

# ANNUAL STATISTICS IN RELATION TO HYDRO-ELECTRIC DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1951

## GENERAL MANAGER'S REPORT

For full text of the above report, refer to State Hydro-electric Statement, 1951, Appendix A, pages 5 to 31 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, 1950-51

		1951.	1950.	Increase or Decrease.
(a) Installed generating-capacity (main stations)	kW.	589,901	590,046	-145
(b) Installed generating-capacity (standby)	kW.	85,443	89,430	-3,887
(c) Total connected load (excluding bulk supply)	kW.	4,949,007	4,560,933	+388,074
(d) Consumers	No.	576,325	554,554	+21,771
(e) Units sold per head of total population	No.	1,267	1,256	+11
(f) Units sold per consumer	No.	4,245	4,335	-90
(g) Route-miles of main, distribution and service lines	R.M.	42,165	40,519	+1,646
(h) Consumers per route-mile of line (including service lines)	No.	13.67	13.69	-0.02
(i) Sales (retail) per route-mile of line (including service lines)	Units	58,024	59,325	-1,301
(j) Electrical fires reported	No.	37	30	+7
(k) Electrical accidents reported	No.	55	54	+1
		(15 fatal)	(15 fatal)	..
(l) Electric-ranges installed	No.	241,433	221,181	+20,302
(m) Electric water-heaters installed	No.	278,442	256,201	+22,241
(n) Electric milking-machines installed	No.	40,204	39,738	+1,466

### B. Summarized Results of Operations for the Year ended 31 March 1951

Item		Water.	Steam.	Gas.	OIL.	Total.
1. Number of main stations	No.	24			2	26
2. Installed capacity (main plant)	kW.	589,509			392	589,901
3. Number of standby plants	No.	17	6		16	39
4. Installed capacity (standby plant)	kW.	8,298	57,762		19,383	85,443
5. Units generated	No.	2,863,896,500	203,523,938		29,270,695	3,096,696,189
6. Units sold to consumers						2,446,572,424
7. Percentage of non-productive units						20.99%
8. Number of consumers						576,325
9. Connected load (excluding bulk supply)						4,949,007
10. Total operative capital (including distribution systems and standby plant)						£94,330,810
11. Total capital per kilowatt installed (including distribution systems, &c)						£139.06
12. Annual working-costs (excluding cost of power purchased in bulk)						£4,572,101
13. Annual working-cost per unit under item 6						0.448d.
14. Annual capital cost (interest, sinking fund, and depreciation, &c)						£3,827,481
15. Annual capital cost per unit under item 6						0.375d.
16. Annual capital cost as a percentage of capital						4.057%
17. Total annual costs (item 12 plus item 14)						£8,399,582
18. Total annual cost per unit under item 6						0.824d.
19. Total annual revenue (from retail sale of electricity)						£8,751,267
20. Average revenue per unit (from items 19 and 6)						0.858d.
21. Gross revenue (excluding rates and bulk sales)						£9,370,473
22. Net profit (item 21 less item 17)						£970,891
23. Ratio of working-costs to gross revenue (item 12 and item 21)						48.79%

### Tables

For reasons of economy in paper, the usual number of tables is not being published for the year ended 31 March 1951, 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 X—Results of Generation, Distribution, &c.
Table II—Government System : Analysis of Capital Outlay.	Table XI—Financial Results of Operation, &c.
Table III—Government System : Working-costs.	Table XIII—Averages derived from Tables IX, X, and XI.
Table IX—Generating Plants, Voltages, Route-miles of Lines, &c.	Table XIV—Populations, Consumers, Ranges, Water-heaters, and Milking-machines.
	Table XVII—Electrical Wiremen's Registration Board Statistics.

TABLE I—SUMMARY OF FINANCIAL AND OPERATING STATISTICS FOR GOVERNMENT ELECTRIC-POWER SYSTEM  
THE YEAR ENDED 31 MARCH 1951

NOTE.—“North Island” includes Aiapuni, Karapiro, Mangahao, and Waikaremoana main stations and King's Wharf, Evi and Penrose standby stations, all interconnected. “South Island” includes Coleridge, Waitaki, Monowai, Arnold (Kaime), Highbank main stations and Dobson standby station, all interconnected; also Cobb main station and Stoke standby station interconnected.

### A. Financial

	£	£		
Capital outlay—			Net profit for year	31
Assets in operation	36,190,298		Transfer from General Reserve	7
Assets not in operation	23,607,815		Total	40
		59,797,913		
Total capital invested—including stocks of material, plant, motor-vehicles and tools		61,777,291	Allocation of profits—	
Revenue for year		4,216,436	Taxation reserve	1
Working costs		2,367,591	Loan redemption fund	33
Capital charges—			General reserve	
Interest		1,187,533	Total	44
Depreciation		337,110		
Total		1,524,643	Balances at end of year—	
Total costs for year		3,892,234	Depreciation reserve	5,37
			Loan redemption fund	4,52
			Taxation reserve	1
			General reserve	1

### B. Operating Results

	1950-51		1950	
Maximum load (kilowatts)—			Revenue—	
North Island	435,100		Per kW	£6 8
South Island	180,586		Per unit output	0 3
Total maximum load	*615,686		Per unit distributed	0 3
			Per unit sold	0 3
Average load (kilowatts)—			Working costs—	
North Island	228,293		Per kW	£3 8
South Island	107,607		Per unit output	0 1
Average load factor—	Per Cent.		Per unit distributed	0 2
North Island	52.47		Per unit sold	0 2
South Island	59.59		Capital charges—	
Units output (generated and purchased)—			(Excluding taxation and sinking fund)—	
North Island	1,909,842,727		Per kW	£2 4
South Island	942,635,894		Per unit output	0 13
Total	2,942,478,621		Per unit distributed	0 13
			Per unit sold	0 14
Units distributed—			Total costs—	
Units sold—			(Excluding taxation and sinking fund)—	
North Island	1,787,559,998		Per kW	£6 32
South Island	824,048,079		Per unit output	0 31
Total	2,612,508,077		Per unit distributed	0 35
			Per unit sold	0 35
Units unsold (used free of charge)—			Total costs—	
North Island	13,493,279		(Including taxation and sinking fund)—	
South Island	6,913,245		Per kW	£6 97
Total	20,406,524		Per unit output	0 35
			Per unit distributed	0 39
Total units distributed—			Per unit sold	0 39
North Island	1,801,053,277			
South Island	831,861,324			
Grand total	2,632,914,601			
Line Losses—			Total Costs—	
Transmission and distribution—	Units	Per Cent.	(Including taxation and sinking fund)—	
North Island	198,789,450	9.940	Per kW	£6 97
South Island	110,774,570	11.752	Per unit output	0 35
	309,564,020	10.521	Per unit distributed	0 39
			Per unit sold	0 39

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

TABLE II—ANALYSIS OF GOVERNMENT CAPITAL OUTLAY AS AT 31 MARCH 1951

North Island		South Island		Combined Totals
Hydro-electric stations—		Hydro-electric stations—		
Land, fencing and roading—	£	Land, fencing and roading—	£	£
Arapuni	120,344	Cobb River	60,543	
Karapiro	388,602	Lake Coleridge	30,938	
Maraetai	426,323	Waitaki	48,453	
Whakamaru	59,053	Lake Tekapo	19,419	
Waikaremoana (Tuai)	18,213	Arnold	1,830	
(Piripaua)	40,899	Highbank	18,614	
(Kaitawa)	26,386	Monowai	12,226	
Mangahao	74,707	Roxburgh	103,553	
	1,154,527		295,476	1,450,003
Headworks—		Headworks—		
Arapuni	1,425,601	Cobb River	1,485,955	
Karapiro	2,204,186	Lake Coleridge	551,135	
Lake Taupo Control	201,240	Waitaki	1,235,817	
Maraetai	3,871,599	Lake Tekapo	1,808,523	
Whakamaru	475,734	Lake Pukaki Control	2,051,777	
Waikaremoana (Tuai)	201,138	Arnold	108,161	
(Piripaua)	714,974	Highbank	332,000	
(Kaitawa)	1,360,113	Monowai	80,660	
Mangahao	949,430	Roxburgh	1,872,157	
	11,404,015		9,532,785	20,936,800
Station buildings and village—		Station buildings and village—		
Arapuni	505,059	Cobb River	100,157	
Karapiro	561,978	Lake Coleridge	111,166	
*Maraetai	2,063,166	Waitaki	476,006	
Whakamaru	33,692	Lake Tekapo	308,066	
Waikaremoana (Tuai)	296,019	Arnold	10,767	
(Piripaua)	97,167	Highbank	94,747	
(Kaitawa)	187,212	Monowai	49,324	
Mangahao	132,297			
	3,876,590		1,250,733	5,127,323
Generating plant and machinery—		Generating plant and machinery—		
Arapuni	1,069,415	Cobb River	141,783	
Karapiro	957,065	Lake Coleridge	248,451	
Maraetai	1,600,353	Waitaki	565,000	
Whakamaru	42,424	Lake Tekapo	416,398	
Waikaremoana (Tuai)	475,846	Arnold	26,917	
(Piripaua)	223,713	Highbank	176,482	
(Kaitawa)	326,507	Monowai	60,051	
Mangahao	252,716	Roxburgh	37,288	
	4,948,930		1,672,350	6,621,280
Fuel stations—		Fuel Stations—		
King's Wharf	427,550	Stoke	81,320	
Penrose	66,438	Dobson	175,093	
Evans Bay	295,000			
	788,988		256,413	1,045,401
Transmission and distribution—		Transmission and distribution—		
Primary distribution—		Primary distribution—		
11 kV. lines	87,393	11 kV. lines	789,063	
33 kV. lines		33 kV. lines	58,970	
50 kV. lines	596,974	50 kV. lines		
66 kV. lines		66 kV. lines	1,020,800	
110 kV. lines	3,551,654	110 kV. lines	632,456	
220 kV. lines	2,670,949	220 kV. lines	5,842	
Secondary distribution		Secondary distribution	409,608	
	6,906,970		2,916,739	9,823,709
Substations—		Substations—		
11 kV.	15,179	11 kV.	8,375	
33 kV.		33 kV.	56,708	
50 kV.	944,557	50 kV.		
66 kV.		66 kV.	733,841	
110 kV.	3,170,381	110 kV.	976,100	
220 kV.	2,444,889	220 kV.	7,825	
	6,575,006		1,782,849	8,357,855
Communications	374,447	Communications	220,009	595,446
General—		General—		
Offices, stores, land and buildings	304,267	Offices, stores, land and buildings	76,171	
Surveys and investigations of other schemes	448,038	Surveys and investigations of other schemes	134,581	
Cost of raising loans	332,293	Cost of raising loans	542,704	
Interest capitalized during construction	2,806,541	Interest capitalized during construction	1,195,492	
	3,891,139		1,948,948	5,840,087
	£39,020,621		£19,877,292	£59,797,913

\* Includes Mangakino Village and services, £1,613,899.

