

ANNUAL STATISTICS IN RELATION TO HYDRO-ELECTRIC DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1954

For full text of the General Manager's Report, refer to State Hydro-electric Statement, 1954, Appendix A, pages 6 to 39 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, 1953-54

		1954	1953	Increase or Decrease
(a) Installed generating capacity (main stations)	kW	764,857	701,977	+62,880
(b) Installed generating capacity (standby)	kW	75,750	84,805	-9,055
(c) Total connected load (excluding bulk supply)	kW	6,431,394	5,906,731	+524,663
(d) Consumers	No.	643,777	622,439	+21,338
(e) Units sold per head of total population	No.	1,546	1,395	+151
(f) Units sold per consumer	No.	5,014	4,565	+449
(g) Route-miles of main, distribution and service lines	R.M.	48,304	45,769	+2,535
(h) Consumers per route-mile of line (including service lines)	No.	13.33	13.60	-0.27
(i) Sales (retail) per route-mile of line (including service lines)	Units	66,824	62,083	+4,741
(j) Electrical fires reported	No.	38	23	+15
(k) Electrical accidents reported	No.	77	65	+12
		(15 fatal)	(13 fatal)	+2
(l) Electric ranges installed	No.	302,163	278,444	+23,719
(m) Electric water heaters installed	No.	349,359	322,432	+26,927
(n) Electric milking machines installed	No.	45,095	42,800	+2,295

B. Summarized Results of Operations for the Year ended 31 March 1954

Item		Water	Steam	Oil	Total
1. Number of main stations	No.	27		2	29
2. Installed capacity (main plant)	kW	764,465		392	764,857
3. Number of standby plants	No.	16	6	11	33
4. Installed capacity (standby plant)	kW	8,230	53,412	14,108	75,750
5. Units generated	No.	3,940,601,309	79,788,016	9,101,359	4,029,490,684
6. Units sold to consumers					3,227,879,462
7. Percentage of non-productive units					19.80%
8. Number of consumers					643,777
9. Connected load (excluding bulk supply)					6,431,394
10. Total operative capital (including distribution systems and standby plant)					£143,132,792
11. Total capital per kilowatt installed (including distribution systems, etc.)					£170.27
12. Annual working costs (excluding cost of power purchased in bulk)					£5,887,307
13. Annual working cost per unit under item 6					0.438d.
14. Annual capital cost (interest, sinking fund, and depreciation, etc.)					£6,160,870
15. Annual capital cost per unit under item 6					0.458d.
16. Annual capital cost as a percentage of capital					4.304%
17. Total annual costs (item 12 plus item 14)					£12,408,177
18. Total annual cost per unit under item 6					0.896d.
19. Total annual revenue (from retail sale of electricity)					£14,891,478
20. Average revenue per unit (from items 19 and 6)					1.107d.
21. Gross revenue (excluding rates and bulk sales)					£15,434,807
22. Net profit (item 21 less item 17)					£3,386,630
23. Ratio of working costs to gross revenue (item 12 and item 21)					38.14%

Tables

This edition contains—

Table I—Government System : Capital Outlay and Results of Operation.	Table VI—Financial Results of Operation, etc.
Table II—Government System : Analysis of Capital Outlay.	Table VII—Averages derived from Tables IV, V, and VI.
Table III—Government System : Working-costs.	Table VIII—Populations, Consumers, Ranges, Water-heaters, and Milking-machines.
Table IV—Generating Plants, Voltages, Route-miles of Lines, etc.	Table IX—Summary of totals from Tables IV, V, VI, and VIII.
Table V—Results of Generation, Distribution, etc.	Table X—Electricians Registration Board Statistics.

TABLE I—SUMMARY OF FINANCIAL AND OPERATING STATISTICS FOR GOVERNMENT ELECTRIC-POWER SYSTEMS FOR THE YEAR ENDED 31 MARCH 1954

NOTE.—“North Island” includes Arapuni, Karapiro, Mangahao, Maraetai, and Waikaremoana main stations and Evans Bay and King's Wharf standby stations all interconnected. “South Island” includes Arnold (Kaimata), Coleridge, Highbank, Monowai, Tekapo and Waitaki main stations and Dobson standby station all interconnected; also Cobb main station and Stoke standby station all interconnected.

A. Financial

	£	£		£
Capital outlay—				
Assets in operation	65,217,963			
Assets not in operation .. .	31,597,189			
Plant, motor vehicles, and tools	939,821			
		97,754,973		
Stocks of materials		1,823,806		
Total capital invested		99,578,779		
Revenue for year—				
Sales of energy	7,785,710			
Rent and miscellaneous receipts	66,875	7,852,585		
Working costs		2,562,430		
Capital charges—				
Interest		2,181,871		
Depreciation		905,489		
Total		3,087,360		
Total costs for year		5,649,790		
			Net profit for year	2,202,795
			Allocation of profits—	
			Net loss brought forward	594,887
			Provision for taxation	597,013
			Loan capital repayment (loan redemption) .. .	*1,010,895
				2,202,795
			Balances at end of year—	
			Depreciation reserve	7,475,193
			Loan capital repayments reserve	5,826,081
			Loan capital repayments arrears	*78,163

* NOTE.—The loan redemption statutory charge for the year 1953-54 is £518,697, but only £440,534 is available after charging arrears from 1951-52 of £100,452 and arrears from 1952-53 of £409,969, leaving arrears of £78,163 to be carried forward.

B. Operating Results

	1953-54		1953-54
Maximum load (kilowatts)—		Revenue—	
North Island†	558,026	Per kW	£10.031
South Island†	218,120	Per unit output	0.436d.
	*776,146	Per unit distributed	0.540d.
		Per unit sold	0.545d.
Average Load (kilowatts)—		Working Costs—	
North Island	309,981	Per kW	£3.301
South Island	129,157	Per unit output	0.160d.
Average load factor—	Per Cent	Per unit distributed	0.178d.
North Island	55.55	Per unit sold	0.179d.
South Island	59.21	Capital Charges—	
Unit output (generated and purchased)—		(Excluding taxation and loan capital repayment)—	
North Island	2,715,435,907	Per kW	£3.978
South Island	1,131,416,488	Per unit output	0.193d.
Total	3,846,852,395	Per unit distributed	0.214d.
Units distributed—		Per unit sold	0.216d.
Units sold—		Total costs—	
North Island	2,433,418,041	(Excluding taxation and loan capital repayment)—	
South Island	996,363,887	Per kW	£7.279
Total	3,429,781,928	Per unit output	0.352d.
Units unsold (used free of charge)—		Per unit distributed	0.391d.
North Island	23,702,572	Per unit sold	0.395d.
South Island	9,248,678	Total costs†—	
Total	32,951,250	(Including taxation and loan capital repayment)—	
Total units distributed—		Per kW	£8.717
North Island	2,457,120,613	Per unit output	0.422d.
South Island	1,005,612,565	Per unit distributed	0.469d.
Grand total	3,462,733,178	Per unit sold	0.473d.
Line Losses—			
Transmission and distribution—	Units	Per Cent.	
North Island	258,315,294	9.51	
South Island	125,803,923	11.12	
	384,119,217	9.99	

* Sum of North and South Island maximum loads—not simultaneous maximum demand.
† See footnotes 1 and 2 Table V for maximum load for total public supply.

‡ Excludes loan capital repayment (loan redemption fund)

Units unsold (used free of charge)

TABLE II—ANALYSIS OF GOVERNMENT CAPITAL OUTLAY AS AT 31 MARCH 1954

North Island		South Island		Combined Totals
Hydro-electric stations—		Hydro-electric stations—		
Land, fencing, and roading—	£	Land, fencing and roading—	£	£
Arapuni	120,444	Cobb River	62,461	
Karapiro	398,704	Lake Coleridge	35,484	
Maraetai	621,974	Waitaki	48,804	
Whakamaru	289,217	Lake Tekapo	28,452	
Atiamuri	25,180	Arnold	1,830	
Tuaiti	21,616	Highbank	18,514	
Piripaua	40,899	Monowai	29,098	
Kaitawa	25,471	Roxburgh	138,070	
Mangahao	83,083			
	<u>1,626,588</u>		<u>362,713</u>	1,989,301
Headworks—		Headworks—		
Arapuni	1,426,019	Cobb River	3,120,712	
Karapiro	2,204,216	Lake Coleridge	546,175	
Lake Taupo Control	201,591	Waitaki	1,663,554	
Maraetai	5,512,755	Lake Tekapo	2,548,340	
Whakamaru	5,020,136	Lake Pukaki Control	2,314,771	
Atiamuri	520,940	Arnold	108,161	
Tuaiti	197,736	Highbank	333,788	
Piripaua	715,668	Monowai	86,660	
Kaitawa	1,214,623	Roxburgh	8,707,317	
Lake Waikaremoana Control	433,553			
Mangahao	949,637			
	<u>18,396,874</u>		<u>19,429,478</u>	37,826,352
Station buildings and permanent village—		Station buildings and permanent village—		
Arapuni	512,789	Cobb River	338,089	
Karapiro	566,588	Lake Coleridge	136,739	
Maraetai	1,488,737	Waitaki	1,539,434	
Whakamaru	179,322	Lake Tekapo	495,865	
Tuaiti	306,934	Arnold	10,767	
Piripaua	107,849	Highbank	107,347	
Kaitawa	178,754	Monowai	55,984	
Mangahao	126,657	Roxburgh	193,002	
	<u>3,467,630</u>		<u>2,877,227</u>	6,344,857
Generating plant and machinery—		Generating plant and machinery—		
Arapuni	1,079,671	Cobb River	367,975	
Karapiro	956,267	Lake Coleridge	249,990	
Maraetai	1,800,618	Waitaki	1,148,813	
Whakamaru	628,975	Lake Tekapo	427,892	
Tuaiti	475,852	Arnold	26,917	
Piripaua	212,709	Highbank	179,598	
Kaitawa	348,836	Monowai	61,065	
Mangahao	318,883	Roxburgh	1,069,483	
	<u>5,822,111</u>		<u>3,531,723</u>	9,353,834
Fuel stations—		Fuel stations—		
King's Wharf	438,429	Stoke	79,302	
Penrose	10,032	Dobson	173,136	
Evans Bay	295,000			
	<u>743,461</u>		<u>252,438</u>	995,899
Transmission and distribution—		Transmission and distribution—		
Primary distribution—		Primary distribution—		
11 kV. lines	125,040	11 kV. lines	1,000,295	
33 kV. lines .. .. .	.. .. .	33 kV. lines	57,911	
50 kV. lines	778,121	50 kV. lines .. .. .	.. .. .
66 kV. lines .. .. .	.. .. .	66 kV. lines	1,629,926	
110 kV. lines	3,983,040	110 kV. lines	1,683,419	
220 kV. lines	4,734,398	220 kV. lines	1,374,300	
Secondary distribution .. .. .	.. .. .	Secondary distribution	473,531	
	<u>9,620,599</u>		<u>6,219,382</u>	15,839,981
Substations—		Substations—		
11 kV. .. .. .	.. .. .	11 kV.	9,052	
33 kV. .. .. .	.. .. .	33 kV.	43,633	
50 kV.	1,257,530	50 kV. .. .. .	.. .. .
66 kV. .. .. .	.. .. .	66 kV.	1,417,546	
110 kV.	4,788,694	100 kV.	1,296,998	
220 kV.	4,510,078	220 kV.	999,514	
	<u>10,556,302</u>		<u>3,766,743</u>	14,323,045
Communications	523,832	Communications	234,973	758,805
General—		General—		
Offices, stores, land, and buildings	440,234	Offices, stores, land and buildings	100,912	
Surveys and investigations of other schemes	1,243,128	Surveys and investigations of other schemes	211,907	
Cost of raising loans	327,095	Cost of raising loans	537,476	
Interest capitalized during construction	4,227,508	Interest capitalized during construction	2,294,818	
	<u>6,237,965</u>		<u>3,145,113</u>	9,383,078
	<u>£56,995,362</u>		<u>£39,819,790</u>	<u>£96,815,152</u>

