

ANNUAL STATISTICS IN RELATION TO HYDRO-ELECTRIC DEVELOPMENT AND OPERATION

YEAR ENDED 31 MARCH 1953

For full text of the General Manager's Report, refer to State Hydro-electric Statement, 1953, Appendix A, pages 5 to 35 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, 1952-53

		1953	1952	Increase or Decrease
(a) Installed generating-capacity (main stations)	kW.	701,977	616,081	+85,896
(b) Installed generating-capacity (standby)	kW.	84,805	85,153	-348
(c) Total connected load (excluding bulk supply)	kW.	5,906,731	5,430,317	+476,414
(d) Consumers	No.	622,439	599,501	+22,938
(e) Units sold per head of total population	No.	1,395	1,377	+18
(f) Units sold per consumer	No.	4,565	4,559	+6
(g) Route-miles of main, distribution and service lines	R.M.	45,769	43,617	+2,152
(h) Consumers per route-mile of line (including service lines)	No.	13.60	13.74	-0.14
(i) Sales (retail) per route-mile of line (including service lines)	Units	62,083	62,655	-572
(j) Electrical fires reported	No.	23	27	-4
(k) Electrical accidents reported	No.	65	55	+10
		(13 fatal)	(11 fatal)	+2
(l) Electric-ranges installed	No.	278,444	255,571	+22,873
(m) Electric water-heaters installed	No.	322,432	300,428	+22,004
(n) Electric milking-machines installed	No.	42,800	41,572	+1,228

B. Summarized Results of Operations for the Year ended 31 March 1953

Item		Water.	Steam.	Gas.	Oil.	Total.
1. Number of main stations	No.	27			2	29
2. Installed capacity (main plant)	kW.	701,585			392	701,977
3. Number of standby plants	No.	15	6		13	34
4. Installed capacity (standby plant)	kW.	8,110	57,762		18,933	84,805
5. Units generated	No.	3,334,437,700	220,656,144		23,932,934	3,579,026,778
6. Units sold to consumers						2,841,457,351
7. Percentage of non-productive units						20.61
8. Number of consumers						622,439
9. Connected load (excluding bulk supply)						5,906,731
10. Total operative capital (including distribution systems and standby plant)						£124,706,812
11. Total capital per kilowatt installed (including distribution systems, etc.)						£158.44
12. Annual working-costs (excluding cost of power purchased in bulk)						£5,880,195
13. Annual working-cost per unit under item 6						0.497d.
14. Annual capital cost (interest, sinking fund, and depreciation, etc.)						£4,956,823
15. Annual capital cost per unit under item 6						0.417d.
16. Annual capital cost as a percentage of capital						3.960%
17. Total annual costs (item 12 plus item 14)						£10,817,018
18. Total annual cost per unit under item 6						0.914d.
19. Total annual revenue (from retail sale of electricity)						£10,581,642
20. Average revenue per unit (from items 19 and 6)						0.894d.
21. Gross revenue (excluding rates and bulk sales)						£11,142,025
22. Net profit (item 21 less item 17)						£325,007
23. Ratio of working-costs to gross revenue (item 12 and item 21)						52.77%

Tables

For reasons of economy in paper, the usual number of tables is not being published for the year ended 31 March 1953, 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 II—Government System : Analysis of Capital Outlay.
Table III—Government System : Working-costs.
Table IX—Generating Plants, Voltages, Route-miles of Lines, etc.
Table X—Results of Generation, Distribution, etc.

Table XI—Financial Results of Operation, etc.
Table XIII—Averages derived from Tables IX, X, and XI.
Table XIIIa—Summary of totals from Tables IX, X, and XI.
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 1953

NOTE.—“ North Island ” includes Arapuni, Karapiro, Mangahao, Maraetai, and Waikaremoana main stations and King Evan's Bay, and Penrose standby stations, all interconnected. “ South Island ” includes Coleridge, Waitaki, Monowai, Arnold (K Tekapo, and Highbank main stations and Dobson standby station, all interconnected; also Cobb main station and Stoke station, not interconnected.