1951

TABLE III—GOVERNMENT OPERATING OR WORKING COSTS FOR THE YEAR ENDED 31 MARCH 1951

	Cost.	Cost per unit.	
		Generated.	Distributed.
	£	d.	d.
(a) Hydro-electric stations	285,114	0·0259	
(b) Fuel stations	687,340	1·0896	
(c) Auxiliary stations, power purchased and standby provision	500,578	0·8139	
Generated and purchased	1,473,032	0·1201	0·1343
(d) Transmission	109,754	0·0090	0·0100
(e) Communications	23,184	0·0019	0·0021
(f) Substations	186,925	0·0152	0·0170
(g) Distribution	58,106	0·0047	0·0053
(h) System operation	92,319	0·0075	0·0084
(i) Administration costs and expenses	424,271	0·0346	0·0387
	2,367,591	0·1931	0·2158

  

Units generated—	North Island	South Island.	Total.
Hydro-electric	1,753,801,174	889,679,770	2,643,480,944
Fuel	148,023,664	3,374,800	151,397,073
Purchased	98,017,889	49,581,815	147,599,704
Total	1,999,842,727	942,635,894	2,942,478,621
Units distributed	1,801,053,277	831,861,324	2,632,914,601
Units sold	1,787,559,998	824,948,079	2,612,508,077





TABLE IX—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, &C., FOR THE YEAR ENDED 31 MARCH 1951—continued

Authorities.	Source of Supply <sup>1</sup> .	Year when Supply Commenced.	Capacity of Generating Plant.				Static Head, in Feet.		Transmission.	Voltage.			Distribution Transformers.		Route Miles of Lines <sup>4</sup> .	No.
			Water.	Steam.	Oil.	Main Plant.	Standby Plant.	KW.		KVA.	Generation.	Primary Distribution.	Secondary Distribution.	Number.		
REGIONS—continued/ Electric Supply	I.	1917	370	..	..	860	120	..	380	6,000	400/230 A.C.	19	470	30	7	
	I.	1917	..	..	..	52	65	..	..	6,600	400/230 A.C.	9	1,005	16	8	
	B.	1916	62	..	..	..	..	..	..	11,000	400/230 A.C.	37	4,350	23	9	
	G.S.	1916	..	..	..	..	..	..	..	11,000	400/230 A.C.	205	9,020	244	10	
	G.N.	1901	..	..	..	..	..	..	..	6,600	400/230 A.C.	..	..	..	11	
	B.	1898	160	..	..	..	150 D.C.	..	30	6,600	400/230 A.C.	24	2,380	27	12	
	B.	1913	..	..	..	..	..	..	..	11,000	400/230 A.C.	5	800	11	13	
	G.N.	1924	425	..	..	..	500	..	25	6,600	415/240 A.C.	39	3,327	38	14	
	I. & G.N.	1915	3,440	..	..	4,300	..	..	110	3,300	400/230 A.C.	23	3,050	50	15	
	B.	1900	183	..	..	..	..	..	80	11,000	400/230 A.C.	15	1,155	43	16	
	B.	1914	..	..	..	..	160	..	600	3,300	400/230 A.C.	17	2,600	26	17	
	B.	1913	..	..	..	..	..	..	..	11,000	400/230 A.C.	17	1,680	24	18	
	B.	1917	..	..	..	..	..	..	..	11,000	400/230 A.C.	13	850	17	10	
	B.	1925	..	..	..	..	..	..	..	3,300	400/230 A.C.	19	2,480	35	20	
	B.	1915	..	..	..	..	..	..	..	11,000	415/240 A.C.	66	7,755	85	21	
BOARDS	..	..	4,708	..	..	4,650	1,372	..	..	..	4,872	..	..	796	..	
..	B.	1916	..	..	..	..	..	..	..	3,300	..	48	929	50	1	
..	B.	1913	..	..	..	..	..	..	..	..	..	13	170	12	2	
COUNCILS	..	..	..	..	..	..	..	..	..	..	..	61	1,000	62	..	
..	G.S.	1914	..	..	..	..	..	..	..	..	..	9	2,100	80	1	
..	I.	1922	..	..	..	432	..	..	..	..	..	9	235	9	2	
..	I.	1922	80	..	..	96	100	..	105	11,000	3,300	25	206	20	3	
..	I.	1925	..	..	..	46 D.C.	..	..	..	..	..	..	..	4	4	
..	..	..	80	..	..	574	100	..	..	..	..	43	2,001	119	..	
..	I.	1921	1,500	..	..	1,950	187	..	..	..	..	8	1,075	31	1	
..	I. & G.N.	1916	3,000	..	..	3,750	..	..	..	11,000	2,400	45	1,113	30	2	
..	I. & G.S.	1928	845	..	..	920	..	..	..	2,200	5,500	74	1,985	103	3	
TOTALS	..	..	5,405	..	..	6,029	187	..	..	..	..	137	5,053	173	..	
..	..	..	597,807	57,702	10,775	680,901	105,918	..	..	..	675,344	28,880	1,142,704	42,105	..	

<sup>1</sup> Includes Arayuni, Karapiro, Mangahao, and Walkaremoana main stations and Evans Bay, King's Wharf and Ponrose standby stations all interconnected. <sup>2</sup> Includes Coleridge, Waitaki, Arnold, Highbank, and Monoval main stations and Dobson standby stations. <sup>3</sup> Includes also Cobb main station and Stoke standby station not interconnected. <sup>4</sup> G.N. = Government Supply North Island; G.S. = Government Supply South Island; B. = Full supply from another supply authority; I. = Independent supply (own generating plant); L. = Full supply from another supply authority. <sup>5</sup> Plant sold to Marlborough Electric-power Board 31 March 1951. <sup>6</sup> Returns for year ended 31 December 1950. <sup>7</sup> Generating plant purchased by Government 1 August 1950. <sup>8</sup> Published figure last year was incorrect.

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TABLE X—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1951