TABLE III—GOVERNMENT OPERATING OR WORKING COSTS FOR THE YEAR ENDED 31 MARCH 1954

	Completed 31/3/54	Cost	Cost per Unit		
			Generated	Distributed	Sold
(a) Hydro-electric stations	3,624,305	£ 417,937	d. 0-0272	..	..
(b) Fuel stations	995,299	558,117	1-9384	..	..
(c) Auxiliary stations, power purchased, and standby provisions		296,644	0-7802	..	..
Generated and purchased		1,272,698	0-0794	0-0882	0-0890
(d) Transmission	10,001,883	165,842	0-0104	0-0115	0-0116
(e) Communications	13,107,697	53,765	0-0034	0-0037	0-0038
(f) Substations	234,594	279,380	0-0174	0-0194	0-0195
(g) Retail distribution	1,512,513	60,880	0-0038	0-0042	0-0043
(h) System operation and testing		94,796	0-0059	0-0066	0-0066
(i) Administration costs and general expenses		635,069	0-0396	0-0440	0-0445
	58,973,900	2,562,430	0-1599	0-1776	0-1793

	North Island	South Island	Totals
Units generated—			
Hydro-electric	2,591,452,050	1,095,054,240	3,686,506,290
Fuel	63,039,998	6,061,380	69,101,378
Purchased	60,943,859	30,300,868	91,244,727
Totals	2,715,435,907	1,131,416,488	3,846,852,395
Units distributed	2,457,120,613	1,005,612,565	3,462,733,178
Units sold	2,433,418,041	996,363,887	3,429,781,928

Administration costs were 10.36% of
(Total charges less Administration charges)

Capital charges were 7.13% of
Completed works (excluding depreciation,
cost of loans & capitalized interest)

Capital charges.

Interest 2,141,571

Depreciation 905,449

Provision 577,013

£ 3,664,033

TABLE IV—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1954—continued

Authorities	Sources of Supply*	Year when Supply Com-menced	Capacity of Generating Plant				Static Head, in Feet	Generation	Voltage			Secondary Distribution	Distribution Transformers		Route Miles of Lines†	No.	
			Water	Steam	Oil	Main Plant			Standby Plant	Total Capacity	Transmission		Primary Distribution	Number			kVA
DS—continued	G.S.	1926															
	I. & B.	1923	6,030	7,870		7,870	6,030	7,870	6,000	3,300	3,300	404	6,180	698	25		
	G.N.	1912			980	1,150	980	1,150	0,400	440 D.C.	752	23,114	721	20			
RY	G.S.	1925									0,000	0,000	15,051	1,234	27		
	G.N.	1929	550		486						0,000	0,000	11,500	420	29		
	G.S.	1922				1,302	1,042	1,302	5,500		11,000	0,000	10,532	517	29		
ere	I. & G.N.	1927	4,800	5,400		5,400	4,800	5,400	6,600	33,000	11,000	601	12,316	622	30		
	G.N.	1925									3,300	504	0,390	506	31		
	G.N.	1926									11,000	933	13,201	1,012	32		
	G.N.	1921									3,350	432	12,117	473	33		
	I.	1924	750	1,005		1,005	750	1,005	3,300		3,300	184	1,572	81	34		
	G.N.	1921							3,300		3,300	825	38,038	2,105	35		
	G.S.	1933	250	270		270	250	270	400		11,000	477	13,962	647	37		
	G.N.	1923	837	1,104		1,104	837	1,104	3,300		3,300	602	17,018	787	30		
	I. & G.N.	1925	1,400	1,540		1,540	1,400	1,540	5,000		11,000	342	9,251	360	38		
	G.N.	1923							400		0,600	186	5,037	258	30		
	G.S.	1926	120	150		150	120	150	3,300		11,000	776	17,047	716	40		
	G.N.	1920									3,300	977	40,483	2,337	41		
	G.N.	1924									11,000	389	8,857	408	42		
th	G.N.	1924									11,000	1,089	34,463	1,305	43		
			17,240	10,071	9,316	13,780	9,903	8,747	20,743	24,818		26,866	872,797	35,536			
UNOLS	G.S.	1903															
	I. & G.S.	1907	24,400	30,500		30,500	1,875	2,340	29,275	32,840	700	858	110,230	1,594	1		
	G.N.	1913										1,170	78,742	730	2		
	G.S.	1914										50	9,600	201	3		
	B.	1913			400		1,000	1,250	1,000	1,250		97	10,039	125	4		
	B.	1923										45	8,005	141	5		
	G.N.	1906	3,750	4,500		4,500	1,350	1,501	3,750	4,500		42	8,290	70	6		
	B.	1924										301	10,479	411	7		
	B.	1908										85	14,200	123	8		
	G.N.	1888										61	16,620	75	9		
			28,150	30,500	2,400	24,400	10,375	12,651	34,775	43,151		9,783	1,017,165	1,000	10		