A. Financial

	£	£		
Capital outlay—			Net loss for year	5
Assets in operation	57,637,556		Loan redemption statutory charge for year (unpaid)	4
Assets not in operation	25,081,913	82,719,469	Total deficiency for year	1,0
Plant, motor vehicles, and tools	813,597		Balances at end of year—	
Stocks of materials	1,867,286	2,680,883	Depreciation reserve	6,4
Total capital invested		85,400,352	Loan redemption fund	4,8
Revenue for year—			Net revenue and appropriation account—net loss	5
Sales of energy	4,687,869	4,746,996	Loan redemption—arrears	5
Rent and miscellaneous receipts	59,127			
Working costs		3,097,444		
Capital charges—				
Interest		1,713,451		
Depreciation		530,988		
Total		2,244,439		
Total costs for year		5,341,883		

B. Operating Results

	1952-53.			1951
Maximum load (kilowatts)—			Revenue—	
North Island	472,800		Per kW.	£6
South Island	208,075		Per unit output	0
Total maximum load	*680,875		Per unit distributed	0
			Per unit sold	0
Average load (kilowatts)—			Working costs—	
North Island	265,973		Per kW.	£4
South Island	121,771		Per unit output	0
Average load factor—	Per Cent.		Per unit distributed	0
North Island	56.26		Per unit sold	0
South Island	58.52			
Units output (generated and purchased)—			Capital charges—	
North Island	2,329,922,586		(Excluding taxation and loan redemption fund)—	
South Island	1,066,710,306		Per kW.	£3
Total	3,396,632,892		Per unit output	0
Units distributed—			Per unit distributed	0
Units sold—			Per unit sold	0
North Island	2,088,167,333		Total costs—	
South Island	928,238,512		(Excluding taxation and loan redemption fund)—	
Total	3,016,405,845		Per kW.	£7
Units unsold (used free of charge)—			Per unit output	0
North Island	17,240,578		Per unit distributed	0
South Island	7,956,748		Per unit sold	0
Total	25,197,326		Total costs†—	
Total units distributed—			(Including taxation and loan redemption fund)—	
North Island	2,105,407,911		Per kW.	£8
South Island	930,195,200		Per unit output	0
Grand total	3,041,603,171		Per unit distributed	0
Line Losses—			Per unit sold	0
Transmission and distribution—	Units.	Per Cent.		
North Island	224,514,675	9.64		
South Island	130,515,046	12.24		
	355,029,721	10.45		

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

† Excludes loan redemption arrears.

Units unsold (Losses + free of charge)