Authority	Connected Load		Maxim. Load on System	Demand Factor	Generated			Feed Inlet	Net generated	Purchased	Not generated and purchased	Sold		Percentage Non-productive	Units sold (Average)				Average Maximum Demand per Retail Consumer	No.								
	Incl. Bulk Supply	Excl. Bulk Supply			Water	Steam	Oil					kWh.	kWh.		kWh.	kWh.	kWh.	kWh.			kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.
LYONS-BARCTHO PARCEWEST Island	3,383,998	32,626	435,100	1,753,801	174	1,027,204	1,027,204	7,996,370	82,960,382	1,084,775,220	1,080,542,757	44,365,629	219,282,720	10.7%	1,410	1,410	5,061	5,061	24,807	0.998	1							
Island	1,479,792	140,645	180,586	899,070,770	3,374,300	3,374,300	3,374,300	36,538,715	36,538,715	942,635,394	748,431,397	74,820,682	117,087,813	12.4%	1,305	1,305	4,440	4,440	200,005	1.143	2							
Totals	4,863,790	173,271	615,686	2,643,480,944	14,027,204	14,027,204	14,027,204	51,406,274	51,406,274	2,942,478,621	2,491,615,706	120,392,311	326,070,514	11.2%	1,358	1,358	4,750	4,750	426,303	1.070	3							
ER BOARDS	48,300	5,097	12,416	5,548,448	..	..	..	34,548,448	..	34,548,448	..	..	..	11.9%	1,540	1,540	5,061	5,061	24,807	0.998	4							
London	791,633	100,257	12,665	444,378,484	..	..	..	444,378,484	..	444,378,484	..	..	..	12.2%	1,410	1,410	4,440	4,440	200,005	1.143	5							
Peeninsula	15,037	1,323	8,805	43,080	..	..	..	43,080	..	43,080	..	..	..	17.1%	1,305	1,305	3,552	3,552	16,347	0.856	6							
Islands	47,705	5,194	8,875	710,417	..	..	..	710,417	..	710,417	..	..	..	14.3%	704	704	3,836	3,836	16,347	0.856	7							
Plenley	31,292	3,199	14,082	879,120	..	..	..	879,120	..	879,120	..	..	..	12.0%	984	984	5,402	5,402	24,807	1.070	8							
Waike's Bay	11,830	2,424	20,470	..	..	..	..	..	..	..	..	..	..	20.1%	1,364	1,364	4,486	4,486	20,000	1.081	9							
Waikato	101,297	7,718	10,301	..	..	..	..	..	..	..	..	..	..	12.3%	1,104	1,104	4,378	4,378	20,000	1.081	10							
Waikato	31,828	2,442	7,072	..	..	..	..	..	..	..	..	..	..	12.2%	1,228	1,228	4,365	4,365	20,000	1.081	11							
Bay	49,480	4,000	16,402	865,567	..	..	..	865,567	..	865,567	..	..	..	9.8%	1,073	1,073	4,662	4,662	20,000	1.081	12							
Bay	43,569	7,274	16,702	..	..	..	..	..	..	..	..	..	..	11.7%	1,073	1,073	4,662	4,662	20,000	1.081	13							
Bay	143,822	14,547	8,959	..	..	..	..	..	..	..	..	..	..	11.7%	1,201	1,201	4,920	4,920	20,000	1.081	14							
Bay	67,854	6,940	10,301	..	..	..	..	..	..	..	..	..	..	12.7%	1,107	1,107	4,920	4,920	20,000	1.081	15							
Bay	339,115	35,182	10,301	..	..	..	..	..	..	..	..	..	..	13.4%	1,348	1,348	4,669	4,669	20,000	1.081	16							
Bay	11,528	4,946	8,000	..	..	..	..	..	..	..	..	..	..	17.7%	301	301	2,719	2,719	20,000	1.081	17							
Bay	68,630	15,350	8,000	..	..	..	..	..	..	..	..	..	..	17.7%	511	511	3,222	3,222	20,000	1.081	18							
Bay	31,940	3,270	11,817	..	..	..	..	..	..	..	..	..	..	12.1%	1,459	1,459	5,143	5,143	20,000	1.081	19							
Bay	81,886	58,221	9,672	..	..	..	..	..	..	..	..	..	..	13.9%	783	783	3,686	3,686	20,000	1.081	20							
Bay	54,742	5,244	5,244	..	..	..	..	..	..	..	..	..	..	16.7%	1,190	1,190	4,311	4,311	20,000	1.081	21							
Bay	15,708	1,457	12,258	..	..	..	..	..	..	..	..	..	..	14.4%	1,303	1,303	5,049	5,049	20,000	1.081	22							
Bay	34,840	3,294	11,205	..	..	..	..	..	..	..	..	..	..	13.0%	1,403	1,403	4,770	4,770	20,000	1.081	23							
Bay	80,440	8,000	6,758	..	..	..	..	..	..	..	..	..	..	14.4%	2,005	2,005	6,757	6,757	20,000	1.081	24							
Bay	117,343	63,485	8,000	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	25							
Bay	38,801	42,428	6,077	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	26							
Bay	65,637	58,177	2,285	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	27							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	28							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	29							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	30							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	31							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	32							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	33							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	34							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	35							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	36							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	37							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	38							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	39							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	40							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	41							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	42							
Bay	..	..	..	..	..	..	..	..	..	..	..	..	..	13.0%	1,303	1,303	5,049	5,049	20,000	1.081	43							
Totals	3,061,676	405,802	62,081	50,128,124	..	..	..	3,792,556	14,972,040	47,948,040	1,810,541,825	1,457,423,703	206,307,180	11.3%	1,100	1,100	4,145	4,145	46,789	0.731	44							
COVENANTS	629,954	47,000	4,820	..	..	..	..	..	..	..	..	..	..	10.4%	1,550	1,550	4,770	4,770	185,884	1.183	45							
Bay	43,310	4,820	1,301	..	..	..	..	..	..	..	..	..	..	10.4%	1,051	1,051	3,753	3,753	374,732	1.524	46							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	8.7%	702	702	2,251	2,251	184,743	0.581	47							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	8.7%	993	993	3,068	3,068	125,144	0.633	48							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	12.9%	1,390	1,390	4,889	4,889	109,500	0.982	49							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	12.9%	1,390	1,390	4,889	4,889	109,500	0.982	50							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	12.9%	1,390	1,390	4,889	4,889	109,500	0.982	51							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	12.9%	1,390	1,390	4,889	4,889	109,500	0.982	52							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	12.9%	1,390	1,390	4,889	4,889	109,500	0.982	53							
Bay	4,820	1,301	1,301	..	..	..	..	..	..	..	..	..	..	12.9%	1,390	1,390	4,889	4,889	109,500	0.982	54							
Totals	1,438,211	192,802	20,000	11,403,647	76,977,389	88,734,465	809,142,050	124,888,005	748,059,021	405,450,634	1,457,423,703	1,457,423,703	206,307,180	11.3%	1,100	1,100	4,145	4,145	46,789	0.731	55							



TABLE X—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1951—continued

Authorities.	Connected Load.		Maxi- mum Load on System.	Annual Load Factor	Generated.			Net generated.	Purchased.	Net generated and purchased.	In Bulk for Resale.	Sold.		Percentage Non- productive.	Per Head of Population	Per Consumer (excluding Bulk Supply)	Per 5% of Distribution Capital	Per Route-mile of Line.	Average Maximum Demand per Month k.W.	No.						
	Including Bulk Supply.	Exclud- ing Bulk Supply.			Water.	Steam.	Oil.					Feed Back.	k.W.								k.W.	k.W.	k.W.	k.W.	k.W.	k.W.
COUNCILS	4,077	4,077	443	8.60/40.24	..	..	..	1,910,754	1,910,754	..	..	1,640,248	261,506	19.69	793	254	122,158	0.614	1							
..	6,057	6,057	334	5.16/14.14	..	..	..	1,884,100	1,884,100	..	..	1,922,902	201,799	19.73	898	252	93,508	0.570	2							
..	5,403	5,403	716	11.23/62.81	..	..	..	2,894,100	2,894,100	..	..	2,569,651	254,749	19.20	1,157	358	160,472	0.870	3							
..	9,758	9,758	746	7.65/51.11	..	..	..	3,340,000	3,340,000	..	..	2,676,280	663,714	19.87	1,700	400	157,544	0.669	4							
..	3,203	3,203	347	10.82/54.27	..	..	..	1,647,575	1,647,575	..	..	1,887,758	240,183	19.81	550	1,016	24,558	0.470	5							
..	5,517	5,517	555	10.06/57.08	..	..	..	2,679,047	2,679,047	..	..	2,465,959	270,018	19.09	1,141	827	24,781	0.851	6							
..	1,800	1,800	184	10.17/40.10	..	..	..	1,319,656	1,319,656	..	..	1,539,010	67,587	10.14	311	643	57,049	0.266	7							
..	2,949	2,949	270	9.16/55.80	..	..	..	3,750,640	3,750,640	..	..	3,115,108	904,160	19.50	1,948	1,116	37,170	0.513	8							
..	7,792	7,792	701	9.06/60.81	..	..	..	12,391,980	12,391,980	..	..	11,145,680	501,640	19.38	1,948	1,967	244,750	0.665	9							
..	23,668	23,668	2,607	11.02/54.26	..	..	..	19,657,016	19,657,016	..	..	17,741,990	1,245,990	10.84	1,900	1,653	428,574	1.089	10							
..	37,685	37,685	3,470	9.38/62.69	..	..	..	5,311,000	5,311,000	..	..	4,637,840	1,071,000	10.86	1,735	1,364	158,681	0.572	11							
..	18,712	18,712	1,007	9.53/60.22	..	..	..	1,482,200	1,482,200	..	..	1,808,800	672,800	19.69	1,043	3,170	173,478	0.612	12							
..	7,052	7,052	400	6.67/57.06	..	..	..	3,581,000	3,581,000	..	..	3,068,800	472,800	19.70	903	5,035	109,757	0.557	13							
..	17,959	17,959	710	10.87/77.37	..	..	..	20,400,157	20,400,157	..	..	10,744,584	2,950,358	21.48	1,497	4,700	313,588	1.417	14							
..	7,082	7,082	645	9.09/60.31	..	..	..	3,406,573	3,406,573	..	..	3,103,975	213,201	7.68	1,197	3,293	173,478	0.612	15							
..	8,249	8,249	963	13.17/45.50	..	..	..	4,081,800	4,081,800	..	..	4,208,085	573,718	7.68	1,467	1,702	173,478	0.612	16							
..	10,249	10,249	1,350	13.17/45.50	..	..	..	5,381,141	5,381,141	..	..	4,054,452	166,588	8.73	1,467	1,702	173,478	0.612	17							
..	9,197	9,197	534	8.81/48.11	..	..	..	2,509,740	2,509,740	..	..	2,054,452	455,288	13.36	910	1,093	204,494	0.547	18							
..	11,644	11,644	988	8.56/45.84	..	..	..	3,907,553	3,907,553	..	..	3,437,515	470,038	13.36	910	5,941	100,698	0.845	19							
..	35,200	35,200	2,054	7.54/49.84	..	..	..	11,586,350	11,586,350	..	..	10,219,210	1,367,140	11.80	862	2,788	120,702	0.724	21							
..	240,907	240,907	..	..	..	..	26,462,388	26,462,388	26,462,388	..	..	91,128,711	13,016,984	11.73	973	3,009	114,483	..	..							
BOARDS	..	..	497	14.14/57.45	..	..	..	2,501,102	2,501,102	..	..	2,183,540	317,562	12.70	1,211	4,438	43,671	1.010	1							
..	..	..	123	17.06/50.17	..	..	..	541,412	541,412	..	..	472,734	68,678	12.68	1,257	3,080	41,107	0.700	2							
..	..	..	620	..	..	..	..	3,042,514	3,042,514	..	..	2,656,274	386,240	12.60	1,219	4,090	42,843	..	..							
COUNCILS	..	..	1,472	11.30/51.30	..	..	..	6,622,971	6,622,971	..	..	5,970,974	652,997	9.85	1,418	5,287	74,867	1.291	1							
..	..	..	145	14.33/40.72	..	..	..	463,760	463,760	..	..	547,819	115,519	24.97	213	873	38,693	0.325	2							
..	..	..	135	19.06/47.65	..	..	..	605,240	605,240	..	..	513,604	91,636	15.14	543	2,070	20,143	0.587	3							
..	..	..	92	19.91/31.81	..	..	..	59,913	59,913	..	..	31,772	28,141	49.07	60	243	9,078	0.164	4							
..	..	..	1,769	..	..	..	..	6,622,971	6,622,971	..	..	6,363,998	258,973	11.45	937	3,581	57,681	..	..							
..	..	..	1,700	20.35/67.08	..	..	..	9,928,400	9,928,400	..	..	5,305,990	1,109,510	17.20	1,715	5,094	291,172	1.010	1							
..	..	..	3,200	30.73/84.27	..	..	..	22,236,700	22,236,700	..	..	11,648,046	2,160,000	15.50	8,020	135,442	551,600	0.953	2							
..	..	..	432	15.36/90.55	..	..	..	3,276,640	3,276,640	..	..	1,993,840	685,432	24.74	522	3,101	29,007	0.072	3							
..	..	..	5,332	..	..	..	..	35,442,000	35,442,000	..	..	19,947,806	9,915,008	10.51	2,279	10,615	109,625	..	..							
..	..	..	..	..	..	..	..	11,074,494	11,074,494	..	..	..	..	..	..	..	..	..	..							
..	..	..	..	..	..	..	..	2,803,806	2,803,806	..	..	2,446,572	424,050	20.99	1,281	4,245	58,024	..	..							
TOTALS	..	..	..	..	..	..	..	3,090,606,180	3,090,606,180	..	..	3,000,696,180	..	..	..	..	..	..	..	..						