TABLE VI—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1954

Supply Authorities	Capital Outlay	Revenue			Working Costs			Capital Charges				Net Results		No. of Meters Made up by Efficiency			
		£(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.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)			
HYDRO-ELECTRIC DEPT.	97,754,073	88,705,720	501,028	7,103,784	109,802	2,037,038	17,094	635,060	18,187	107,350	10,180	18,483	15,200	159,992	1,084,008	1	
POWER BOARDS	733,202	620,378	4,872	179,124	78,039	1,312,098	300,103	208,547	67,843	1,620,808	10,180	18,483	15,200	159,992	1,084,008	1	
London	6,924,927	2,920,445	3,219	13,056	1,312,098	4,872	179,124	208,547	67,843	1,620,808	10,180	18,483	15,200	159,992	1,084,008	1	
Edinburgh	174,240	140,605	50	42,607	4,872	1,312,098	300,103	208,547	67,843	1,620,808	10,180	18,483	15,200	159,992	1,084,008	1	
Peninsula	610,444	714,900	362	220,004	77,705	42,607	16,718	10,716	22,901	137,018	3,005	7,822	3,005	199,410	90,504	1	
Islands	349,388	158,011	5,405	154,636	74,901	1,312,098	300,103	208,547	67,843	1,620,808	10,180	18,483	15,200	159,992	1,084,008	1	
Plenty	65,979	59,738	533	40,221	14,114	4,872	16,718	10,716	22,901	137,018	3,005	7,822	3,005	199,410	90,504	1	
Ides	168,178	43,115	340	82,014	34,853	7,709	4,872	16,718	10,716	22,901	137,018	3,005	7,822	3,005	199,410	90,504	1
Hawke's Bay	469,940	285,893	378	115,000	7,802	9,034	63,179	10,282	1,956	47,088	4,060	8,78	12,148	30,284	83,403	1	
Waikato	1,006,923	682,002	378	373,733	164,402	43,455	48,757	256,014	19,529	7,678	8,78	12,148	30,284	83,403	1		
Wairarapa	981,168	703,870	2,202	111,775	118,690	21,852	26,528	160,979	22,087	16,469	16,469	16,469	16,469	206,002	49,882	1	
Wairangi	788,088	423,114	443	255,084	37,001	2,610	4,188	2,610	2,744	160,979	16,469	16,469	16,469	206,002	49,882	1	
Bay of Plenty	140,338	70,932	443	177,781	89,028	26,825	10,743	135,596	3,553	7,035	6,176	3,202	6,557	29,216	8,743	1	
Bay of Islands	132,703	60,435	486	177,781	89,028	26,825	10,743	135,596	3,553	7,035	6,176	3,202	6,557	29,216	8,743	1	
Bay of Islands (cont.)	1,132,750	610,138	2,911	399,643	221,247	30,343	40,340	293,557	23,292	2,618	2,618	2,618	2,618	19,096	154,682	23,009	1
Bay of Islands (cont.)	1,704,701	803,313	2,911	210,010	97,651	17,136	144,682	15,440	75	11,084	47,564	73,031	73,031	185,903	18,007	1	
Bay of Islands (cont.)	1,240,401	603,574	491	774,095	488,787	109,378	51,027	643,162	28,376	3,020	2,530	69,964	94,786	737,978	37,017	1	
Bay of Islands (cont.)	364,801	275,127	927	66,072	18,707	9,759	32,741	32,741	9,050	1,331	10,021	10,021	10,021	53,143	13,478	1	
Bay of Islands (cont.)	199,518	96,400	800	20,272	8,700	2,440	4,818	15,470	3,807	2,071	2,071	2,071	2,071	8,554	8,554	1	
Bay of Islands (cont.)	992,171	301,100	783	381,459	210,854	38,107	19,685	277,040	11,568	18,009	595	20,388	51,247	928,693	23,640	1	
Bay of Islands (cont.)	587,637	280,653	37	152,115	48,531	12,583	8,790	91,444	10,967	11,142	1,707	7,885	81,201	123,209	23,010	1	
Bay of Islands (cont.)	1,108,618	620,329	2,392	298,292	149,410	30,559	24,008	204,043	19,065	41,864	11,764	11,764	11,764	136,678	35,090	1	
Bay of Islands (cont.)	831,178	420,337	2,274	153,252	76,380	17,575	10,953	105,953	11,187	1,274	2,600	2,600	2,600	136,678	35,090	1	
Bay of Islands (cont.)	255,895	84,976	600	67,454	28,949	5,965	7,039	42,469	2,951	3,398	1,068	1,068	1,068	15,457	9,551	1	
Bay of Islands (cont.)	819,849	432,728	1,727	180,095	61,432	34,203	9,875	105,510	16,433	7,008	12,958	12,958	12,958	142,809	46,229	1	
Bay of Islands (cont.)	427,380	200,455	1,007	71,293	76,035	30,473	12,278	31,440	6,338	14,000	1,450	1,450	1,450	19,018	49,488	21,806	1
Bay of Islands (cont.)	815,112	415,550	1,007	204,138	140,018	22,851	22,120	146,082	14,400	18,053	22,614	22,614	22,614	108,098	6,080	1	
Bay of Islands (cont.)	797,883	462,700	1,564	262,808	81,182	18,038	10,008	121,040	16,562	18,653	23,270	23,270	23,270	243,473	19,382	1	
Bay of Islands (cont.)	362,107	50,085	885	160,832	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	1	
Bay of Islands (cont.)	414,650	273,615	722	170,544	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1	
Bay of Islands (cont.)	705,730	435,787	641	217,500	97,491	17,794	15,154	130,775	16,952	4,806	10,106	10,106	10,106	30,180	140,408	23,070	1
Bay of Islands (cont.)	284,401	189,000	4,275	82,723	97,042	9,462	11,204	55,205	6,370	5,610	15,567	15,567	15,567	21,377	70,564	6,142	1
Bay of Islands (cont.)	710,780	453,787	411	107,808	61,703	18,791	12,586	93,079	8,500	5,922	6,358	6,358	6,358	113,859	11,800	1	
Bay of Islands (cont.)	530,017	290,017	872	140,005	255,396	62,872	35,931	363,040	25,700	14,156	74,286	74,286	74,286	497,794	100,600	1	
Bay of Islands (cont.)	80,298	42,611	872	14,720	128,348	15,531	14,750	159,164	10,295	2,600	19,087	19,087	19,087	32,782	191,940	52,438	1
Bay of Islands (cont.)	1,258,300	705,000	2,177	684,394	1,312,098	4,872	179,124	208,547	67,843	1,620,808	10,180	18,483	15,200	159,992	1,084,008	1	
Bay of Islands (cont.)	687,902	303,043	8,821	238,454	96,921	31,440	24,700	154,864	10,898	12,842	5,053	5,053	5,053	39,717	194,561	39,736	1
Bay of Islands (cont.)	600,057	160,198	8,821	32,870	6,334	6,334	6,334	6,334	6,334	6,334	6,334	6,334	6,334	13,177	28,143	4,736	1
Bay of Islands (cont.)	243,780	106,198	1,061	48,392	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	10,043	50,373	7,019	1
Bay of Islands (cont.)	137,580	68,329	1,061	168,815	30,979	4,597	6,303	40,330	2,604	7,855	6,488	6,488	6,488	10,043	50,373	7,019	1
Bay of Islands (cont.)	450,920	250,255	6,521	108,815	1,103	1,103	1,103	1,103	1,103	1,103	1,103	1,103	1,103	29,952	47,692	9,242	1
Bay of Islands (cont.)	1,400,552	507,355	6,283	600,800	317,373	106,100	49,071	472,604	30,233	53,794	53,794	53,794	53,794	660,850	40,537	1	
Bay of Islands (cont.)	431,409	200,385	710	100,800	50,134	10,952	17,763	71,603	2,922	2,922	5,222	5,222	5,222	26,004	94,717	16,278	1
Bay of Islands (cont.)	983,003	301,214	16,934	370,388	169,415	42,347	31,888	243,650	14,379	3,400	4,292	4,292	4,292	317,420	58,008	1	
Totals	31,005,827	15,981,158	103,772	10,480,614	35,533	24,539	5,302,121	935,654	7,005,302	650,383	239,693	110,976	944,040	9,400,000	1,039,301	12,087	
CITY COUNCILS	2,706,581	203,890	7,001	1,130,300	751,497	159,308	123,110	903,984	6,580	100,972	106,291	106,291	106,291	1,006,445	33,624	1	
Dunedin	4,194,101	3,015,631	6,262	684,883	150,073	123,110	70,950	300,354	100,101	100,972	106,291	106,291	106,291	269,887	16,629	1	
Christchurch	310,657	140,520	1,801	148,250	66,834	23,144	20,334	99,146	402	883	5,322	5,322	5,322	6,077	105,756	6,403	1
Wellington	310,657	140,520	1,801	148,250	66,834	23,144	20,334	99,146	402	883	5,322	5,322	5,322	6,077	105,756	6,403	1
Hamilton	280,515	100,190	2,861	103,340	56,100	9,715	10,807	80,262	4,255	3,539	6,815	6,815	6,815	10,199	90,461	14,865	1
Palmerston North	280,515	100,190	2,861	103,340	56,100	9,715	10,807	80,262	4,255	3,539	6,815	6,815	6,815	10,199	90,461	14,865	1
Lyttelton	517,887	240,803	5,370	265,963	112,695	52,010	15,553	187,500	2,655	2,114	5,922	5,922	5,922	22,410	209,970	55,893	1
Whangarei	448,078	72,141	408	258,229	135,204	24,438	14,248	174,488	3,024	6,379	6,558	6,558	6,558	37,355	119,690	11,700	1

TABLE VI—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1954—continued

Authority	Capital Outlay			Lump Liability		Revenue			Working Costs				Capital Charges				Total Annual Costs		Net Results		No. of Mains Collected by Way of Deduction
	Sales of Energy		Feed-back 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	Surplus	Deficit			
	Retail	Bulk for Resale (excluding Feed-back)					Generated ¹	Purchased ²											Own	Use		Generated and General	Interest	Sinking Fund	Depreciation	Other	Total	Surplus	Deficit
£(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.)		
1	21,028	14,497	14,530	108	14,530	1,799	7,043	1,610	1,610	10,452	200	...	300	...	200	10,652	3,887	...	1		
2	18,090	11,840	12,163	323	12,163	1,301	6,240	1,429	1,429	8,079	948	...	300	...	948	10,074	2,080	...	2		
3	20,983	14,520	14,530	...	14,530	1,693	8,895	1,844	1,844	12,402	111	...	300	...	111	13,566	1,356	...	3		
4	28,861	20,281	21,149	571	21,149	3,693	8,879	3,693	3,693	14,480	11	...	585	...	11	17,100	4,049	...	4		
5	21,784	12,219	13,073	789	13,073	1,952	5,106	3,432	3,432	10,735	340	...	18	...	340	12,220	1,753	...	5		
6	36,548	17,709	17,700	...	17,700	1,304	9,021	1,945	1,945	12,270	665	...	340	...	665	14,346	3,383	...	6		
7	38,158	10,087	10,845	50	10,845	2,841	9,000	3,222	3,222	15,469	804	...	340	...	804	17,355	5,727	...	7		
8	32,712	13,176	23,082	877	23,082	3,195	30,407	3,404	3,404	42,009	927	...	1,774	...	927	47,011	9,508	...	8		
9	95,243	55,930	57,110	847	57,110	26,508	59,475	29,702	29,702	104,043	2,011	...	13,305	...	2,011	131,198	6,004	...	9		
10	437,025	437,025	137,802	5,401	137,802	2,392	17,445	4,108	4,108	24,008	1,058	...	2,434	...	1,058	27,153	9,409	...	10		
11	74,138	38,554	30,995	48	30,995	2,873	6,479	2,856	2,856	12,561	976	...	1,214	...	976	34,479	5,722	...	11		
12	2,371	19,714	10,927	152	10,927	2,873	10,927	2,856	2,856	21,568	2,434	...	603	...	2,434	26,373	13,122	...	12		
13	100,410	30,475	30,995	...	30,995	6,251	1,000	7,746	7,746	22,816	3,003	...	550	...	3,003	33,242	12,475	...	13		
14	144,893	155,398	155,398	711	155,398	4,206	8,028	4,206	4,206	18,009	130	...	550	...	130	17,056	5,284	...	14		
15	33,227	3,742	3,742	693	3,742	3,727	18,500	3,290	3,290	22,517	280	...	...	...	280	26,877	3,008	...	15
16	48,723	34,068	30,881	...	30,881	4,500	18,115	4,465	4,465	24,077	794	...	...	...	794	30,681	4,719	...	16
17	27,547	5,258	20,880	...	20,880	2,114	11,477	1,806	1,806	15,097	1,338	...	...	...	1,338	18,701	9,606	...	17
18	30,630	20,289	37,707	...	37,707	4,017	15,914	3,127	3,127	23,058	1,082	...	...	...	1,082	28,701	4,719	...	18
19	80	83,823	84,434	...	84,434	8,458	42,297	9,374	9,374	60,600	39	...	...	...	39	74,304	10,130	...	19
20	210,526	83,954	711,438	140	711,438	92,500	201,130	80,221	80,221	479,155	29,402	...	23,809	...	29,402	578,392	133,296	...	20		
21	1,779,037	880,868	1,017,438	4,809	1,017,438	9,522	4,778	10,520	10,520	20,130	4,778	...	...	...	4,778	1,792,236	4,881	...	21
Totals	38,422	10,017	10,540	288	10,540	2,375	8,592	1,908	1,908	12,966	381	...	885	...	381	14,608	4,881	...	1		
Town Boards	6,092	3,326	3,436	...	3,436	0,42	1,952	500	500	3,223	13	...	53	...	13	3,239	147	...	2		
Totals	44,514	22,343	22,985	288	22,985	3,017	10,574	2,508	2,508	16,189	394	...	888	...	394	17,957	5,028	...	100		
County Councils	39,544	20,309	29,000	284	29,000	2,744	20,018	1,380	1,380	24,748	610	...	430	...	610	30,070	3,914	...	1		
County Councils	17,935	10,806	17,913	300	17,913	4,184	6,448	1,686	1,686	18,287	450	...	450	...	450	15,415	1,708	...	2		
County Councils	28,755	6,233	6,687	404	6,687	1,063	...	56	56	2,800	...	...	1,340	...	...	3,548	280	...	3
County Councils	7,376	3,610	3,648	29	3,648	...	2,923	...	...	2,970	...	...	...	...	...	2,079	609	...	4
Totals	93,610	50,027	57,485	6,444	57,485	7,991	20,018	3,250	3,250	45,292	1,444	...	880	...	1,444	50,818	6,070	...	...
Companies	110,820	21,592	20,420	86	20,420	4,068	9,712	4,012	4,012	10,173	1,800	...	...	...	1,800	23,335	4,004	...	1
Companies	120,135	14,015	25,228	388	25,228	3,397	6,508	3,397	3,397	18,287	...	...	...	...	...	10,377	8,851	...	2
Companies	79,934	47,956	25,759	67	25,759	3,250	5,248	5,910	5,910	15,722	3,327	...	3,407	...	3,407	22,546	3,213	...	3		
Totals	255,808	69,618	80,410	111	80,410	10,715	21,460	12,707	12,707	53,182	5,127	...	5,949	...	5,949	64,258	10,156	...	...
AND TOTALS	143,185,792	100,650,200	14,801,478	7,727,563	201,474	114,147	227,708	23,102,370	1,203,291	8,003,038	2,730,063	1,944,065	13,890,345	2,600,971	803,044	1,204,487	1,006,308	6,180,870	20,051,215	3,123,842	12,087