TABLE II—ANALYSIS OF GOVERNMENT CAPITAL OUTLAY AS AT 31 MARCH 1953

North Island		South Island		Combined Totals
	£		£	£
Hydro-electric stations—				
Land, fencing, and roading—				
Arapuni	120,444	Cobb River	62,382	
Karapiro	398,932	Lake Coleridge	35,476	
Maraetai	608,155	Waitaki	48,804	
Whakamaru	127,143	Lake Tekapo	25,076	
Tuai	21,616	Lake Pukaki Control	3,617	
Piripaua	40,899	Arnold	1,830	
Kaitawa	25,362	Highbank	18,514	
Mangahao	82,323	Monowai	12,246	
		Roxburgh	102,034	
	1,424,874		309,979	1,734,853
Headworks—				
Arapuni	1,426,019	Cobb River	2,511,954	
Karapiro	2,204,216	Lake Coleridge	546,175	
Lake Taupo Control	201,591	Waitaki	1,434,996	
Maraetai	5,510,739	Lake Tekapo	2,298,055	
Whakamaru	3,658,407	Lake Pukaki Control	2,317,589	
Tuai	198,190	Arnold	108,161	
Piripaua	715,666	Highbank	333,788	
Kaitawa	1,191,683	Monowai	86,660	
Lake Waikaremoana Control	341,440	Roxburgh	5,764,606	
Mangahao	949,637			
	16,397,588		15,401,984	31,799,572
Station buildings and permanent village—				
Arapuni	512,789	Cobb River	273,260	
Karapiro	563,698	Lake Coleridge	133,502	
Maraetai	1,486,607	Waitaki	1,283,030	
Whakamaru	53,254	Lake Tekapo	483,418	
Tuai	294,084	Arnold	10,767	
Piripaua	97,167	Highbank	107,305	
Kaitawa	175,515	Monowai	55,816	
Mangahao	126,657	Roxburgh	39,238	
	3,309,771		2,386,336	5,696,107
Generating plant and machinery—				
Arapuni	1,075,284	Cobb River	293,834	
Karapiro	956,267	Lake Coleridge	251,030	
Maraetai	1,552,380	Waitaki	967,226	
Whakamaru	259,266	Lake Tekapo	426,678	
Tuai	475,667	Arnold	26,917	
Piripaua	223,391	Highbank	179,598	
Kaitawa	348,761	Monowai	60,265	
Mangahao	279,221	Roxburgh	293,651	
	5,170,237		2,499,199	7,669,436
Fuel stations—				
King's Wharf	439,474	Stoke	79,302	
Penrose	12,033	Dobson	174,024	
Evans Bay	295,000			
	746,507		253,326	999,833
Transmission and distribution—				
Primary distribution—				
11 kV. lines	90,258	11 kV. lines	847,130	
33 kV. lines	..	33 kV. lines	59,170	
50 kV. lines	707,177	50 kV. lines	..	
66 kV. lines	..	66 kV. lines	1,551,459	
110 kV. lines	3,823,238	110 kV. lines	1,099,167	
220 kV. lines	4,097,877	220 kV. lines	975,454	
Secondary distribution	..	Secondary distribution	433,337	
	8,718,550		4,965,717	13,684,267
Substations—				
11 kV.	15,311	11 kV.	8,375	
33 kV.	..	33 kV.	48,610	
50 kV.	1,215,821	50 kV.	..	
66 kV.	..	66 kV.	1,194,310	
110 kV.	4,170,547	110 kV.	1,261,654	
220 kV.	4,077,128	220 kV.	142,395	
	9,478,807		2,655,344	12,134,151
Communications				
	515,004		220,230	735,234
General—				
Offices, stores, land and buildings	426,845	Offices, stores, land and buildings	80,863	
Surveys and investigations of other schemes	1,072,459	Surveys and investigations of other schemes	177,067	
Cost of raising loans	329,081	Cost of raising loans	539,129	
Interest capitalized during construction	3,892,891	Interest capitalized during construction	1,747,681	
	5,721,276		2,544,740	8,266,016
	£51,482,614		£31,236,855	£82,719,469

TABLE III—GOVERNMENT OPERATING OR WORKING COSTS FOR THE YEAR ENDED 31 MARCH 1953

	Cost	Cost per unit.		
		Generated	Distributed.	Sold
(a) Hydro-electric stations	£ 380,397	d. 0 0296	d.	d.
(b) Fuel stations	1,259,099	1 4201	..	..
(c) Auxiliary stations, power purchased, and standby provision	378,120	0 8906	..	..
Generated and purchased	2,017,616	0 1426	0 1592	0 1
(d) Transmission	147,570	0 0104	0 0116	0 0
(e) Communications	33,177	0 0023	0 0026	0 0
(f) Substations	230,005	0 0162	0 0181	0 0
(g) Retail distribution	56,424	0 0040	0 0044	0 0
(h) System operation and testing	97,442	0 0069	0 0077	0 0
(i) Administration costs and general expenses	515,210	0 0364	0 0406	0 0
	3,097,444	0 2188	0 2444	0 1