Units sold per head of population ... 1.267  
 Units sold per head of population in area of supply ... 1.281  
 Units sold per consumer ... 4.245

Total population of Dominion as at 31/3/51 was 1,930,739. Ratio of total population in area of supply to total population of Dominion = 98.905 per cent.

Based on total units sold to ultimate consumers (2,446,572.424).

Includes Aranui, Karapiro, Mungahao, and Waikaremoana main stations and King's Wharf, Evans Bay, and Petros standby stations all interconnected. \* Includes Coleridge, Waitaki, Arnold, Highbank, and Monowai main stations and Dobson standby station all interconnected. † also Cobb main station and Stoiko standby station not interconnected. ‡ Returns for year ended 31 December 1950. § Total units sold (bulk plus retail) divided by route-miles now included service lines. ¶ Total units sold (bulk plus retail) divided by route-miles of lines (route-miles now include service lines). \*\* Percentage of total units generated on transmission and distribution system, including pro rata allocation of miscellaneous capital expenditure. †† Transfer from Tevelo Electric. ††† Derived from items 4 and 8, Table XIII. †††† Taken over by Marlborough Electric-power Board 31 March 1951.

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TABLE XI—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION, FOR THE YEAR ENDED 31 MARCH 1951

Supply Authorities.	Capital Outlay.	Revenue.			Total.	Working Costs.			Capital Charges.				Net Results.		No. Deficiency.	
		£(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.	59,787,918	5,064,703	400,497	8,767,673	4,216,436	470,288	424,271	2,367,591	1,187,533	336,325	337,110	67,915	1,929,383	4,290,974	80,568	1
POWER BOARDS	603,812	448,140	115,959	122,601	2,875	14,350	9,890	70,127	15,144	17,159	4,916	37,949	107,369	15,292	1	
... of	5,231,946	1,056,064	1,144,532	1,156,979	3,378	170,819	158,324	949,445	42,480	46,646	81,180	215,516	189,084	4,015	2	
... Islands	162,427	111,511	20,804	28,200	1,013	4,941	3,977	18,509	4,286	3,841	9,108	10,926	98,788	582	3	
... Plenty	379,737	559,630	125,362	127,586	2,164	38,911	14,138	74,681	18,738	180	97,823	43,723	178,603	8,083	4	
... Tige	34,978	25,307	26,988	20,630	76	13,622	3,934	29,369	6,095	5,745	3,923	10,992	78,861	12,974	5	
... Hawke's Bay	147,526	57,340	60,427	41,637	784	4,040	3,740	29,785	2,598	3,571	11,189	8,100	25,931	1,403	6	
... Wairarapa	344,350	223,000	80,427	63,692	989	29,108	6,581	35,876	7,795	12,513	23,662	21,984	57,836	5,743	7	
... Waikato	895,146	499,688	192,615	193,753	913	25,871	26,127	134,736	17,775	19,612	8,749	33,760	89,086	4,067	8	
... Waikarekare	330,689	197,129	64,409	67,812	708	33,238	7,774	101,547	19,167	5,867	3,749	23,451	30,966	3,760	9	
... Waikarekare	616,588	509,379	145,951	147,412	415	17,451	19,652	107,547	19,167	5,867	3,749	23,451	30,966	3,760	10	
... Bay	115,284	83,306	23,249	22,379	394	8,300	3,147	13,551	2,474	5,937	1,831	3,680	19,301	1,959	11	
... Bay	351,900	99,294	123,600	128,930	950	57,968	14,745	130,870	4,306	7,682	2,794	16,397	106,839	17,111	12	
... Bay	899,338	491,773	178,381	211,938	411	25,001	23,224	157,638	17,237	2,650	2,820	27,472	115,450	10,732	13	
... Bay	547,834	276,679	125,422	137,883	782	55,084	20,540	88,981	9,797	79	2,820	26,500	110,641	10,732	14	
... Bay	863,836	537,270	374,623	378,519	488	60,000	3,665	320,005	19,167	79	2,820	26,500	110,641	10,732	15	
... Bay	262,536	240,464	31,550	36,064	488	8,036	3,697	16,684	7,199	7,155	1,017	16,068	75,348	3,718	16	
... Bay	103,724	80,260	154,507	19,150	252	4,929	3,363	9,257	3,307	1,905	264	10,609	42,709	3,888	17	
... Bay	742,974	302,641	154,507	233,295	752	112,071	25,482	150,240	12,570	16,176	1,843	39,685	139,593	39,350	18	
... Bay	473,474	201,913	175,111	99,293	845	29,592	6,894	56,323	10,776	8,423	1,843	25,115	51,448	17,768	19	
... Bay	807,000	500,404	447,438	167,921	3,833	10,875	35,084	103,914	16,228	8,423	...	43,271	132,066	15,866	20	
... Bay	387,775	265,072	36,233	100,076	150	19,557	13,009	88,911	9,781	6,698	...	19,360	30,956	9,129	21	
... Bay	178,847	68,615	37,550	43,743	217	4,300	7,770	25,770	3,681	3,010	...	30,450	37,139	6,684	22	
... Bay	562,265	377,750	105,970	107,008	300	35,152	24,608	65,813	14,459	6,788	...	40,450	46,239	10,778	23	
... Bay	321,388	199,095	54,494	55,110	48	3,797	7,683	45,652	11,557	7,938	...	19,607	30,548	14,268	24	
... Bay	928,798	316,556	119,970	144,019	1,024	25,440	15,940	103,630	10,820	14,010	...	14,665	143,330	14,689	25	
... Bay	505,978	341,800	105,654	150,975	4,652	14,652	14,774	103,240	13,220	10,820	...	14,115	146,531	1,854	26	
... Bay	311,208	89,517	89,255	98,160	1,770	18,854	13,775	67,183	7,174	6,739	...	4,313	36,362	5,798	27	
... Bay	300,028	216,000	90,880	91,825	308	40,349	18,333	77,475	12,416	8,001	...	22,290	30,140	1,854	28	
... Bay	627,340	389,162	76,324	109,656	1,295	11,145	11,921	50,103	14,995	8,001	...	45,464	30,140	1,854	29	
... Bay	225,197	147,390	48,065	58,456	120	18,034	6,207	30,829	10,143	5,006	...	10,636	103,058	12,995	30	
... Bay	440,907	320,005	102,066	108,800	1,000	52,808	9,314	84,329	10,143	5,006	...	10,636	103,058	12,995	31	
... Bay	411,756	214,907	80,505	81,568	628	35,407	13,540	57,469	8,130	5,925	...	4,510	73,349	206	32	
... Bay	72,656	25,400	10,285	30,395	294	122,148	30,641	175,000	25,000	14,461	...	17,889	5,810	33		
... Bay	1,050,114	650,336	241,021	205,306	1,418	35,434	20,831	135,000	30,641	14,461	...	30,882	8,364	34		
... Bay	408,938	263,057	106,601	144,488	1,716	72,536	15,632	94,001	10,289	11,461	...	10,769	252,339	13,050	35	
... Bay	469,380	256,911	121,550	129,511	4,800	21,782	15,772	84,001	10,289	11,461	...	10,769	118,906	23,472	36	
... Bay	167,963	109,132	17,470	21,062	1,800	1,054	2,982	7,519	3,774	1,363	...	4,783	13,134	16,977	37	
... Bay	100,286	58,853	21,674	33,840	71	16,930	3,170	23,001	3,774	1,363	...	3,905	16,478	4,684	38	
... Bay	350,495	216,531	99,820	103,257	396	16,930	3,170	23,001	3,774	1,363	...	3,905	106,459	3,351	39	
... Bay	4,117,268	231,365	328,303	300,252	3,443	155,961	30,790	258,576	26,353	5,938	...	30,820	320,782	9,470	40	
... Bay	809,766	194,454	64,273	66,600	987	25,911	7,807	40,782	6,384	3,411	...	15,192	62,290	3,611	41	
... Bay	310,530	295,625	201,800	214,485	2,240	90,363	21,063	140,602	13,025	5,000	...	2,922	103,854	20,601	42	
... Bay	24,349,078	12,477,800	5,476,018	5,928,173	72,106	16,080	631,801	4,200,061	457,675	207,404	...	589,757	356,118	7,108	43	
... Bay	2,000,042	82,928	655,001	600,500	266	390,488	30,465	540,504	3,521	13,463	...	85,281	642,708	17,738	44	
... Bay	3,101,566	2,007,800	801,950	517,500	7,110	152,413	40,684	349,700	59,446	55,256	...	41,810	530,258	29,794	45	
... Bay	157,178	37,811	89,234	73,624	3,377	15,087	7,450	87,369	1,410	...	...	2,821	91,930	19,773	46	
... Bay	220,258	118,127	59,234	104,799	...	42,947	6,460	81,684	7,722	...	...	7,722	59,020	13,773	47	
... Bay	151,254	117,488	67,000	83,741	...	31,218	7,722	60,200	5,028	2,319	...	3,763	71,771	11,651	48	
... Bay	297,114	20,924	7,000	11,087	...	10,200	7,722	60,200	5,028	2,319	...	3,763	71,771	11,651	49	

TABLE XI—CAPITAL OUTLAY, FINANCIAL RESULTS OF GENERATION, DISTRIBUTION, AND OPERATION FOR THE YEAR ENDED 31 MARCH 1951—continued