* Generated.
 * Purchased.
 * Feed-back.
 * Includes cost of street-lighting.
 * Actual running-costs only, including fuel, wages, stores, repairs, and maintenance.
 * Statutory charge for year (part paid).
 * Returns for year ended 31 December 1953.
 * Actual running-costs only, including fuel, wages, stores, repairs, and maintenance.
 * Statutory charge for year (part paid).

TABLE VII—AVERAGES FOR THE YEAR ENDED 31 MARCH 1954—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 Bank Sates)	Per Unit sold (excluding Bulk Sales)	Per Unit sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per k.W. Maximum Demand	Per k.W. of Route-mile of Line	Per Unit sold (t)	Per k.W. of Maximum Demand	Per Cent. of Capital Outlay	Per Unit sold (t)	Per k.W. of Maximum Demand	Per Cent. of Distribution Capital	No.
CITY COUNCILS																	
1. Christchurch	10.54	50.12	2.41	0.009	0.009	0.770	0.86	20.75	805.12	0.832	13.20	1.83	4.80	0.046	15.11	40.51	1
2. Dunedin	49.92	138.71	6.95	0.770	0.771	0.580	0.21	10.21	871.71	0.469	7.10	5.05	6.10	0.780	12.15	29.68	2
3. Hamilton	9.21	34.27	2.04	1.278	1.278	0.979	5.79	18.35	730.93	0.803	15.02	1.00	3.83	0.920	16.02	45.25	3
4. Invercargill	11.21	34.27	2.04	1.580	1.580	1.473	5.60	10.80	4245.39	0.822	14.05	1.07	3.70	1.212	18.40	48.40	4
5. Napier	0.06	31.58	1.55	1.088	1.088	0.884	5.80	20.43	720.10	0.832	17.46	1.82	3.08	0.932	19.80	62.44	5
6. Nelson	16.20	51.24	2.84	1.089	1.089	0.803	0.93	21.85	1629.77	0.812	14.41	1.82	3.08	0.914	16.23	44.70	6
7. New Plymouth	10.78	53.05	2.97	1.087	1.087	0.784	7.07	22.73	501.56	0.771	17.04	2.19	4.09	0.807	19.83	69.11	7
8. Palmerston North	13.57	41.18	2.00	1.054	1.054	0.773	0.60	20.03	1775.41	0.844	15.49	3.32	8.34	1.035	18.80	52.03	8
9. Timaru	0.94	31.74	1.71	1.008	1.008	0.701	5.80	18.00	1654.00	0.809	14.51	2.06	6.04	1.023	10.57	53.43	9
10. Wellington	15.10	43.46	1.97	0.980	0.980	0.651	7.08	22.00	1592.11	0.818	14.82	1.13	3.02	0.938	15.94	51.38	10
Totals	19.63(t)	60.39(o)	2.95(c)	0.937(d)	0.938(d)	0.730	0.86(p)	20.50(r)	948.04(f)	0.780(g)	...	...	5.22(k)	0.935(l)	...	43.01(m)	
BOROUGH COUNCILS																	
1. Bluff	9.10	27.27	1.45	1.082	1.082	1.050	6.39	18.80	1104.14	1.213	10.97	0.32	0.45	1.230	17.29	50.40	1
2. Inverwood	8.60	24.71	1.42	1.087	1.087	1.066	0.15	17.10	882.67	1.004	18.71	0.28	5.77	1.127	20.90	53.05	2
3. Kaupoi	8.32	25.41	1.42	1.484	1.484	1.049	6.84	17.85	1101.00	0.959	18.40	1.08	3.63	0.930	18.02	62.74	3
4. Lyttelton	8.48	29.01	1.78	1.567	1.567	1.611	4.76	16.27	284.10	1.346	21.85	0.99	0.82	1.251	21.81	56.25	4
5. Oheke	35.75	51.40	2.06	1.841	1.841	1.294	7.63	24.01	617.81	0.959	19.05	0.22	5.63	1.530	24.95	75.34	5
6. Patea	15.57	67.42	3.57	1.768	1.768	1.413	4.36	18.88	356.23	0.781	12.28	0.32	5.63	1.089	22.23	45.51	6
7. Raetihi	10.83	28.45	1.48	1.250	1.250	0.810	7.33	19.25	1485.74	0.859	16.82	0.22	5.77	1.104	18.53	27.64	7
8. Rangiora	11.23	58.47	1.70	1.038	1.038	0.810	0.60	22.71	281.13	0.770	15.27	0.22	5.77	0.964	20.44	53.05	8
9. Retarua Electric Supply	13.85	58.70	3.90	1.404	1.404	1.239	5.71	17.82	313.35	1.102	19.14	0.22	5.77	0.883	17.31	49.99	9
10. Stratford	15.10	49.08	1.92	1.450	1.450	1.082	8.28	24.43	1398.25	0.900	19.44	0.22	5.77	1.110	23.87	39.70	10
11. Tairāne	12.50	37.13	1.51	1.827	1.827	1.191	7.88	24.61	1904.60	1.104	23.56	0.43	4.97	1.301	26.60	59.01	11
12. Taumarunui	20.98	76.39	3.92	1.928	1.928	1.289	9.10	23.17	970.27	1.077	19.38	0.22	4.70	1.375	20.78	39.51	12
13. Taupo	53.75	219.64	10.92	5.778	5.778	7.789	4.03	16.30	104.60	0.694	6.94	0.22	3.19	2.707	27.08	10.79 ^a	13
14. Te Anau	35.39	92.42	5.21	0.569	0.569	0.530	8.20	21.46	705.16	0.978	6.50	0.86	4.43	0.429	9.12	30.58	14
15. Te Araroa	7.01	28.83	1.53	1.348	1.348	1.169	5.00	20.38	504.17	0.978	18.21	0.81	3.00	1.059	19.72	55.30	15
16. Waipara	8.04	28.83	1.27	1.318	1.318	1.108	7.05	25.55	1352.78	0.877	20.51	0.81	4.80	0.900	22.46	60.03	16
17. Waikanae	10.60	33.71	0.93	1.108	1.108	1.060	8.20	25.55	1000.32	0.973	15.44	1.78	10.15	1.084	17.12	97.55	17
18. Wairarapa	19.86	63.73	2.47	1.547	1.547	1.301	5.81	18.72	1104.20	1.151	21.14	0.22	2.70	1.294	23.53	43.02	18
19. Whakatane	15.89	51.08	2.51	1.711	1.711	1.421	8.02	25.75	701.80	1.072	17.53	0.22	6.19	1.384	21.83	35.20	19
20. Whangarei	17.05(t)	52.80(o)	2.50(c)	1.285(d)	1.337(e)	1.083	0.34	20.61	940.22	0.987	15.00	0.22	6.79	1.223	18.57	35.20	20
Totals	17.05(t)	52.80(o)	2.50(c)	1.285(d)	1.337(e)	1.083	0.66(p)	20.20(r)	638.38(f)	0.886(g)	...	...	5.57(k)	1.071(l)	...	38.97(m)	
TOWN BOARDS																	
1. Kaponga	20.55	70.50	2.02	1.557	1.557	1.375	10.17	34.80	348.04	1.001	18.03	0.48	4.43	1.201	21.41	38.18	1
2. Mangaweka	10.03	40.08	1.83	1.631	1.631	1.507	8.75	21.88	280.22	1.484	23.70	0.49	1.03	1.514	24.18	58.40	2
Totals	19.78(t)	63.87(o)	1.99(c)	1.553(d)	1.553(e)	1.399	10.22(p)	32.06(r)	398.63(f)	1.125(g)	...	...	3.97(k)	1.248(l)	...	40.77(m)	

(For notes see page 14.)