	North Island	South Island	Totals
Units generated—			
Hydro-electric	2,069,989,481	1,011,948,650	3,081,938,131
Fuel	208,505,659	4,288,345	212,794,004
Purchased	51,427,446	50,473,311	101,900,757
Totals	2,329,922,586	1,066,710,306	3,396,632,892
Units distributed	2,105,407,911	936,195,260	3,041,603,171
Units sold	2,088,167,333	928,238,512	3,016,405,845

TABLE IX.—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1923

Authorities.	Source of Supply.	Year when Supply Commenced.	Capacity of Generating Plant.						Static Head, In Feet.	Voltage.				Route Miles Lines.*	No.				
			Water.	Steam.	OH.	Main Plant.		Standby Plant.		Total Capacity.	Generation.	Transmission.	Primary Distribution.			Secondary Distribution.	Distribution Transformers.		
						kW.	kVA.	kW.									kVA.	kVA.	kVA.	Number.	kVA.
ELECTRIC DEPARTMENT	G.N.	1921	kW.	kVA.	kW.	kVA.	kW.	kVA.	kVA.	11,000	400/230 A.C.	111	10,315	2,440	1				
			157,800	180,000	157,800	180,000	157,800	180,000	3,000	11,000	400/230 A.C.	111	10,315	2,440	1				
			90,000	100,000	90,000	100,000	90,000	100,000	400	3,300	400/230 D.C.	1,437	177,875	1,508	2				
			19,200	24,000	19,200	24,000	19,200	24,000	330	11,000	400/230 A.C.	249	2,020	251	3				
			124,000	144,000	124,000	144,000	124,000	144,000	1,000	11,000	400/230 A.C.	1,317	15,402	1,025	4				
			85,000	94,444	85,000	94,444	85,000	94,444	400	11,000	400/230 A.C.	463	8,039	370	5				
			31,950	38,000	31,950	38,000	31,950	38,000	42	11,000	400/230 A.C.	183	5,859	244	7				
			22,000	27,300	22,000	27,300	22,000	27,300	400	11,000	400/230 A.C.	632	8,723	704	8				
									400	11,000	400/230 A.C.	708	27,865	1,710	9				
									400	11,000	400/230 A.C.	420	6,707	443	10				
			3,000	3,000	3,000	3,000	3,000	3,000	300	11,000	400/230 A.C.	636	15,087	926	11				
			34,500	40,840	34,500	40,840	34,500	40,840	400	11,000	400/230 A.C.	193	2,703	209	12				
			12,000	16,000	12,000	16,000	12,000	16,000	330	11,000	400/230 A.C.	261	15,707	966	13				
			25,200	28,000	25,200	28,000	25,200	28,000	154	11,000	400/230 A.C.	561	28,381	768	14				
			6,000	7,050	6,000	7,050	6,000	7,050	105	11,000	400/230 A.C.	325	21,812	984	15				
			25,200	28,000	25,200	28,000	25,200	28,000	70	11,000	400/230 A.C.	547	72,082	937	16				
			75,000	83,333	75,000	83,333	75,000	83,333	30	11,000	400/230 A.C.	345	3,720	458	17				
									400	11,000	400/230 A.C.	304	2,514	248	18				
			656,000	748,007	656,000	748,007	656,000	748,007	80,026	829,508	400/230 A.C.	304	2,514	248	18				
											400/230 A.C.	733	21,271	798	19				
											400/230 A.C.	341	8,124	400	20				
											415/240 A.C.	1,501	24,432	2,272	21				
											400/230 A.C.	919	10,520	1,117	22				
											400/230 A.C.	252	3,627	239	23				
ER BOARDS	G.S.	1923									400/230 A.C.	1,344	10,400	1,310	1				
	G.N.	1908									400/230 D.C.	1,437	177,875	1,508	2				
	G.S.	1921	72		72		72		90	90	400/230 A.C.	249	2,020	251	3				
	G.N.	1939	140		297		297		329	329	400/230 A.C.	1,317	15,402	1,025	4				
	G.N.	1928	200		200		200		250	250	400/230 A.C.	463	8,039	370	5				
	G.N.	1921									400/230 A.C.	183	5,859	244	7				
	G.N.	1925									400/230 A.C.	632	8,723	704	8				
	G.N.	1921									400/230 A.C.	708	27,865	1,710	9				
	G.N.	1925									415/240 A.C.	420	6,707	443	10				
	G.N.	1925									400/230 A.C.	636	15,087	926	11				
	G.S.	1920	200		200		200		250	250	400/230 A.C.	193	2,703	209	12				
	G.N.	1926									400/230 A.C.	261	15,707	966	13				
	G.N.	1927									400/230 A.C.	561	28,381	768	14				
	G.N.	1924									400/230 A.C.	325	21,812	984	15				
	G.N.	1924									400/230 A.C.	547	72,082	937	16				
	G.N.	1946									400/400/230 A.C.	345	3,720	458	17				
	G.S.	1925									400/230 A.C.	304	2,514	248	18				
	G.N.	1924									400/230 A.C.	733	21,271	798	19				
	G.N.	1924									400/230 A.C.	341	8,124	400	20				
	G.S.	1927	1,000		2,330		2,330		2,912	2,912	400/230 A.C.	1,501	24,432	2,272	21				
	G.N.	1936									415/240 A.C.	919	10,520	1,117	22				
	G.S.	1928									400/230 A.C.	252	3,627	239	23				
	G.N.	1923	315		315		315		450	450	400/230 A.C.	1,344	10,400	1,310	1				