Supply Authorities.	Capital Outlay.	Loan Liability.	Revenue.			Working Costs.			Capital Charges.				Net Results.		No. Delinquency Rates to make up		
			Retail.	Bank for Resale (excluding Feed-back).	Feed-back and Standby Charges.	Trading Account Profit.	Other Sources (excluding Rates).	Total.	Cost of Power.		Total.	Depreciation.	Other.	Total.		Total Annual Costs.	
									Generated.	Purchased.							
£(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.)	
Borough Councils	18,736	1,456	11,180	1,529	1,710	12,710	1,554	1,031	4,300	1,007	1,007	4,300	1,007	1,007	4,300	1,007	1,007
City of Auckland	24,006	4,600	7,997	1,243	13,117	15,117	1,007	1,007	5,027	1,520	1,520	5,027	1,520	1,520	5,027	1,520	1,520
City of Hamilton	15,273	1,050	4,487	8,806	10,063	13,063	1,520	1,520	5,870	1,520	1,520	5,870	1,520	1,520	5,870	1,520	1,520
City of Napier	14,900	1,810	3,047	2,000	2,042	2,042	1,004	1,004	1,004	1,483	1,483	1,004	1,483	1,483	1,004	1,483	1,483
City of Wellington	32,782	210,016	48,495	19,309	68,801	108,601	156	1,075	7,000	2,268	2,268	7,000	2,268	2,268	7,000	2,268	2,268
City of Dunedin	100,071	60,000	19,947	4,469	21,416	21,416	1,402	1,075	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
City of Christchurch	125,358	89,580	14,572	13,445	28,017	28,017	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800
City of Invercargill	85,753	60,436	13,910	1,395	15,305	15,305	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187
Totals	320,782	210,016	48,495	19,309	68,801	108,601	156	1,075	7,000	2,268	2,268	7,000	2,268	2,268	7,000	2,268	2,268
County Councils	25,201	8,872	17,325	1,000	17,325	17,325	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
County of Albany	15,273	4,487	7,702	2,000	2,042	2,042	1,004	1,004	1,004	1,483	1,483	1,004	1,483	1,483	1,004	1,483	1,483
County of Ashburton	14,900	1,810	3,047	2,000	2,042	2,042	1,004	1,004	1,004	1,483	1,483	1,004	1,483	1,483	1,004	1,483	1,483
County of Hawke's Bay	7,370	1,810	3,047	2,000	2,042	2,042	1,004	1,004	1,004	1,483	1,483	1,004	1,483	1,483	1,004	1,483	1,483
Totals	62,840	21,900	30,998	19,309	31,363	31,363	3,382	3,382	3,382	3,382	3,382	3,382	3,382	3,382	3,382	3,382	3,382
Companies	100,071	60,000	19,947	4,469	21,416	21,416	1,402	1,075	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Electric Power Ltd.	125,358	89,580	14,572	13,445	28,017	28,017	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800
Electric Power Ltd.	85,753	60,436	13,910	1,395	15,305	15,305	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187	1,187
Totals	320,782	210,016	48,495	19,309	68,801	108,601	156	1,075	7,000	2,268	2,268	7,000	2,268	2,268	7,000	2,268	2,268
GRAND TOTALS	94,330,819	68,076,122	18,751,267	4,091,451	389,171	60,629	103,407	13,401,924	4,517,075	1,811,884	1,811,884	4,517,075	1,811,884	1,811,884	4,517,075	1,811,884	1,811,884

\* Excluding stocks, plant, motor-vehicles, and tools (see Table I.A).  
 \* Taxation (social security and income).  
 \* Actual running-costs only, including fuel, wages, stores, repairs, and maintenance.  
 \* Includes cost of street lighting.  
 \* Returns for year ended 31st December, 1950.  
 \* Generated.  
 \* Purchased.  
 \* Feed-back.

1950

TABLE XIII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1951

Supply Authorities.	Capital Outlay.			Revenue from Sale of Electricity.					Working-costs.			Capital Charges.			Total Costs.			No. of Distribution Capital.	
	Per Head of Population.	Per £1 of Revenue.	£(N.Z.)	Per Unit sold (Overall, including Bulk Sales).	Per Unit sold (Domestic Supply).	Per Head of Population.	Per Retail Consumer.	Per kW. of Maximum Demand.	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.
1. Ashburton	30.55	100.43	5.22	0.912	0.741	6.29	19.24	19.29	0.4-20	0.553	11.89	57.20	0.294	6.21	6.17	0.294	17.00	17.78	1
2. Auckland	18.08	50.66	4.57	0.704	0.642	4.20	13.05	11.43	0.553	9.38	81.28	0.431	0.747	4.06	0.747	0.431	11.50	22.04	2
3. Banks Peninsula	40.98	104.33	5.69	1.240	1.230	7.58	18.35	20.26	0.578	13.09	65.02	0.473	0.733	4.06	0.473	0.473	21.75	20.11	3
4. Bay of Islands	20.86	113.73	5.40	1.290	0.972	3.89	29.71	24.49	0.772	13.38	38.50	0.452	0.733	6.36	0.452	0.452	22.78	17.35	4
5. Bay of Plenty	14.65	81.30	3.28	0.809	0.687	4.35	22.47	18.10	0.603	13.32	69.09	0.489	0.733	3.43	0.489	0.489	16.85	28.23	5
6. Bay of Plenty	27.00	17.39	1.35	2.312	2.005	2.49	12.92	37.51	1.811	29.25	78.07	0.384	0.733	12.34	0.384	0.384	16.85	28.23	6
7. Bay of Plenty	19.86	46.80	3.70	0.949	0.877	5.57	17.90	14.74	0.807	13.20	71.53	0.406	0.733	5.76	0.406	0.406	15.79	25.05	7
8. Central Hawke's Bay	29.23	115.91	5.70	1.115	0.976	5.40	20.34	22.23	0.807	13.20	58.41	0.406	0.733	6.36	0.406	0.406	15.79	25.05	8
9. Central Hawke's Bay	21.94	77.98	4.49	1.115	0.976	4.01	17.95	18.31	0.807	13.20	58.41	0.406	0.733	6.36	0.406	0.406	15.79	25.05	9
10. Dunedin	26.68	87.95	5.13	1.221	1.221	5.30	19.60	17.71	0.771	13.40	69.07	0.481	0.733	7.09	0.481	0.481	16.85	28.23	10
11. Dunedin	24.36	83.14	4.23	1.321	0.874	5.80	17.13	29.73	0.771	13.40	69.07	0.481	0.733	7.09	0.481	0.481	16.85	28.23	11
12. Golden Bay	30.10	112.58	5.69	1.186	1.054	5.57	10.77	29.73	0.771	13.40	69.07	0.481	0.733	7.09	0.481	0.481	16.85	28.23	12
13. Grey	17.11	53.33	2.89	0.900	0.900	4.25	18.64	16.01	0.771	13.40	69.07	0.481	0.733	7.09	0.481	0.481	16.85	28.23	13
14. Hawke's Bay	21.12	68.65	4.29	0.837	0.762	4.25	13.20	14.11	0.771	13.40	69.07	0.481	0.733	7.09	0.481	0.481	16.85	28.23	14
15. Horowhenua	22.50	57.66	4.37	1.004	0.973	5.25	13.20	14.11	0.771	13.40	69.07	0.481	0.733	7.09	0.481	0.481	16.85	28.23	15
16. Hutt Valley	9.52	32.90	2.31	0.735	0.602	4.17	21.15	10.65	0.647	9.38	87.16	0.240	0.733	3.40	0.240	0.240	10.70	43.59	16
17. King-country	25.31	175.00	3.32	1.807	1.807	3.48	21.15	31.03	0.647	9.38	87.16	0.240	0.733	3.40	0.240	0.240	10.70	43.59	17
18. Marlborough	30.31	99.54	5.67	1.814	1.814	4.04	22.23	31.03	0.647	9.38	87.16	0.240	0.733	3.40	0.240	0.240	10.70	43.59	18
19. Manawatu-Oroua	27.19	99.50	6.21	1.433	1.194	4.36	18.40	24.31	0.747	13.09	46.20	0.645	0.733	5.34	0.645	0.645	12.32	15.20	19
20. Marlborough	27.84	100.82	4.06	0.929	0.868	5.70	18.40	24.31	0.747	13.09	46.20	0.645	0.733	5.34	0.645	0.645	12.32	15.20	20
21. North Auckland	23.94	75.53	3.97	0.958	1.150	4.47	18.40	18.83	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	21
22. North Canterbury	28.75	111.43	4.70	1.112	1.137	5.45	28.40	18.83	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	22
23. Otago	28.75	111.43	4.70	1.112	1.137	5.45	28.40	18.83	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	23
24. Otago	34.53	116.40	5.90	1.665	2.017	4.05	19.74	27.03	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	24
25. Otago Central	17.68	72.90	3.82	0.874	0.874	4.90	15.32	14.82	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	25
26. Foveaux Bay	20.41	82.07	3.82	0.770	0.770	5.49	15.32	14.82	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	26
27. South Canterbury	18.63	60.88	3.30	0.812	0.785	5.62	15.32	14.82	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	27
28. South Canterbury	19.19	75.41	3.38	0.812	0.785	5.62	15.32	14.82	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	28
29. Springs-Ellesmere	45.03	164.61	4.42	1.119	1.065	5.71	26.03	27.84	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	29
30. Taranaki	24.63	85.08	4.60	1.119	1.065	5.71	26.03	27.84	0.629	10.74	61.88	0.274	0.733	4.98	0.274	0.274	12.32	15.20	30
31. Taranaki	25.22	78.29	4.32	0.858	0.858	5.30	18.10	21.03	0.606	9.38	87.16	0.240	0.733	5.34	0.606	0.606	14.83	20.97	31
32. Taranaki	25.22	78.29	4.32	0.858	0.858	5.30	18.10	21.03	0.606	9.38	87.16	0.240	0.733	5.34	0.606	0.606	14.83	20.97	32
33. Te Awamutu	25.22	78.29	4.32	0.858	0.858	5.30	18.10	21.03	0.606	9.38	87.16	0.240	0.733	5.34	0.606	0.606	14.83	20.97	33
34. Te Awamutu	25.22	78.29	4.32	0.858	0.858	5.30	18.10	21.03	0.606	9.38	87.16	0.240	0.733	5.34	0.606	0.606	14.83	20.97	34
35. Thames Valley	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	35
36. Thames Valley	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	36
37. Waikato	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	37
38. Waikato	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	38
39. Waikato	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	39
40. Waikato	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	40
41. Waikato	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	41
42. Waikato	21.89	70.82	4.07	0.859	0.831	4.39	17.75	10.71	0.559	13.55	70.81	0.225	0.733	3.75	0.225	0.225	15.30	23.51	42
43. Wanganui-Rangitikei	15.54	98.17	4.82	1.074	1.074	5.03	20.40	19.51	0.482	12.38	61.23	0.371	0.733	7.17	0.371	0.371	19.13	28.71	43
Totals	20.03(n)	99.24(e)	4.24(c)	0.855(d)	0.902(f)	4.60(p)	15.57(v)	18.49	0.619(o)	70.96(t)	0.204(g)	5.64(z)	0.824(i)	4.76	5.64(z)	0.824(i)	23.63(m)	23.63(m)	44

(For notes see page 14.)