TABLE VII—AVERAGES FOR THE YEAR ENDED 31 MARCH 1954—continued

Supply Authorities	Capital Outlay			Revenue from Sale of Electricity					Working-costs			Capital Charges			Total Costs			No.		
	Per Head of Population	Per Consumer	Per £1 of Revenue	Per Unit sold (including Bulk Sales)	Per Unit sold (excluding Bulk Sales)	Per Unit sold (Domestic Supply)	Per Head of Population	Per Retail Consumer	Per kW. of Maximum Demand	Per Route-mile of Line	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
COUNTY COUNCILS																				
1. Heathcote	8.62	31.09	1.35	0.965	0.823	6.40	23.51	15.86	354.91	0.729	13.36	82.82	0.039	0.772	3.36	9.708	0.708	14.08	65.64	1
2. Kaitiaki	10.80	35.87	1.06	5.511	6.800	6.51	21.61	60.03	989.05	7.531	82.03	85.78	0.331	3.61	3.02	7.892	0.708	14.08	204.12	2
3. Murchison	21.30	113.60	4.01	1.877	1.849	4.02	24.64	30.11	218.70	21.278	138.56	45.13	1.003	17.14	12.34	1.911	1.911	30.67	50.44	3
4. Uawa	13.41	56.31	2.04	25.850	27.673	6.58	27.63	1034.00		1.114(g)		81.06				21.278	1.278	138.56	121.74	4
Totals	11.49(h)	43.89(o)	1.87(e)	1.271(e)	1.271(e)	1.078	23.45(r)		307.04(f)			78.79(p)	0.140(j)		5.99(z)	1.255(l)			82.58(m)	
COMPANIES																				
1. Knott's Electric Ltd.	36.40	105.25	4.44	0.772	1.176	1.204	10.45	15.20	514.57	0.503	11.08	72.55	0.003	1.83	2.71	0.050	0.050	12.01	57.17	1
2. Wilsons (N.Z.) Portland Cement	88.45	3913.18	4.04	0.330	1.001	1.001	424.70	8.78	860.78	0.221	5.77	64.78	0.013	0.33	0.84	0.221	0.221	0.11	47.02	2
3. Westland Power Ltd.	20.44	104.43	3.11	1.450	1.894	2.015	31.39	42.20	210.14	0.887	25.80	11.03	0.385	11.22	8.54	1.272	1.272	37.08	45.77	3
Totals	37.08(h)	170.81(o)	4.08(c)	0.538(d)	0.755(e)	1.538	31.25(r)		445.99(f)	0.395(g)		66.13(p)	0.052(j)		3.40(z)	0.478(l)			49.01(m)	
GRAND TOTALS ¹	69.43(n)	222.33(o)	0.33(c)	1.107(e)			23.13(r)		469.75(f)			59.97(p)			4.30(z)				25.52(m)	
Grand totals, 1953	62.04	200.27	8.20	0.894			17.00		332.48			60.60			3.99				22.25	1953
" " " " " "	54.74	178.41	7.47	0.800			10.51		328.28			67.52			3.87				22.45	1952
" " " " " "	49.40	169.08	7.36	0.858			15.18		304.58			62.76			4.06				22.68	1951
" " " " " "	44.07	149.89	6.78	0.842			15.20		296.51			63.10			4.54				23.39	1950
" " " " " "	40.44	139.57	6.55	0.830			14.70		296.59			62.20			4.80				23.00	1949
" " " " " "	37.17	130.62	6.62	0.820			13.74		297.29			62.55			4.62				22.71	1948
" " " " " "	34.11	121.97	6.16	0.819			13.63		310.80			59.58			4.09				21.21	1947
" " " " " "	31.42	111.38	5.69	0.823			13.38		308.90			55.01			3.13				21.42	1946
" " " " " "	30.64	102.91	5.28	0.839			13.31		300.89			55.17			3.42				24.48	1945