(For footnotes see page 7.)

TABLE IX—STATISTICS OF GENERATING PLANTS, SYSTEM VOLTAGE, ROUTE-MILES OF LINES, TRANSFORMERS, ETC., FOR THE YEAR ENDED 31 MARCH 1952—continued.

Authority.	Source of Supply ² .	Year when Supply Commenced.	Capacity of Generating Plant.				Static Head, in Feet.	Voltage.				Secondary Distribution.	Distribution Transformers.		Route Miles of Lines ⁴ .
			Main Plant.		Standby Plant.			Transmission.	Primary Distribution.	Number.	k.V.A.				
			k.W.	k.V.A.	k.W.	k.V.A.							Generation.		
NY COUNCILS	G.S.	1903											28	1,422	12
	B.	1905											8	710	16
	B.	1917											7	875	10
	G.S.	1917											11	1,775	17
	G.N.	1914	96	120	96	120	42						38	979	43
	B.	1901											29	1,487	20
	I.	1917											19	476	30
	B.	1919	376	280	60	120	380						9	1,200	15
	G.S.	1916			52	65							37	4,950	8
	G.N.	1901											301	11,538	325
Electric Supply	B.	1898	150	150 D.C.	150	150 D.C.	30						25	3,295	28
	B.	1913											7	800	11
	G.N.	1924	425	500	425	500	25						39	9,327	12
	I. & G.N.	1915	3,440	4,300	3,440	4,300	110	50,000					24	3,530	31
	B.	1906	133	100	133	100	800	33,000					18	2,055	56
	B.	1914											18	2,050	45
	B.	1913											20	2,110	20
	B.	1917											13	900	16
	B.	1922											21	3,181	17
	B.	1915											65	8,386	18
NY BOARDS			4,620	4,650	952	1,121							827	55,550	808
	B.	1916											50	933	51
	B.	1913											8	175	12
	I.	1952	120	120			102						6	200	23
			120	120									64	1,403	80
	G.S.	1914											9	2,100	82
	I.	1922											9	235	9
	I.	1922	200	240	80	100	103						31	346	27
	I.	1925													4
	COMPANIES			200	724	80	100							40	2,081	122
I.		1921	1,560	1,050	150	187	250						9	2,160	32
I. & G.S.		1916	3,000	3,750	3,000	3,750	130	22,000					45	1,395	34
I. & G.S.		1928	845	925	845	925	200						91	2,408	112
			5,405	6,825	150	187							145	5,993	178
			700,095	701,377	84,805	105,142							31,631	1,302,700	45,769
			57,762	59,024	19,325	20,142									
			57,762	59,024	19,325	20,142									
			57,762	59,024	19,325	20,142									
			57,762	59,024	19,325	20,142									