TABLE XIII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1951—continued

Supply Authorities.	Capital Outlay.				Revenue from Sale of Electricity.				Working-costs.			Capital Charges.			Total Costs.			No.
	Per Head of Population.	Per Consumer.	Per £ of Revenue.	Per Unit sold (Overall, including Bulk Sales).	Per Unit sold (Domestic Supply).	Per Head of Population.	Per Retail Consumer.	Per kW. of Maximum Demand.	Per kW. of Maximum Demand.	Per Unit sold.	Per 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.		
																	£(N.Z.)	
<b>CTRY COUNCILS</b>																		
1. Christchurch	13.40	10.31	3.07	0.661	0.561	£(N.Z.)	13.40	10.40	£(N.Z.)	8.68	51.98	5.00	0.103	1.62	21.08	1		
2. Dunedin	31.44	20.71	0.90	0.671	0.489	£(N.Z.)	10.20	10.20	£(N.Z.)	8.83	705.37	6.01	0.239	3.04	10.21	2		
3. Hamilton	6.30	21.12	0.90	0.941	0.731	£(N.Z.)	10.80	18.60	£(N.Z.)	13.22	425.01	1.79	0.033	0.65	13.87	3		
4. Invercargill	9.33	57.41	2.47	1.187	1.070	£(N.Z.)	11.14	18.11	£(N.Z.)	12.35	0.13-95	4.15	0.121	1.85	14.10	4		
5. Napier	19.82	50.11	2.18	1.058	0.877	£(N.Z.)	13.63	21.36	£(N.Z.)	15.10	551.70	7.05	0.122	3.50	18.00	5		
6. Nelson	15.92	17.08	2.02	0.906	0.692	£(N.Z.)	16.78	17.48	£(N.Z.)	12.20	1109.05	4.20	0.122	2.05	14.25	6		
7. New Plymouth	14.31	10.21	3.15	0.833	0.711	£(N.Z.)	13.80	15.61	£(N.Z.)	13.27	307.43	5.22	0.137	2.88	16.15	7		
8. Palmerston North	8.90	28.17	3.29	0.900	0.674	£(N.Z.)	13.80	15.60	£(N.Z.)	10.78	1244.98	2.69	0.079	1.37	12.15	8		
9. Timaru	12.91	37.27	2.71	0.791	0.508	£(N.Z.)	13.73	10.60	£(N.Z.)	8.99	802.74	5.23	0.112	1.52	11.16	9		
10. Wellington	16.08(m)	48.91(c)	3.58(c)	0.755(c)	0.568	£(N.Z.)	13.57(p)	10.60	£(N.Z.)	8.99	802.74	5.23	0.112	1.52	10.51	10		
Totals	16.08(m)	48.91(c)	3.58(c)	0.755(c)	0.568	£(N.Z.)	13.57(p)	10.60	£(N.Z.)	8.99	802.74	5.23	0.112	1.52	10.51	34.23(m)		
<b>Borough Councils</b>																		
1. Bluff	8.32	25.05	1.67	1.028	0.739	£(N.Z.)	13.50	25.26	£(N.Z.)	17.78	896.68	0.21	0.160	2.63	20.40	1		
2. Inglewood	9.60	23.90	1.74	1.380	1.151	£(N.Z.)	13.05	33.95	£(N.Z.)	14.52	541.32	8.54	0.305	5.20	19.78	2		
3. Kaupoi	5.95	20.28	0.94	0.912	0.827	£(N.Z.)	12.91	16.01	£(N.Z.)	20.06	609.69	8.89	0.165	2.00	19.78	3		
4. Lyttelton	7.30	23.24	1.79	1.243	1.235	£(N.Z.)	12.94	19.34	£(N.Z.)	14.56	97.03	4.92	0.114	1.70	22.95	4		
5. Ohakune	14.29	21.05	2.01	1.524	1.065	£(N.Z.)	12.16	25.41	£(N.Z.)	20.19	221.26	7.49	0.230	3.84	24.02	5		
6. Patoka	9.21	27.86	2.95	1.020	0.827	£(N.Z.)	16.27	19.12	£(N.Z.)	13.70	73.13	4.56	0.137	2.57	18.36	6		
7. Picton	19.36	27.99	1.71	1.168	0.724	£(N.Z.)	10.34	56.41	£(N.Z.)	52.82	988.48	5.23	0.371	5.03	67.84	7		
8. Kaerahi	3.40	13.94	0.90	1.060	0.739	£(N.Z.)	14.92	28.54	£(N.Z.)	17.91	80.84	7.03	0.700	12.04	57.84	8		
9. Rangiora	11.57	36.27	2.48	1.236	0.740	£(N.Z.)	12.91	19.41	£(N.Z.)	15.75	80.84	10.38	0.106	2.23	29.95	9		
10. Riccarton	11.62	43.08	2.27	1.509	0.980	£(N.Z.)	12.91	23.71	£(N.Z.)	16.77	82.25	3.70	0.069	1.23	18.01	10		
11. Rotorua Electric Supply	14.15	34.82	2.27	1.509	1.100	£(N.Z.)	12.91	23.71	£(N.Z.)	13.31	304.81	8.06	0.320	6.13	21.00	11		
12. Stratford	37.00	70.08	4.52	1.691	1.168	£(N.Z.)	15.97	28.69	£(N.Z.)	21.58	71.84	0.80	0.104	1.05	19.44	12		
13. Tairāpiti	9.55	24.94	1.73	1.250	0.900	£(N.Z.)	14.51	12.43	£(N.Z.)	5.85	51.63	2.86	0.361	6.16	23.53	13		
14. Taumarunui	10.17	27.21	1.98	1.050	0.740	£(N.Z.)	13.73	21.23	£(N.Z.)	15.85	44.65	4.35	0.104	2.52	23.04	14		
15. Te Aroha	9.55	24.94	1.73	1.250	0.900	£(N.Z.)	14.51	12.43	£(N.Z.)	5.85	51.63	2.86	0.361	6.16	23.53	15		
16. Thames	7.19	23.34	1.52	1.052	0.655	£(N.Z.)	20.87	23.30	£(N.Z.)	15.45	71.69	3.49	0.080	1.83	17.28	16		
17. Wairoa	8.17	25.95	2.28	1.301	0.801	£(N.Z.)	11.40	15.94	£(N.Z.)	10.50	65.89	4.70	0.110	1.81	17.53	17		
18. Waikanae	18.43	50.55	3.78	1.285	0.885	£(N.Z.)	11.74	20.86	£(N.Z.)	12.85	58.10	10.15	0.183	2.03	12.40	18		
19. Whangarei	13.88	51.30	3.77	1.174	0.945	£(N.Z.)	13.04	18.84	£(N.Z.)	13.25	69.51	6.03	0.207	3.24	15.76	19		
Totals	13.73(m)	42.45(c)	2.96(c)	1.126(c)	0.928	£(N.Z.)	14.12(c)	18.84	£(N.Z.)	14.47	580.84	4.71	0.208	3.34	17.81	25.10		
<b>TOWN BOARDS</b>																		
1. Kaponga	14.49	53.11	2.32	1.236	1.160	£(N.Z.)	22.86	22.63	£(N.Z.)	17.18	224.94	5.34	0.938	2.81	19.99	1		
2. Mangaweka	14.19	34.20	2.36	1.140	1.101	£(N.Z.)	14.51	18.38	£(N.Z.)	21.61	106.87	2.12	0.157	0.92	23.62	2		
Totals	14.44(m)	48.56(c)	2.33(c)	1.221(c)	1.156	£(N.Z.)	20.85(c)	18.84	£(N.Z.)	19.02(p)	217.92(f)	4.80(k)	0.130(f)	...	1.48(f)	41.23(m)		

(For notes see page 14.)