NOTES.—¹ Returns for year ended 31 December 1953.
 sales, rates, feed-back refunds, and standby charges.
 (b) Revenue from retail sales plus bulk sales (route-miles now include service lines).
 (c) Derived from items 1 and 9, Table IX.
 (d) Derived from items 2 and 7, Table IX.
 (e) Derived from items 3 and 10, Table IX.
 (f) Derived from items 4 and 11, Table IX.
 (g) Derived from items 5 and 12, Table IX.
 (h) Derived from items 6 and 13, Table IX.
 (i) Derived from items 7 and 14, Table IX.
 (j) Derived from items 8 and 15, Table IX.
 (k) Derived from items 9 and 16, Table IX.
 (l) Derived from items 10 and 17, Table IX.
 (m) Derived from items 11 and 18, Table IX.
 (n) Derived from items 12 and 19, Table IX.
 (o) Derived from items 13 and 20, Table IX.
 (p) Derived from items 14 and 21, Table IX.
 (q) Derived from items 15 and 22, Table IX.
 (r) Derived from items 16 and 23, Table IX.
 (s) Derived from items 17 and 24, Table IX.
 (t) Derived from items 18 and 25, Table IX.
 (u) Derived from items 19 and 26, Table IX.
 (v) Derived from items 20 and 27, Table IX.
 (w) Derived from items 21 and 28, Table IX.
 (x) Derived from items 22 and 29, Table IX.
 (y) Derived from items 23 and 30, Table IX.
 (z) Derived from items 24 and 31, Table IX.
 (aa) Derived from items 25 and 32, Table IX.
 (ab) Derived from items 26 and 33, Table IX.
 (ac) Derived from items 27 and 34, Table IX.
 (ad) Derived from items 28 and 35, Table IX.
 (ae) Derived from items 29 and 36, Table IX.
 (af) Derived from items 30 and 37, Table IX.
 (ag) Derived from items 31 and 38, Table IX.
 (ah) Derived from items 32 and 39, Table IX.
 (ai) Derived from items 33 and 40, Table IX.
 (aj) Derived from items 34 and 41, Table IX.
 (ak) Derived from items 35 and 42, Table IX.
 (al) Derived from items 36 and 43, Table IX.
 (am) Derived from items 37 and 44, Table IX.
 (an) Derived from items 38 and 45, Table IX.
 (ao) Derived from items 39 and 46, Table IX.
 (ap) Derived from items 40 and 47, Table IX.
 (aq) Derived from items 41 and 48, Table IX.
 (ar) Derived from items 42 and 49, Table IX.
 (as) Derived from items 43 and 50, Table IX.
 (at) Derived from items 44 and 51, Table IX.
 (au) Derived from items 45 and 52, Table IX.
 (av) Derived from items 46 and 53, Table IX.
 (aw) Derived from items 47 and 54, Table IX.
 (ax) Derived from items 48 and 55, Table IX.
 (ay) Derived from items 49 and 56, Table IX.
 (az) Derived from items 50 and 57, Table IX.
 (ba) Derived from items 51 and 58, Table IX.
 (bb) Derived from items 52 and 59, Table IX.
 (bc) Derived from items 53 and 60, Table IX.
 (bd) Derived from items 54 and 61, Table IX.
 (be) Derived from items 55 and 62, Table IX.
 (bf) Derived from items 56 and 63, Table IX.
 (bg) Derived from items 57 and 64, Table IX.
 (bh) Derived from items 58 and 65, Table IX.
 (bi) Derived from items 59 and 66, Table IX.
 (bj) Derived from items 60 and 67, Table IX.
 (bk) Derived from items 61 and 68, Table IX.
 (bl) Derived from items 62 and 69, Table IX.
 (bm) Derived from items 63 and 70, Table IX.
 (bn) Derived from items 64 and 71, Table IX.
 (bo) Derived from items 65 and 72, Table IX.
 (bp) Derived from items 66 and 73, Table IX.
 (bq) Derived from items 67 and 74, Table IX.
 (br) Derived from items 68 and 75, Table IX.
 (bs) Derived from items 69 and 76, Table IX.
 (bt) Derived from items 70 and 77, Table IX.
 (bu) Derived from items 71 and 78, Table IX.
 (bv) Derived from items 72 and 79, Table IX.
 (bw) Derived from items 73 and 80, Table IX.
 (bx) Derived from items 74 and 81, Table IX.
 (by) Derived from items 75 and 82, Table IX.
 (bz) Derived from items 76 and 83, Table IX.
 (ca) Derived from items 77 and 84, Table IX.
 (cb) Derived from items 78 and 85, Table IX.
 (cc) Derived from items 79 and 86, Table IX.
 (cd) Derived from items 80 and 87, Table IX.
 (ce) Derived from items 81 and 88, Table IX.
 (cf) Derived from items 82 and 89, Table IX.
 (cg) Derived from items 83 and 90, Table IX.
 (ch) Derived from items 84 and 91, Table IX.
 (ci) Derived from items 85 and 92, Table IX.
 (cj) Derived from items 86 and 93, Table IX.
 (ck) Derived from items 87 and 94, Table IX.
 (cl) Derived from items 88 and 95, Table IX.
 (cm) Derived from items 89 and 96, Table IX.
 (cn) Derived from items 90 and 97, Table IX.
 (co) Derived from items 91 and 98, Table IX.
 (cp) Derived from items 92 and 99, Table IX.
 (cq) Derived from items 93 and 100, Table IX.
 (cr) Derived from items 94 and 101, Table IX.
 (cs) Derived from items 95 and 102, Table IX.
 (ct) Derived from items 96 and 103, Table IX.
 (cu) Derived from items 97 and 104, Table IX.
 (cv) Derived from items 98 and 105, Table IX.
 (cw) Derived from items 99 and 106, Table IX.
 (cx) Derived from items 100 and 107, Table IX.
 (cy) Derived from items 101 and 108, Table IX.
 (cz) Derived from items 102 and 109, Table IX.
 (ca) Derived from items 103 and 110, Table IX.
 (cb) Derived from items 104 and 111, Table IX.
 (cc) Derived from items 105 and 112, Table IX.
 (cd) Derived from items 106 and 113, Table IX.
 (ce) Derived from items 107 and 114, Table IX.
 (cf) Derived from items 108 and 115, Table IX.
 (cg) Derived from items 109 and 116, Table IX.
 (ch) Derived from items 110 and 117, Table IX.
 (ci) Derived from items 111 and 118, Table IX.
 (cj) Derived from items 112 and 119, Table IX.
 (ck) Derived from items 113 and 120, Table IX.
 (cl) Derived from items 114 and 121, Table IX.
 (cm) Derived from items 115 and 122, Table IX.
 (cn) Derived from items 116 and 123, Table IX.
 (co) Derived from items 117 and 124, Table IX.
 (cp) Derived from items 118 and 125, Table IX.
 (cq) Derived from items 119 and 126, Table IX.
 (cr) Derived from items 120 and 127, Table IX.
 (cs) Derived from items 121 and 128, Table IX.
 (ct) Derived from items 122 and 129, Table IX.
 (cu) Derived from items 123 and 130, Table IX.
 (cv) Derived from items 124 and 131, Table IX.
 (cw) Derived from items 125 and 132, Table IX.
 (cx) Derived from items 126 and 133, Table IX.
 (cy) Derived from items 127 and 134, Table IX.
 (cz) Derived from items 128 and 135, Table IX.
 (ca) Derived from items 129 and 136, Table IX.
 (cb) Derived from items 130 and 137, Table IX.
 (cc) Derived from items 131 and 138, Table IX.
 (cd) Derived from items 132 and 139, Table IX.
 (ce) Derived from items 133 and 140, Table IX.
 (cf) Derived from items 134 and 141, Table IX.
 (cg) Derived from items 135 and 142, Table IX.
 (ch) Derived from items 136 and 143, Table IX.
 (ci) Derived from items 137 and 144, Table IX.
 (cj) Derived from items 138 and 145, Table IX.
 (ck) Derived from items 139 and 146, Table IX.
 (cl) Derived from items 140 and 147, Table IX.
 (cm) Derived from items 141 and 148, Table IX.
 (cn) Derived from items 142 and 149, Table IX.
 (co) Derived from items 143 and 150, Table IX.
 (cp) Derived from items 144 and 151, Table IX.
 (cq) Derived from items 145 and 152, Table IX.
 (cr) Derived from items 146 and 153, Table IX.
 (cs) Derived from items 147 and 154, Table IX.
 (ct) Derived from items 148 and 155, Table IX.
 (cu) Derived from items 149 and 156, Table IX.
 (cv) Derived from items 150 and 157, Table IX.
 (cw) Derived from items 151 and 158, Table IX.
 (cx) Derived from items 152 and 159, Table IX.
 (cy) Derived from items 153 and 160, Table IX.
 (cz) Derived from items 154 and 161, Table IX.
 (ca) Derived from items 155 and 162, Table IX.
 (cb) Derived from items 156 and 163, Table IX.
 (cc) Derived from items 157 and 164, Table IX.
 (cd) Derived from items 158 and 165, Table IX.
 (ce) Derived from items 159 and 166, Table IX.
 (cf) Derived from items 160 and 167, Table IX.
 (cg) Derived from items 161 and 168, Table IX.
 (ch) Derived from items 162 and 169, Table IX.
 (ci) Derived from items 163 and 170, Table IX.
 (cj) Derived from items 164 and 171, Table IX.
 (ck) Derived from items 165 and 172, Table IX.
 (cl) Derived from items 166 and 173, Table IX.
 (cm) Derived from items 167 and 174, Table IX.
 (cn) Derived from items 168 and 175, Table IX.
 (co) Derived from items 169 and 176, Table IX.
 (cp) Derived from items 170 and 177, Table IX.
 (cq) Derived from items 171 and 178, Table IX.
 (cr) Derived from items 172 and 179, Table IX.
 (cs) Derived from items 173 and 180, Table IX.
 (ct) Derived from items 174 and 181, Table IX.
 (cu) Derived from items 175 and 182, Table IX.
 (cv) Derived from items 176 and 183, Table IX.
 (cw) Derived from items 177 and 184, Table IX.
 (cx) Derived from items 178 and 185, Table IX.
 (cy) Derived from items 179 and 186, Table IX.
 (cz) Derived from items 180 and 187, Table IX.
 (ca) Derived from items 181 and 188, Table IX.
 (cb) Derived from items 182 and 189, Table IX.
 (cc) Derived from items 183 and 190, Table IX.
 (cd) Derived from items 184 and 191, Table IX.
 (ce) Derived from items 185 and 192, Table IX.
 (cf) Derived from items 186 and 193, Table IX.
 (cg) Derived from items 187 and 194, Table IX.
 (ch) Derived from items 188 and 195, Table IX.
 (ci) Derived from items 189 and 196, Table IX.
 (cj) Derived from items 190 and 197, Table IX.
 (ck) Derived from items 191 and 198, Table IX.
 (cl) Derived from items 192 and 199, Table IX.
 (cm) Derived from items 193 and 200, Table IX.
 (cn) Derived from items 194 and 201, Table IX.
 (co) Derived from items 195 and 202, Table IX.
 (cp) Derived from items 196 and 203, Table IX.
 (cq) Derived from items 197 and 204, Table IX.
 (cr) Derived from items 198 and 205, Table IX.
 (cs) Derived from items 199 and 206, Table IX.
 (ct) Derived from items 200 and 207, Table IX.
 (cu) Derived from items 201 and 208, Table IX.
 (cv) Derived from items 202 and 209, Table IX.
 (cw) Derived from items 203 and 210, Table IX.
 (cx) Derived from items 204 and 211, Table IX.
 (cy) Derived from items 205 and 212, Table IX.
 (cz) Derived from items 206 and 213, Table IX.
 (ca) Derived from items 207 and 214, Table IX.
 (cb) Derived from items 208 and 215, Table IX.
 (cc) Derived from items 209 and 216, Table IX.
 (cd) Derived from items 210 and 217, Table IX.
 (ce) Derived from items 211 and 218, Table IX.
 (cf) Derived from items 212 and 219, Table IX.
 (cg) Derived from items 213 and 220, Table IX.
 (ch) Derived from items 214 and 221, Table IX.
 (ci) Derived from items 215 and 222, Table IX.
 (cj) Derived from items 216 and 223, Table IX.
 (ck) Derived from items 217 and 224, Table IX.
 (cl) Derived from items 218 and 225, Table IX.
 (cm) Derived from items 219 and 226, Table IX.
 (cn) Derived from items 220 and 227, Table IX.
 (co) Derived from items 221 and 228, Table IX.
 (cp) Derived from items 222 and 229, Table IX.
 (cq) Derived from items 223 and 230, Table IX.
 (cr) Derived from items 224 and 231, Table IX.
 (cs) Derived from items 225 and 232, Table IX.
 (ct) Derived from items 226 and 233, Table IX.
 (cu) Derived from items 227 and 234, Table IX.
 (cv) Derived from items 228 and 235, Table IX.
 (cw) Derived from items 229 and 236, Table IX.
 (cx) Derived from items 230 and 237, Table IX.
 (cy) Derived from items 231 and 238, Table IX.
 (cz) Derived from items 232 and 239, Table IX.
 (ca) Derived from items 233 and 240, Table IX.
 (cb) Derived from items 234 and 241, Table IX.
 (cc) Derived from items 235 and 242, Table IX.
 (cd) Derived from items 236 and 243, Table IX.
 (ce) Derived from items 237 and 244, Table IX.
 (cf) Derived from items 238 and 245, Table IX.
 (cg) Derived from items 239 and 246, Table IX.
 (ch) Derived from items 240 and 247, Table IX.
 (ci) Derived from items 241 and 248, Table IX.
 (cj) Derived from items 242 and 249, Table IX.
 (ck) Derived from items 243 and 250, Table IX.
 (cl) Derived from items 244 and 251, Table IX.
 (cm) Derived from items 245 and 252, Table IX.
 (cn) Derived from items 246 and 253, Table IX.
 (co) Derived from items 247 and 254, Table IX.
 (cp) Derived from items 248 and 255, Table IX.
 (cq) Derived from items 249 and 256, Table IX.
 (cr) Derived from items 250 and 257, Table IX.
 (cs) Derived from items 251 and 258, Table IX.
 (ct) Derived from items 252 and 259, Table IX.
 (cu) Derived from items 253 and 260, Table IX.
 (cv) Derived from items 254 and 261, Table IX.
 (cw) Derived from items 255 and 262, Table IX.
 (cx) Derived from items 256 and 263, Table IX.
 (cy) Derived from items 257 and 264, Table IX.
 (cz) Derived from items 258 and 265, Table IX.
 (ca) Derived from items 259 and 266, Table IX.
 (cb) Derived from items 260 and 267, Table IX.
 (cc) Derived from items 261 and 268, Table IX.
 (cd) Derived from items 262 and 269, Table IX.
 (ce) Derived from items 263 and 270, Table IX.
 (cf) Derived from items 264 and 271, Table IX.
 (cg) Derived from items 265 and 272, Table IX.
 (ch) Derived from items 266 and 273, Table IX.
 (ci) Derived from items 267 and 274, Table IX.
 (cj) Derived from items 268 and 275, Table IX.
 (ck) Derived from items 269 and 276, Table IX.
 (cl) Derived from items 270 and 277, Table IX.
 (cm) Derived from items 271 and 278, Table IX.
 (cn) Derived from items 272 and 279, Table IX.
 (co) Derived from items 273 and 280, Table IX.
 (cp) Derived from items 274 and 281, Table IX.
 (cq) Derived from items 275 and 282, Table IX.
 (cr) Derived from items 276 and 283, Table IX.
 (cs) Derived from items 277 and 284, Table IX.
 (ct) Derived from items 278 and 285, Table IX.
 (cu) Derived from items 279 and 286, Table IX.
 (cv) Derived from items 280 and 287, Table IX.
 (cw) Derived from items 281 and 288, Table IX.
 (cx) Derived from items 282 and 289, Table IX.
 (cy) Derived from items 283 and 290, Table IX.
 (cz) Derived from items 284 and 291, Table IX.
 (ca) Derived from items 285 and 292, Table IX.
 (cb) Derived from items 286 and 293, Table IX.
 (cc) Derived from items 287 and 294, Table IX.
 (cd) Derived from items 288 and 295, Table IX.
 (ce) Derived from items 289 and 296, Table IX.
 (cf) Derived from items 290 and 297, Table IX.
 (cg) Derived from items 291 and 298, Table IX.
 (ch) Derived from items 292 and 299, Table IX.
 (ci) Derived from items 293 and 300, Table IX.
 (cj) Derived from items 294 and 301, Table IX.
 (ck) Derived from items 295 and 302, Table IX.
 (cl) Derived from items 296 and 303, Table IX.
 (cm) Derived from items 297 and 304, Table IX.
 (cn) Derived from items 298 and 305, Table IX.
 (co) Derived from items 299 and 306, Table IX.
 (cp) Derived from items 300 and 307, Table IX.
 (cq) Derived from items 301 and 308, Table IX.
 (cr) Derived from items 302 and 309, Table IX.
 (cs) Derived from items 303 and 310, Table IX.
 (ct) Derived from items 304 and 311, Table IX.
 (cu) Derived from items 305 and 312, Table IX.
 (cv) Derived from items 306 and 313, Table IX.
 (cw) Derived from items 307 and 314, Table IX.
 (cx) Derived from items 308 and 315, Table IX.
 (cy) Derived from items 309 and 316, Table IX.
 (cz) Derived from items 310 and 317, Table IX.
 (ca) Derived from items 311 and 318, Table IX.
 (cb) Derived from items 312 and 319, Table IX.
 (cc) Derived from items 313 and 320, Table IX.
 (cd) Derived from items 314 and 321, Table IX.
 (ce) Derived from items 315 and 322, Table IX.
 (cf) Derived from items 316 and 323, Table IX.
 (cg) Derived from items 317 and 324, Table IX.
 (ch) Derived from items 318 and 325, Table IX.
 (ci) Derived from items 319 and 326, Table IX.
 (cj) Derived from items 320 and 327, Table IX.
 (ck) Derived from items 321 and 328, Table IX.
 (cl) Derived from items 322 and 329, Table IX.
 (cm) Derived from items 323 and 330, Table IX.
 (cn) Derived from items 324 and 331, Table IX.
 (co) Derived from items 325 and 332, Table IX.
 (cp) Derived from items 326 and 333, Table IX.
 (cq) Derived from items 327 and 334, Table IX.
 (cr) Derived from items 328 and 335, Table IX.
 (cs) Derived from items 329 and 336, Table IX.
 (ct) Derived from items 330 and 337, Table IX.
 (cu) Derived from items 331 and 338, Table IX.
 (cv) Derived from items 332 and 339, Table IX.
 (cw) Derived from items 333 and 340, Table IX.
 (cx) Derived from items 334 and 341, Table IX.
 (cy) Derived from items 335 and 342, Table IX.
 (cz) Derived from items 336 and 343, Table IX.
 (ca) Derived from