¹ Includes Arapahoe, Karapiro, Mangahoe, Maratani, and Walkerscrag main stations and Evans Bay, King's Wharf, and Petrosce standby stations all interconnected. ² Includes Coleridge, Waitaki, Arnold, Highbank, Monowai, and Tokapo main stations and Dobson standby station all interconnected. ³ G.N. = Government Supply, North Island; G.S. = Government Supply, South Island; B. = Bulk Supply from another supply authority; I. = Independent supply (own generating plant). ⁴ Returns for year ended 31 December 1952.

TABLE X—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1953

Table with 24 columns: Supply Authorities, Connected Load, Demand Factor, Annual Load, Feed Back, Net Generated, Purchased, Net Generated and Purchased, In Bulk for Resale, Retail to Consumers, Non-productive, Percentage Non-productive, Per Head of Population, Unsold (Average), Per Consumer (excluding Bulk Supply), Distribution of Capital, Route-mile of Line, Average Maximum Demand per Retail Consumer, No.

TABLE X—RESULTS OF GENERATION, DISTRIBUTION, AND CONSUMPTION FOR THE YEAR ENDED 31 MARCH 1953—continued

Authorities	Connected Load		Maxim. Load on System	Demand Factor	Generated			Oil	Feed Back	Not Generated	Purchased	Net Generated and Purchased	Sold		Units sold (Average)			Per Head of Population	Per Consumer (excluding Bulk Supply)	Per £1 of Distribution Capital ¹	Per Route-mile of Line ²	No. Demand per Maximum Consumer							
	Incl. Bulk Supply	Excl. Bulk Supply			Water	Steam	kWh.						kWh.	kWh.	In Bulk for Resale	Retail to Consumers	Non-productive ³						Percentage	kWh.	kWh.	kWh.	kWh.	kWh.	kWh.
COUNCILS	1,822	2,822	570	0.50/14.18	2,229,360	2,229,360	1,077,655	251,705	11.29	864	159,014	0.745	1										
..	7,467	7,467	416	0.22/50.10	..	..	..	..	..	2,044,320	2,044,320	1,707,213	277,107	13.55	1,111	150,451	0.773	1						
..	11,039	11,039	805	0.22/50.10	..	..	..	..	..	3,118,400	3,118,400	2,875,767	242,633	16.80	1,602	170,819	0.850	3						
..	4,063	4,063	423	0.22/50.10	383,485	..	..	..	..	3,659,693	3,659,693	3,059,693	600,000	19.69	1,202	174,767	0.779	4							
..	3,565	3,565	276	0.22/50.10	1,321	..	..	..	..	1,970,925	1,970,925	1,722,100	257,735	13.03	600	40,427	0.570	5							
..	25,645	25,645	2,850	0.22/50.10	1,528,250	..	..	..	..	4,370,340	4,370,340	3,074,601	1,295,739	10.43	1,216	60,268	0.841	6							
..	21,988	21,988	1,095	0.22/50.10	..	..	..	..	..	4,332,000	4,332,000	4,378,430	149,820	9.80	1,381	45,038	0.717	7						
..	7,759	7,759	858	0.22/50.10	..	..	..	..	..	13,248,840	13,248,840	17,942,670	4,693,830	10.01	1,423	200,664	0.717	8						
..	19,437	19,437	3,183	0.22/50.10	..	..	..	..	..	6,155,250	6,155,250	17,942,670	11,787,420	10.29	1,817	254,177	0.717	9						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	1,061,550	1,061,550	2,558,002	1,496,452	9.01	1,444	188,172	0.582	10						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	4,200,333	4,200,333	3,870,019	321,314	7.65	1,405	323,473	0.639	11						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	5,804,000	5,804,000	5,240,541	563,459	10.00	1,102	80,105	0.753	12						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	6,200,071	6,200,071	6,000,045	199,926	10.00	1,062	205,747	0.600	13						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	2,855,040	2,855,040	2,628,658	226,382	7.93	785	211,563	1.367	14						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	5,074,720	5,074,720	4,237,348	837,372	16.50	999	153,576	0.802	15						