1950

1040





TABLE XIII—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	54,201	1,215,597	93,640	2,179	7,354	631,454	8,314	1,909,596	1	
3	Units generated	16,589	351,648	30,284	648	1,917	206,303	1,785	576,325	1	
4	Units sold (retail)	2,794,878	62,920,680	26,939,338	163,711,847	1,128,913	191,780,098	47,116,494 <sup>(1)</sup>	3,096,696,189	3	
5	Units sold (bulk plus retail)	120,892	1,457,423	91,128,711	2,656,274	6,863,998	849,308,604	18,947,806	2,446,672,424	4	
6	Route-miles of lines (including service lines)	6,127	31,149	97,943,946	796	119	881,057,884	45,024,692 <sup>(2)</sup>	42,165	5	
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 <sup>(3)</sup>	59,797,913	24,349,078	1,285,593	31,465	62,846	9,863,046	320,782	94,330,819	8	
9	Revenue (retail sales)	22,369,024	23,532,353	1,048,102	30,829	40,023	7,743,490	114,436	33,759,363	9	
10	Revenue (bulk sales)	400,497	5,476,018	427,719	13,511	30,993	2,826,317	48,435	8,751,267	10	
11	Revenue (retail plus bulk sales)	3,767,673	271,814	6,610	..	..	32,655	19,309	4,091,451	11	
12	Gross revenue (excluding rates)	4,168,170	5,747,832	434,329	13,511	30,993	2,858,972	67,744	12,842,718	12	
13	Gross revenue (less revenue from bulk sales, feed-back, and standby charges)	448,763	5,596,066	462,740	14,249	31,363	3,248,984	68,331	13,461,924	13	
14	Working costs (including costs of generating feed-back)	2,367,591	4,200,664	447,364	14,249	31,363	2,887,511	49,022	8,981,302	14	
15	Working costs (excluding costs of generating feed-back)	1,978,420	4,163,904	315,497	11,199	27,451	2,472,334	43,487	9,090,076	15	
16	Capital charges	1,929,383	1,372,550	311,738	1,199	27,451	2,179,568	43,487	8,365,379	16	
17	Total costs (including costs of generating feed-back)	4,296,974	5,579,223	74,548	1,509	3,283	517,919	7,620	3,827,481	17	
18	Total costs (excluding cost of generating feed-back)	3,907,803	5,536,463	386,286	12,708	30,734	2,990,263	51,107	12,917,557	18	

Notes.—<sup>1</sup> Includes generation by sundry private plants (see Table X.)

<sup>2</sup> Includes bulk sales by sundry private plants (see Table X.)

<sup>3</sup> Includes plant, stocks, motor-vehicles, and tools.



TABLE XIV—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1951

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 Kilowatts.	Ratio, Number of Ranges to Domestic Consumers.	Number.	Total Kilowatts.	Ratio, Number of Water-heaters to Total Number of Consumers.	Number.	H.P.		
<b>STATE HYDRO-ELECTRIC DEPARTMENT</b>															
1. North Island	54,201	29.62	515	18	533	477	3,041	92.62	511	578	95.87	5	181	4.90	1
2. South Island	54,201	..	14,011	2,045	16,056	4,651	27,670	33.20	3,786	4,719	23.58	1,933	2,822	0.26	2
Totals ..	54,201	..	14,526	2,063	16,589	5,128	30,711	35.30	4,297	5,297	25.90	1,938	2,826	3.92	..
<b>POWER BOARDS</b>															
1. Ashburton	19,765	30.42	5,311	701	6,012	3,149	10,135	59.20	3,215	6,181	53.48	216	181	4.90	1
2. Auckland	275,603	31.82	73,310	14,392	87,702	44,713	320,139	60.99	47,149	34,382	53.76	1,067	1,067	58.66	2
3. Banks Peninsula	3,729	39.27	1,384	77	1,461	653	3,929	47.18	870	1,052	45.86	210	165	6.29	3
4. Bay of Islands	32,970	18.34	5,263	784	6,047	2,664	16,448	50.62	3,240	2,444	53.58	1,900	1,900	4.27	4
5. Bay of Plenty	19,064	18.02	2,955	481	3,436	1,661	10,004	56.21	2,393	1,977	69.64	906	1,218	9.35	5
6. Butler	10,481	19.19	1,610	401	2,011	49	374	3.04	99	86	4.92	34	18	34.39	6
7. Cambridge	7,430	30.17	1,962	280	2,242	852	5,564	43.42	1,488	1,694	66.37	480	579	9.21	7
8. Central Hawke's Bay	11,779	25.22	2,508	463	2,971	1,692	10,333	67.46	1,457	1,673	49.04	257	277	4.24	8
9. Central Waikato	39,439	28.13	10,132	963	11,095	4,263	26,606	42.12	6,464	5,332	58.26	2,377	3,566	6.80	9
10. Dannevirke	12,393	30.34	3,168	592	3,760	1,434	9,076	45.27	1,633	1,473	43.43	576	663	8.95	10
11. Franklin	25,311	29.30	6,691	725	7,416	3,700	22,081	55.30	6,164	4,625	83.12	2,635	3,000	8.20	11
12. Golden Bay	3,819	26.81	884	140	1,024	370	1,848	41.86	452	343	44.14	187	178	5.41	12
13. Grey	20,563	32.09	5,679	920	6,599	1,994	12,877	35.11	1,510	1,646	22.88	96	98	20.20	13
14. Hawke's Bay	42,578	30.77	11,600	1,500	13,100	7,305	50,157	62.97	7,435	7,094	56.76	458	482	10.01	14
15. Horowhenua	24,246	39.19	8,457	1,044	9,501	4,131	26,955	48.85	4,860	3,889	47.99	881	1,099	10.22	15
16. Hutt Valley	90,776	28.87	23,888	2,321	26,209	14,210	96,855	59.49	15,058	11,341	57.45	147	174	30.59	16
17. King-country	10,371	14.39	1,396	96	1,492	335	2,260	24.00	378	494	25.34	197	257	4.44	17
18. Mairangi	4,736	22.00	1,042	130	1,172	287	1,441	31.47	183	317	17.56	22	16	4.44	18
19. Manawatu-Oroua	24,512	28.36	6,278	673	6,951	3,186	21,402	60.75	4,023	2,938	57.88	1,970	2,530	8.98	19
20. Marlborough	17,413	27.30	4,631	723	5,354	1,218	8,806	30.22	1,045	898	21.98	203	274	12.42	20
21. North Auckland	29,021	27.61	7,738	1,044	8,782	3,654	20,322	50.23	5,742	4,526	71.66	2,604	3,536	3.80	21
22. North Canterbury	16,195	31.70	4,646	488	5,134	2,024	11,624	43.56	1,921	2,898	37.42	435	302	4.95	22
23. Opanake	6,220	25.80	1,410	195	1,605	797	4,718	56.52	1,196	1,033	74.52	584	870	12.54	23
24. Otago	26,409	26.85	5,946	1,145	7,091	1,310	8,283	22.03	1,346	1,790	18.98	51	309	7.33	24
25. Otago Central	9,307	29.67	2,308	453	2,761	856	4,726	37.00	1,045	1,090	37.85	50	51	4.25	25
26. Poverty Bay	35,765	24.69	6,979	1,636	8,615	3,554	25,585	50.92	3,559	3,735	41.31	394	338	16.34	26
27. South Canterbury	27,725	24.87	6,079	817	6,896	1,789	11,885	29.43	1,595	2,471	23.13	260	260	5.76	27
28. South Taranaki	16,795	30.69	4,213	941	5,154	1,913	12,792	45.41	2,110	2,574	51.84	1,142	1,510	12.54	28
29. Springs-Ellersmere	15,991	25.45	3,698	372	4,070	2,046	12,031	35.33	2,806	1,840	60.51	419	336	7.15	29
30. Taranaki	14,615	26.08	3,552	259	3,811	1,314	8,976	36.09	2,110	2,574	51.84	1,142	1,510	12.54	30
31. Tararua	9,144	28.95	2,229	421	2,647	1,559	8,493	70.04	1,502	1,153	56.74	591	654	5.82	31
32. Tauranga	19,842	28.38	5,233	423	5,656	3,749	23,504	71.97	4,260	3,696	75.80	1,056	1,304	6.57	32
33. Te Awamutu	16,009	25.74	3,381	430	3,811	2,457	11,921	72.67	2,615	2,460	63.47	1,083	1,677	9.41	33
34. Teviot	2,707	24.12	458	195	653	362	2,216	79.04	317	297	48.55	6	3	8.16	34
35. Thames Valley	49,327	27.71	12,432	1,238	13,670	6,310	44,593	50.76	9,611	8,174	70.31	4,049	6,639	6.74	35
36. Waimea	21,508	26.78	4,890	996	5,786	2,841	17,114	58.46	2,926	2,945	50.80	472	443	13.37	36