TABLE VIII—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1954

Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers			Ranges			Water-heaters			Milkling-machines		Consumers Per Route-mile of Line (1)	No.
			Domestic	Commercial and Industrial	Total	Number (1)	Total Kilowatts	Per Cent Ranges to Domestic Consumers	Number	Total Kilowatts	Per Cent Number of Water-heaters to Total of Consumers	Number	H.P.		
STATE HYDRO-ELECTRIC DEPARTMENT															
1. North Island	52,870	31.24	566	12	568	571	3,410	102.70	697	705	122.71	189	180	0.22	1
2. South Island	52,870	..	14,184	2,335	16,519	5,883	36,909	41.48	5,091	6,369	30.82	2,137	2,926	3.69	2
Totals ..	52,870	..	14,740	2,347	17,087	6,454	40,319	43.79	5,788	7,074	33.87	2,326	3,106	2.43	
Power Boards															
1. Ashburton	20,460	32.42	5,869	765	6,634	3,779	14,253	64.39	4,517	8,967	68.09	309	227	5.01	1
2. Auckland	301,810	31.47	81,290	13,697	94,987	49,275	354,000	60.62	55,805	42,500	58.75	1,130	1,130	58.57	2
3. Banks Peninsula	3,800	41.92	1,505	88	1,593	792	4,985	52.62	802	1,263	50.35	219	176	6.28	3
4. Bay of Islands	34,740	21.29	6,443	952	7,395	3,656	23,195	56.74	4,404	3,433	59.55	1,011	2,432	4.32	4
5. Bay of Plenty	21,600	18.90	3,502	580	4,082	2,148	13,086	61.34	2,924	2,447	71.63	944	1,423	10.58	5
6. Buller	10,550	21.80	1,838	462	2,300	52	397	2.83	106	91	4.61	68	48	29.49	6
7. Cambridge	8,240	31.14	2,267	299	2,566	1,224	8,118	53.99	1,867	1,995	72.76	502	606	10.32	7
8. Central Hawke's Bay	12,260	28.75	2,988	537	3,525	2,313	14,724	77.41	1,959	2,219	55.57	318	309	7.38	8
9. Central Waikato	40,670	31.94	11,814	1,175	12,989	5,882	38,165	49.79	8,183	6,686	63.00	2,404	3,784	4.08	9
10. Dannevirke	12,810	30.94	3,356	608	3,964	1,858	12,168	55.36	1,951	1,831	49.22	589	699	8.75	10
11. Franklin	26,760	31.75	7,626	870	8,496	4,618	27,965	60.56	7,431	5,566	87.46	2,698	3,623	8.99	11
12. Golden Bay	4,260	28.78	1,082	144	1,226	491	2,722	45.38	622	523	50.73	236	245	5.76	12
13. Grey	20,890	33.24	5,966	978	6,944	2,412	15,838	40.43	1,887	2,081	72.17	116	126	18.07	13
14. Hawke's Bay	46,590	32.14	12,940	2,036	14,976	9,657	68,002	74.63	9,306	9,378	62.14	868	548	14.11	14
15. Horowhenua	27,490	44.83	10,129	2,195	12,324	5,598	36,732	55.27	6,019	4,416	48.84	1,164	1,164	12.20	15
16. Hutt Valley	103,570	28.80	27,279	2,554	29,833	18,119	123,517	66.42	19,264	14,688	64.57	1,854	1,190	30.48	16
17. King Country	4,770	24.65	1,045	131	1,176	373	2,059	35.69	290	448	24.66	44	31	4.27	17
18. Manawatu-Oroua	26,550	28.77	6,913	720	7,633	4,122	27,909	59.63	4,906	3,611	64.27	2,100	2,661	9.33	18
19. Marlborough	21,140	29.39	5,085	916	6,001	1,718	12,656	33.79	1,487	1,243	24.78	338	14.55	20	
20. North Auckland	31,020	30.67	8,630	885	9,515	4,884	28,986	56.59	7,108	5,661	74.70	2,911	4,004	4.05	21
21. North Canterbury	16,570	34.50	5,197	520	5,717	2,632	15,755	50.64	2,656	3,810	46.46	517	359	4.88	22
22. Otago	27,270	30.25	6,997	1,253	8,250	1,013	6,312	67.09	1,459	1,307	82.43	444	1,073	7.07	23
23. Poverty Bay	38,330	25.33	8,001	858	8,859	1,843	13,223	26.34	1,894	2,602	22.96	289	345	5.73	24
24. South Canterbury	17,510	31.04	4,522	385	4,907	1,046	5,892	38.61	1,258	1,302	38.90	69	60	4.64	25
25. Springs Eilesmore	18,080	29.14	3,958	206	4,164	4,592	34,792	57.39	4,678	4,892	48.18	459	399	13.46	26
26. Taranaki	14,600	31.55	2,499	269	2,768	2,505	10,870	30.83	2,392	3,739	31.23	441	328	6.21	27
27. Tairāra	23,410	31.95	6,820	659	7,479	2,895	16,353	52.96	3,651	2,643	67.18	1,094	1,770	12.76	28
28. Te Awamutu	17,220	27.64	3,929	494	4,423	2,917	18,440	63.94	3,140	3,681	63.47	1,784	2,970	9.56	29
29. Teviot	54,260	12.96	4,690	114	4,804	3,225	16,191	84.63	3,303	3,503	69.39	410	1,875	10.06	30
30. Thames Valley	54,260	31.21	15,923	1,014	16,937	8,480	60,929	53.26	11,786	9,933	69.59	4,525	7,242	7.53	31
31.															
32.															
33.															
34.															
35.															

(For notes, see page 17.)

TABLE VIII.—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1954—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 (%)	No.
			Domestic	Commercial and Industrial	Total	Number (1)	Total Kilo-watts	Ratio, Number of Ranges to Domestic Consumers	Number	Total Kilo-watts	Ratio, Number of Water-heaters to Total Number of Consumers	Number			Horse-power
POWER BOARDS—continued														
36. Waimea	23,400	30.18	6,033	1,048	7,081	3,965	22,905	4,274	4,253	60.36	641	676	36	
37. Wairarapa	29,740	29.49	7,370	1,400	8,770	4,869	20,417	4,886	5,062	55.71	1,248	1,669	37	
38. Wairere	4,120	24.64	867	148	1,015	572	4,004	718	568	70.74	288	323	38	
39. Wairori	8,040	15.76	1,151	116	1,267	463	3,041	586	498	46.25	157	195	39	
40. Waitaki	19,940	34.43	5,763	1,103	6,866	3,601	23,297	3,608	3,901	52.55	193	127	40	
41. Waitomata	90,010	38.08	30,205	4,069	34,274	20,103	132,635	19,787	17,573	57.73	4,000	2,578	41	
42. Waitomo	13,960	25.62	2,991	571	3,562	2,024	13,566	2,252	2,035	63.22	674	930	42	
43. Wanganui-Rangitikei	56,740	29.31	14,267	2,365	16,632	6,812	45,734	7,607	6,568	45.74	1,001	1,241	43	
Totals	1,322,060	30.51	352,016	51,296	403,312	206,094	1,371,161	232,459	207,176	57.64	40,248	50,835	11.25	
CITY COUNCILS														
1. Christchurch	163,650	33.00	47,157	6,850	54,007	33,044	242,879	33,619	29,299	62.25	205	162	1	
2. Dunedin	102,370	32.32	29,317	3,770	33,087	11,517	71,304	17,391	22,264	52.56	300	401	2	
3. Hamilton	25,300	31.54	6,195	1,814	8,009	2,141	13,730	3,051	1,982	38.09	..	..	3
4. Invercargill	28,270	32.72	7,085	1,554	8,639	1,402	7,353	1,398	1,634	15.12	..	..	4
5. Napier	17,320	28.69	4,193	776	4,969	1,649	12,974	2,305	1,917	46.39	..	..	5
6. Nelson	16,390	31.74	4,396	806	5,202	1,331	11,330	2,751	1,882	52.88	..	..	6
7. New Plymouth	32,650	31.10	8,855	1,300	10,155	6,054	42,378	7,062	5,834	69.54	977	1,604	7	
8. Palmerston North	33,020	32.06	9,344	1,538	10,882	4,925	30,372	6,053	4,139	55.62	..	..	8
9. Timaru	21,320	31.32	5,481	1,196	6,677	2,721	18,379	2,922	4,716	43.76	..	..	9
10. Wellington	122,860	34.75	34,635	8,175	42,700	8,723	61,061	17,481	20,977	40.94	32	80	10	
Totals	563,240	32.83	157,148	27,789	184,937	73,507	511,760	94,033	95,644	50.35	1,514	2,247	46.23	
BOROUGH COUNCILS														
1. Bluff	2,310	33.38	632	139	771	208	930	130	116	16.86	..	..	1
2. Inglewood	1,610	38.63	459	163	622	251	1,560	240	258	38.59	15	14	2	
3. Kaipoi	2,360	35.97	711	188	849	382	2,571	341	381	40.16	..	..	3
4. Lyttelton	3,470	32.74	948	188	1,136	385	2,645	431	531	37.94	6	6	4	
5. Ohakune	2,570	29.22	558	193	751	116	835	175	155	23.30	37	41	5	
6. Patea	2,320	30.65	569	142	711	394	2,590	382	404	53.73	39	43	6	
7. Raetihi	2,450	23.10	449	117	566	72	555	139	122	24.56	51	52	7	
8. Rangiora	3,020	38.08	900	160	1,060	501	3,409	639	600	55.57	..	..	8
9. Riccarton	8,480	29.04	2,337	126	2,463	1,473	9,868	1,697	1,392	68.90	..	..	9
10. Rotorua Electric Supply	28,190	32.07	6,126	1,311	7,437	2,562	17,391	2,921	2,446	39.28	348	408	10	
11. Stratford	4,890	32.27	1,222	356	1,578	733	5,527	716	683	45.37	20	13	11	
12. Taihape	2,380	33.66	591	210	801	200	1,413	202	206	25.22	2	2	12	
13. Taumarunui	3,350	30.25	1,042	273	1,315	284	1,949	290	214	22.05	15	14	13	
14. Taupo	2,690	25.23	1,580	90	1,670	69	483	43	41	6.32	..	..	14
15. Tauranga	6,630	35.60	1,765	566	2,360	1,508	10,141	1,639	905	69.45	..	..	15
16. Te Aroha	2,800	38.21	784	296	1,070	438	3,068	464	352	43.36	14	24	16	

(For notes, see page 17.)