..	15,300	15,300	900	0.22/50.10	..	..	..	..	..	13,482,030	13,482,030	12,080,515	1,399,115	10.35	944	138,356	0.824	16						
..	285,208	285,208	..	..	..	..	..	..	..	103,873,559	127,544,730	106,395,345	15,031,025	11.78	1,144	125,294	..	..									
BOARDS	4,100	4,100	561	13.51/62.08	..	..	..	..	..	3,011,772	3,011,772	2,590,352	421,420	13.99	1,393	50,701	1.074	1						
..	723	723	121	13.05/60.18	..	..	..	..	..	637,848	637,848	577,288	60,560	9.49	1,519	50,199	0.701	2						
..	320	320	60	18.75/8.93	40,885	40,885	1,774	0.566	3										
..	5,193	5,193	..	..	..	..	..	..	..	3,040,050	3,000,505	3,298,440	488,065	13.20	663	37,307	..	..									
TOWNS	10,870	10,870	1,783	10.57/52.87	..	..	..	..	..	8,258,000	8,258,000	7,432,200	825,800	10.00	1,630	90,251	1.464	1						
..	1,140	1,140	160	13.50/42.17	..	..	..	..	..	591,120	591,120	437,314	153,806	26.02	265	48,560	0.348	2						
..	2,030	2,030	180	10.22/52.14	..	..	..	..	..	950,486	950,486	687,500	263,000	27.70	559	25,947	0.730	3						
..	111	111	20	10.37/52.50	..	..	..	..	..	61,380	61,380	30,411	30,969	50.45	56	8,689	0.104	4						
..	20,100	20,100	..	..	..	..	..	..	..	8,861,486	8,861,486	8,587,515	1,273,971	12.91	1,007	70,389	..	..									
..	6,854	6,854	1,700	24.80/66.02	..	..	..	..	..	183,380	183,380	6,167,134	1,200,336	10.36	1,952	271,058	1.045	1						
..	7,000	7,000	3,200	28.07/78.16	..	..	..	..	..	3,027,650	21,000,950	11,842,946	1,897,903	13.81	8,254	582,999	1.216	2						
..	3,755	3,755	576	16.34/52.50	..	..	..	..	..	500,030	4,666,158	2,514,580	729,729	22.35	663	35,004	0.749	3						
..	18,515	18,515	..	..	..	..	..	..	..	3,711,860	36,395,988	20,524,600	3,827,068	15.72	2,429	115,307	..	..									
..	..	..	..	..	..	..	..	..	..	10,277,545	10,277,545	10,277,545	737,569,427	20.61	1,414	62,083	..	..									
TOTALS	5,006,731	5,006,731	3,334,437,700	220,650,144	23,932,934	3,579,626,778										

Units sold per head of population ... 1,395
 Units sold per head of population in area of supply ... 1,414
 Units sold per consumer ... 4,565

Total population of Dominion as at 1/4/53 was 2,037,553. Ratio of total population in area of supply to total population of Dominion = 98.62 per cent.

¹ Includes Coleridge, Waiaki, Arnold, Highbank, Monowai, and Tokapo main stations and ...
² Returns for year ended 31 December 1952.
³ Includes units lost in transmission and distribution, units sold free of charges, and units supplied to station auxiliaries.
⁴ Sundry private plants (including advanced units for Westland Power Ltd. and Kanieri Electric Co. due ...)
⁵ Total units sold retail divided by route-miles of lines (route-miles now include service lines).
⁶ Percentage of net units generated and purchased.
⁷ Transfer to Otago Central Electric Power Board.
⁸ Derived from items 4 and 8, Table XIII.

