweka ...	290	50.69	108	147	54	277	50.00	61	38	41.50	10	9	12.78	2	
Totals ...	1,930	32.49	499	627	203	1,282	40.68	351	277	55.98	198	292	10.11		
County Councils	Number	Per Cent.	Number	Number	Number	kW.	Per Cent.	Number	kW.	Per Cent.	Number	H.P.	Number	Number	
1. Heathcote ...	3,500	30.43	1,059	1,065	712	3,903	67.23	809	900	75.96	3	5	57.26	1	
2. Kaikoura ...	1,320	26.44	267	349	14	33	5.24	1	1	0.29	4	2	39.89	2	
3. Murchison ...	760	30.00	200	228	15	90	7.50	38	34	16.67	55	50	13.41	3	
4. Uawa ...	430	30.93	96	133	...	...	...	...	...	...	...	...	38.00	4	
Totals ...	6,010	29.53	1,622	1,775	741	4,026	45.68	848	935	47.77	62	57	36.22		
Companies	Number	Per Cent.	Number	Number	Number	kW.	Per Cent.	Number	kW.	Per Cent.	Number	H.P.	Number	Number	
1. Kanieri Electric Ltd. (4)	3,060	32.39	781	991	216	1,420	27.66	124	135	12.51	...	...	33.03	1	
2. Wilson's (N.Z.) Portland Cement, Ltd. ...	1,210	6.36	65	77	41	267	63.08	58	48	75.32	35	64	2.00	2	
3. Westland Power Ltd (4)	3,240	15.31	436	496	86	545	19.73	109	112	21.98	99	123	5.58	3	
Totals ...	7,510	20.83	1,282	1,564	343	2,232	26.76	291	295	18.61	134	187	9.96		
GRAND TOTALS ...	1,840,850	28.97	454,989	533,354	200,692	1,307,399	44.11	234,309	213,769	43.93	37,079	46,670	13.92		

NOTES.—(1) Only ranges requiring permits for connection to Electric supply—therefore not comparable with earlier published statistics. (2) Route-miles of lines now include service lines. (3) Not activity functioning. (4) Returns for year ended 31/12/48. (5) No return received.

Total population of Dominion as at 31/3/40 was 1,873,301. Ratio of total population in area of Supply to total population of Dominion=48.208%

Totals ...	106,910	32.53	28,140	6,643	34,783	10,499	69,977	37.31	11,936	9,578	34.32	651	720	38.52
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(For notes, see page 17.)

TABLE XVII.—STATISTICS RELATING TO ELECTRICAL WIREMEN'S REGISTRATION BOARD FOR YEAR
31ST MARCH, 1949.

(The figures in parenthesis are for the previous year)

1. Number of Wiremen's Registration Board Meetings: 15 (14).

2. Registrations:—

Inspectors	36	(37)
Electrical Wiremen	312	(300)
Electrical servicemen, Class "D"	40	(93)
Electrical servicemen, Class "E" (including radio)	78	(90)
Electrical servicemen, Class "E" (excluding radio)	2	(3)
Limited registration	11*	(19)
Provisional Licenses	70	(24)
Temporary permits	5	(2)
Registrations after periodical purging	192	()

	During Year	Total	Cur.
	36 (37)	955 (919)	430
	312 (300)	5,544 (5,232)	4,621
	40 (93)	241 (201)	217
	78 (90)	363 (285)	376
	2 (3)	38 (36)	25
	11* (19)	1,292† (1,281)	840
	70 (24)	963 (893)	38
	5 (2)	138 (133)	—
	192 ()	192 (—)	—
	Candidates	Passed Per Cent	Highes
3. Examinations:—			
Wiremen—			
Written	747 (765)	34 (33)	100%
Practical	467 (550)	68 (59)	94
Servicemen—			
Written	370 (288)	46 (37)	96
Practical	204 (213)	56 (60)	95

4. Defective work reports: 13 (26); Endorsements made, 5 (1); Endorsements removed, 3 (nil)

5. Breach of Act reports: 36 (34); Prosecutions authorised, 29 (23)

*Includes; Maintenance Work Fire Brigade, 1; Radio Experimenter, 3; Serviceman (Supply Authority), 4; Cinematograph Operator, 1; Lux charge Tubes, 1; Assembly of Apparatus for Sale, 1.

†Includes Radio Servicemen registered prior to the introduction in 1939, of the examinations for Electrical Servicemen, Class "E," and incl miscellaneous registrations.