TABLE XIV—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1951—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. (1)	No.
	Number.	Per Cent.	Domestic.	Commercial and Industrial.	Number.	Total.	Number. (1)	Total Kilowatts.	Ratio, Number of Ranges to Domestic Consumers.	Number.	Total Kilowatts.	Ratio, Number of Water-heaters to Total Number of Consumers.	Number.	H.P.	Number.	H.P.		
<b>POWER BOARDS—continued</b>																		
37. Waikato	27,557	27.97	6,426	1,282	7,708	3,688	21,889	57.39	3,828	3,600	49.66	1,034	1,475	10.62	37			
38. Waikato	3,547	24.02	761	91	852	444	3,108	58.34	3,568	433	66.67	254	288	2.75	38			
39. Waikato	7,776	11.19	782	88	870	290	1,913	38.24	408	315	46.90	129	113	4.36	39			
40. Waikato	19,009	32.46	5,175	996	6,171	2,946	18,827	56.93	3,044	3,251	49.33	151	110	9.73	40			
41. Waikato	78,763	35.24	24,331	3,426	27,757	14,942	92,618	61.41	14,248	11,543	51.33	2,838	1,906	14.22	41			
42. Waikato	13,254	23.70	2,627	514	3,141	1,059	10,979	63.15	1,830	1,595	58.26	578	834	8.78	42			
43. Wanganui-Rangitikei	52,142	28.18	12,272	2,420	14,692	4,739	31,108	38.62	5,470	4,471	37.23	1,471	1,153	13.02	43			
Totals	1,215,597	28.93	304,465	47,183	351,648	163,123	1,086,909	53.58	183,065	157,320	52.08	35,770	44,534	11.29				
<b>CITY COUNCILS</b>																		
1. Christchurch	153,446	32.49	43,279	6,580	49,859	27,971	202,000	64.63	27,231	24,621	54.62	107	161	38.96	1			
2. Dunedin	98,663	31.53	27,554	3,552	31,106	9,159	54,402	33.24	14,604	18,462	46.95	266	364	44.97	2			
3. Hamilton	21,564	34.51	5,790	1,651	7,441	1,653	10,915	28.55	2,535	1,636	34.07	..	..	39.36	3			
4. Invercargill	23,682	33.86	6,708	1,310	8,018	869	3,623	12.95	893	1,138	11.14	..	..	82.08	4			
5. Napier	15,872	32.38	4,167	1,032	5,139	1,343	9,638	32.70	2,048	1,713	39.85	..	..	40.79	5			
6. Nelson	16,125	31.80	3,970	854	4,824	955	8,100	24.05	2,198	2,061	45.56	..	..	72.05	6			
7. New Plymouth	30,079	30.93	8,035	1,267	9,302	3,884	26,942	62.69	5,797	4,718	62.32	930	1,467	23.53	7			
8. Palmerston North	29,775	32.77	8,331	1,427	9,758	3,884	23,551	46.62	4,818	3,391	49.37	..	..	93.00	8			
9. Tamaru	19,744	31.92	5,146	1,157	6,303	2,057	13,415	39.97	2,220	3,483	35.22	1	1	85.45	9			
10. Wellington	120,391	34.67	33,843	7,861	41,704	7,438	50,597	21.98	15,025	17,003	36.03	34	86	68.46	10			
Totals	528,341	32.83	140,763	26,691	173,454	60,366	404,083	41.13	77,369	78,226	44.60	1,428	2,069	46.39				
<b>BOROUGH COUNCILS</b>																		
1. Bluff	2,251	32.07	590	132	722	143	620	24.24	83	97	11.50	..	..	57.80	1			
2. Inglewood	1,540	38.05	423	163	586	202	1,444	47.75	199	182	33.96	16	13	39.06	2			
3. Kaupoi	2,246	34.06	653	112	765	308	2,077	47.17	321	340	41.96	..	..	47.22	3			
4. Lyttelton	3,493	31.92	950	165	1,115	338	2,273	35.58	311	393	27.89	6	7	65.51	4			
5. Ohakune	2,496	29.01	549	175	724	92	648	16.76	145	122	20.03	31	37	18.19	5			
6. Patea	2,187	29.81	518	134	652	327	2,175	63.13	315	256	48.31	36	41	21.62	6			
7. Picton	1,924	33.00	528	107	635	25	136	4.73	..	..	..	..	..	60.48	7			
8. Rangiora	2,373	22.21	420	107	527	56	442	13.33	124	107	23.53	34	40	17.57	8			
9. Rangiora	2,769	37.66	927	127	1,054	365	2,476	39.37	492	538	46.68	..	..	72.69	9			
10. Riccarton	8,016	29.88	2,281	114	2,395	1,391	9,297	60.98	1,520	1,243	63.47	..	..	91.24	10			
11. Rotorua Electric Supply	19,481	31.08	4,944	1,111	6,055	1,814	11,906	36.69	2,139	1,811	35.33	463	511	24.82	11			
12. Stratford	2,344	33.36	1,115	348	1,463	567	4,362	50.85	563	515	38.48	12	10	54.72	12			
13. Tuihape	3,220	39.60	991	284	1,275	173	1,181	29.83	169	175	21.61	1	1	71.09	13			
14. Taumarunui	5,524	38.63	1,686	448	2,134	1,334	8,936	79.12	1,438	776	67.39	14	13	45.48	14			
15. Tauranga	2,667	37.38	727	270	997	366	2,563	50.34	394	303	39.52	..	..	38.07	15			
16. Te Aroha	..	..	..	..	..	..	..	..	..	..	..	..	..	23.16	16			

(For notes, see page 18.)

1950

1949

TABLE XIV—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1951—continued

Supply Authorities.	Population Included in Area of Supply.	Ratio of Consumers to Population in Area of Supply.	Consumers.			Ranges.			Water-heaters.			Milk-ing-machines.			Consumers Per Route-mile of Line. <sup>(2)</sup>
			Domestic.	Commercial and Industrial.	Total.	Number. <sup>(1)</sup>	Total kWatts.	Ratio, Number of Ranges to Domestic Consumers.	Number.	Total kWatts.	Ratio, Number of Water-heaters to Total Consumers.	Number.	H.P.		
<b>Borough Councils—continued</b>															
17. Thames .. .. .	4,551	34.30	1,236	325	1,561	598	3,538	522	393	33.44	3	3	62.44	17	
18. Wairoa .. .. .	3,348	30.79	773	258	1,031	565	3,812	558	368	54.12	..	..	43.87	18	
19. Waitara .. .. .	3,107	31.45	806	171	977	359	2,355	378	297	38.69	3	20	59.21	19	
20. Whakatane .. .. .	3,777	30.95	909	260	1,169	522	3,102	550	344	47.05	7	4	33.88	20	
21. Whangarei .. .. .	11,851	30.93	2,990	675	3,665	1,605	9,350	1,469	1,038	40.08	..	..	43.29	21	
<b>Totals .. .. .</b>	<b>93,640</b>	<b>32.34</b>	<b>24,596</b>	<b>5,688</b>	<b>30,284</b>	<b>11,368</b>	<b>74,130</b>	<b>11,914</b>	<b>9,458</b>	<b>39.34</b>	<b>641</b>	<b>726</b>	<b>38.05</b>		
<b>Town Boards</b>															
1. Kaponga .. .. .	1,803	27.20	401	91	492	176	1,183	336	278	68.29	194	299	9.84	1	
2. Mangaweka .. .. .	376	41.49	108	48	156	60	319	69	50	44.23	14	10	13.57	2	
<b>Totals .. .. .</b>	<b>2,179</b>	<b>29.74</b>	<b>509</b>	<b>139</b>	<b>648</b>	<b>236</b>	<b>1,502</b>	<b>405</b>	<b>328</b>	<b>62.50</b>	<b>208</b>	<b>309</b>	<b>10.45</b>		
<b>County Councils</b>															
1. Heathcote .. .. .	4,212	27.07	1,133	7	1,140	799	4,520	914	998	80.18	4	6	14.29	1	
2. Kaikoura .. .. .	1,037	24.37	300	89	389	23	63	4	5	1.00	4	3	44.33	2	
3. Murchison .. .. .	945	26.14	217	30	247	21	105	42	38	17.00	54	48	9.69	3	
4. Uawa .. .. .	530	24.37	114	17	131	..	..	..	..	..	..	..	37.43	4	
<b>Totals .. .. .</b>	<b>7,324</b>	<b>26.17</b>	<b>1,764</b>	<b>153</b>	<b>1,917</b>	<b>843</b>	<b>4,688</b>	<b>960</b>	<b>1,041</b>	<b>50.08</b>	<b>62</b>	<b>57</b>	<b>16.11</b>		
<b>Companies</b>															
1. Kanieri Electric, Ltd. <sup>(3)</sup> .. .. .	3,093	34.14	842	214	1,056	274	1,880	221	213	20.93	..	..	34.62	1	
2. Wilsons (N.Z.) Portland Cement .. .. .	1,400	6.14	72	14	86	49	316	67	55	77.91	37	65	2.21	2	
3. Westland Power, Ltd. <sup>(3)</sup> .. .. .	3,821	16.83	564	79	643	106	684	144	148	22.40	120	156	6.22	3	
<b>Totals .. .. .</b>	<b>8,314</b>	<b>21.47</b>	<b>1,478</b>	<b>307</b>	<b>1,785</b>	<b>429</b>	<b>2,880</b>	<b>432</b>	<b>416</b>	<b>24.20</b>	<b>157</b>	<b>221</b>	<b>10.32</b>		
<b>GRAND TOTALS .. .. .</b>	<b>1,909,596</b>	<b>30.18</b>	<b>494,101</b>	<b>82,224</b>	<b>576,325</b>	<b>241,483</b>	<b>1,584,903</b>	<b>278,442</b>	<b>252,086</b>	<b>48.31</b>	<b>40,204</b>	<b>50,742</b>	<b>13.67</b>		

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) For year ended 31 December 1950. (4) Taken over by Marlborough Electric-power Board 31 March 1951.

TABLE XVII—STATISTICS RELATING TO ELECTRICAL WIREMEN'S REGISTRATION BOARD FOR YEAR ENDED  
31 MARCH 1951

(The figures in parentheses are for the previous year)

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

2. Registrations—

Inspectors  
Electrical wiremen  
Electrical servicemen, Class "D"  
Electrical servicemen, Class "E" (including radio)  
Electrical servicemen, Class "E" (excluding radio)  
Limited registration  
Provisional licences  
Registrations after periodical purging

	During Year.	Total.	Current.
	48 (50)	1,053 (1,005)	457 (437)
	302 (293)	6,139 (5,837)	5,279 (4,969)
	33 (25)	299 (266)	269 (244)
	59 (44)	466 (407)	( )
	1 (1)	40 (39)	( )
	20* (9)	1,321† (1,301)	848 (843)
	133 (121)	1,355 (1,222)	( )
	28 (195)	415 (387)	( )
	Candidates	Passed. Per Cent.	Highest Marks.
	640 (772)	45	96 (97)
	428 (436)	50	94 (95)
	129 (267)	48	90 (93)
	152 (145)	62	94 (90)

3. Examinations—

Wiremen—  
Written  
Practical  
Servicemen—  
Written  
Practical

4. Defective work reports: 8 (12); endorsements made 1 (3); endorsements removed 3 (2).

5. Breach of Act reports: 77 (40), prosecutions authorized 70 (27).

\* Includes Assembly, repair, and testing of apparatus manufactured for sale on premises of Dominion Radio and Electrical Co., Ltd., Auckland, 1; installation and maintenance, supervisory control and maintenance only, traffic lights, Wellington City Council, 1; luminous-discharge-tube installers, 1; radio apparatus, 4; radio experimenter, 1; servicemen (supply authority), 4; servicing calculating machines and like office equipment, 1; maintenance and repair temperature control and picture telegraph equipment, 1; work in mines, 2; work on gold dredges, 1; X-ray and electro-medical equipment, 2; replacement fuse links, temporary flexible cords, and equipment for experimental purposes, Fats Research Laboratory D.S.I.R., 1. † Includes radio servicemen registered prior to the introduction in 1930 of examinations for Electrical Servicemen, Class "E", and includes other miscellaneous registrations.

1950

1949