TABLE VIII—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1954—continued

Supply Authorities	Population Included in Area of Supply	Ratio of Consumers to Population in Area of Supply	Consumers			Ranges			Water-heaters			Milkling-machines		Consumers Per Route-mile of Line (*)	No.
			Domestic	Commercial and Industrial	Total	Number (1)	Total Kilowatts	Ratio, Number of Ranges to Domestic Consumers	Number	Total Kilowatts	Ratio, Number of Water-heaters to Total Consumers	Number	H.P.		
BOROUGH COUNCILS—continued															
17. Thames ..	4,880	34.62	1,355	338	1,693	768	4,601	56.68	678	590	40.05	3	86.39	17	
18. Waikato ..	3,620	32.10	871	291	1,162	660	4,443	75.77	646	419	55.59	..	41.50	18	
19. Waikare ..	3,490	31.06	899	185	1,084	437	2,878	48.61	450	336	41.51	26	62.21	19	
20. Whakatane ..	4,590	31.15	1,102	328	1,430	733	4,528	66.52	761	465	53.22	16	30.75	20	
21. Whangarei ..	13,250	30.75	3,250	815	4,074	2,066	12,555	63.39	1,842	1,349	45.21	..	45.63	21	
Totals ..	104,360	32.29	27,289	6,414	33,703	14,240	93,940	52.18	14,826	12,031	54.33	592	31.29		
TOWN BOARDS															
1. Kaponga ..	1,870	29.14	454	91	545	234	1,586	51.54	409	353	75.05	197	10.00	1	
2. Mangaweka ..	380	40.00	104	48	152	52	312	50.00	67	52	44.08	11	13.22	2	
Totals ..	2,250	30.98	558	139	697	286	1,898	51.25	476	405	68.29	208	10.56		
COUNTY COUNCILS															
1. Heathcote ..	4,590	27.21	1,236	13	1,249	928	5,530	75.08	1,094	1,193	87.59	9	15.09	1	
2. Kaipara ..	1,660	30.12	584	116	700	61	1,75	15.89	16	28	3.20	5	43.48	2	
3. Murchison ..	1,350	18.74	203	50	253	59	374	29.06	90	74	35.57	35	8.88	3	
4. Otago ..	550	23.82	114	17	131	..	..	..	..	..	..	..	37.43	4
Totals ..	8,150	26.17	1,937	196	2,133	1,048	6,079	54.10	1,200	1,295	56.26	49	10.93		
COMPANIES															
1. Kanieri Electric Ltd. 2	3,210	34.58	882	228	1,110	356	2,470	40.36	308	317	27.75	..	38.60	1	
2. Wilsons (N.Z.) Portland Cement	1,460	2.26	31	2	33	37	242	119.35	78	59	236.36	22	1.06	2	
3. Westland Power Ltd. 3	3,910	19.57	691	74	765	141	929	20.41	191	198	24.97	136	6.44	3	
Totals ..	8,580	22.24	1,604	304	1,908	534	3,641	33.29	577	574	30.24	168	10.66		
GRAND TOTALS	2,061,510	31.33	555,292	88,485	643,777	302,163	2,028,798	54.41	349,359	324,199	54.27	46,095	13.33		

NOTES.—(1) Only ranges requiring permits for connection to electric supply, therefore not comparable with statistics published prior to 1948. (2) Route-miles of lines now include service lines, therefore not comparable with statistics published prior to 1948. (3) Returns for year ended 31 December 1953.

10 MAR 1949

TABLE IX—SUMMARY OF TOTALS FROM TABLES IV, V, VI, AND VIII

No.	Item	State Hydro-electric Department	Electric-power Boards	Other Local Authorities						Total	Companies	Total, all Supply Authorities	No.
				City Councils	Borough Councils	Town Boards	County Councils	Number	£(N.Z.)				
1	Population in area of supply	52,870	Number 1,322,060	Number 563,240	Number 104,360	Number 2,250	Number 8,150	Number 678,000	Number 8,580	Number 2,061,510	1		
2	Number of consumers	17,987	463,312	184,937	33,763	697	2,133	221,470	1,908	643,777	2		
3	Units generated	3,755,607,668	81,425,277	117,687,375	29,576,333	..	1,841,752	149,105,460	43,352,279 ¹	4,029,490,684	3		
4	Units sold (retail)	125,585,563	2,007,934,096	940,283,635	122,217,533	3,452,958	9,447,290	1,075,401,416	18,958,387	3,227,879,462	4		
5	Units sold (bulk plus retail)	3,420,781,928	2,217,421,577	940,986,119	128,435,248	3,452,958	9,447,290	1,082,301,615	43,746,403 ²	..	5		
6	Route-miles of lines (including service lines)	7,020	35,836	4,000	1,077	66	126	5,369	179	48,304	6		
7	Capital outlay	£(N.Z.) 97,754,973	£(N.Z.) 31,965,827	£(N.Z.) 11,168,333	£(N.Z.) 1,779,637	£(N.Z.) 44,514	£(N.Z.) 93,610	£(N.Z.) 13,086,084	£(N.Z.) 325,898	£(N.Z.) 143,132,792	7		
8	Capital outlay on transmission and distribution system ³	36,199,192	31,002,108	8,520,364	1,471,484	44,048	59,818	10,095,714	128,753	77,425,767	8		
9	Revenue (retail sales)	..	9,695,317	3,791,281	680,966	22,343	50,027	4,544,617	59,618	14,891,478	9		
10	Revenue (bulk sales)	..	506,139	882	6,544	..	..	7,426	20,214	7,727,563	10
11	Revenue (retail plus bulk sales)	..	10,201,456	3,792,163	687,510	22,343	50,027	4,552,043	79,832	22,691,041	11		
12	Gross revenue (excluding rates)	..	10,486,614	3,850,844	711,438	22,985	57,488	4,742,755	80,416	23,162,370	12		
13	Gross revenue (less revenue from bulk sales, feed back, and stand-by charges)	..	9,876,703	3,861,782	695,372	22,985	57,488	4,637,627	60,202	15,233,333	13		
14	Working costs (including costs of generating feed back)	..	7,605,302	3,128,795	479,155	16,189	45,292	3,669,431	53,182	13,890,345 ⁴	14		
15	Working costs (excluding costs of generating feed back)	..	7,569,769	3,082,181	474,377	16,189	43,869	3,616,616	53,182	13,600,022	15		
16	Capital charges	..	1,854,698	582,668	99,077	1,768	689,039	689,039	11,076	6,160,870	16		
17	Total costs (including costs of generating feed back)	..	9,460,000	3,711,463	578,232	17,957	50,818	4,358,470	64,258	20,051,215 ⁵	17		
18	Total costs (excluding costs of generating feed back)	..	9,424,467	3,664,849	573,454	17,957	49,395	4,305,655	64,258	19,670,892	18		

NOTES.—¹ Includes generation by sundry private plants (see Table V). ² Includes bulk sales by sundry private plants (see Table V). ³ Includes plant, stocks, motor-vehicles, and tools. Charge £518,697 (part-paid) see Table I.A. ⁴ Includes Supply Authorities' costs of generating feed back units and S.H.D. cost of purchase of these units from Supply Authorities. ⁵ Includes Loan Redemption Statutory

TABLE X—STATISTICS RELATING TO ELECTRICIANS REGISTRATION BOARD FOR YEAR ENDED 31 MARCH 1954

(The figures in parenthesis are for the previous year; registrations for year ended 31 March 1954 are under the Electricians Act 1952 which came into force on 1 April 1953)

1. Number of Board Meetings: 25 (13).

2. Registrations—

	During Year	Total	Current
Inspectors	29 (39)	469 (1,130)	469 (479)
Electricians	112 (287)	5,173 (6,696)	5,173 (5,850)
Electrical servicemen	17 (40)	198 (371)	198 (335)
Radio servicemen	45 (43)	493 (556)	493 (556)
Limited registrations	19 ¹ (13)	750 (1,353)	750 (890)
Provisional licences	311 ² (169)	311 (1,636)	.. (..)

3. Examinations³—

	Candidates	Passed, Per Cent.	Highest Marks
Electricians—			
Written	575 (352)	42 (60)	91 (98)
Practical	494 (307)	67 (64)	94 (94)
Servicemen—			
Written	184 (175)	50 (62)	98 (98)
Practical	164 (118)	66 (40)	90 (91)

4. Defective work reports, 13 (18); endorsements made, 1 (6); endorsements removed, 7 (nil).

5. Breach of Act reports, 38 (60); prosecutions authorized, 30 (50).

NOTES.—1. Includes: 14 N.Z. Broadcasting Service registrations; 1 servicing calculating machines and like office appliances; 1 assembling and testing Shacklock ranges; 2 replacement of fuse-links, earthing appliances connections and replacement of flexible cords; 1 cinematograph operator.
2. Of these, 31 were issued to apprentices.
3. One examination only was held last year.