TABLE XIII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1953—continued

Supply Authorities.	Capital Outlay.		Revenue from Sale of Electricity.					Working-costs.			Capital Charges.			Total Costs.			
	Per Head of Population.	Per £ of Consumer Revenue.	Per Unit sold (Overall, including Bulk Sales).	Per Unit sold (excluding Bulk Sales).	Per Unit sold (Domestic Supply).	Per Head of Population.	Per Retail Consumer.	Per k.W. of Maximum Demand.	Per Unit sold.	Per k.W. of Maximum Demand.	Per Cent. of Total Revenue.	Per Unit sold.	Per k.W. of Maximum Demand.	Per Cent. of Capital Outlay.	Per Unit sold.	Per k.W. of Maximum Demand.	Per Cent. of Distribution Capital.
	£(N.Z.)	£(N.Z.)	d.	£(N.Z.)	d.	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	%	d.	£(N.Z.)	%	d.	£(N.Z.)	%	
CITY COUNCILS																	
1. Christchurch ..	15.11	3.41	0.062	0.092	0.557	5.68	13.82	19.37	5.69	82.93	0.101	1.58	4.56	0.656	10.27	20.08	
2. Dunedin ..	28.44	6.38	0.0716	0.781	0.582	6.19	12.37	8.60	37.73	57.73	0.268	4.70	5.85	0.640	11.24	26.42	
3. Hamilton ..	7.00	1.83	0.080	0.080	0.780	4.13	20.83	12.70	0.008	0.049	0.063	1.32	3.40	0.929	14.08	36.28	
4. Invercargill ..	8.00	2.75	1.188	1.032	1.030	4.94	17.34	20.83	0.840	70.17	0.089	1.30	2.72	0.929	13.56	33.46	
5. Napier ..	10.00	1.00	1.032	1.032	0.835	4.06	17.34	21.31	0.729	69.37	0.178	3.07	0.07	0.907	18.71	60.05	
6. Nelson ..	16.02	2.05	0.092	0.092	0.640	6.02	18.56	11.86	0.625	11.86	0.103	1.95	4.03	0.725	13.81	36.47	
7. New Plymouth ..	16.98	5.03	0.826	0.826	0.708	5.62	18.47	18.47	0.632	68.19	0.083	2.04	3.05	0.724	15.97	56.00	
8. Palmerston North ..	15.83	3.24	0.863	0.863	0.627	4.00	14.32	10.38	0.600	68.03	0.088	1.34	2.44	0.674	12.08	32.25	
9. Timaru ..	11.37	2.68	0.703	0.703	0.703	4.30	13.19	10.31	0.651	76.54	0.070	1.16	3.29	0.683	11.37	32.21	
10. Wellington ..	14.37	2.79	0.762	0.762	0.400	5.32	15.00	11.76	0.681	83.87	0.089	1.32	4.03	0.738	11.37	34.66	
Totals ..	18.30(t)	3.37(c)	0.828(d)	0.774(e)	0.586	5.05(f)	15.10(g)	704.42(f)	0.500(g)	73.08(t)	0.134(j)	..	4.78(k)	0.609(l)	..	32.33(m)	
BOROUGH COUNCILS																	
1. Bluff ..	8.00	1.63	1.530	1.935	1.935	5.51	16.31	21.89	1.110	72.52	0.025	0.36	1.01	1.135	16.23	45.41	
2. Invercargill ..	11.45	1.84	0.902	0.902	0.859	4.06	13.88	10.32	0.848	64.73	0.215	3.81	8.71	1.063	18.82	42.08	
3. Lyttelton ..	8.57	1.71	1.279	1.279	1.407	5.15	14.64	18.78	0.977	100.43	0.401	1.12	3.75	0.989	17.53	58.38	
4. Otago ..	7.48	1.87	1.451	1.451	1.407	4.47	14.00	24.30	1.268	70.47	0.280	4.84	10.74	1.403	20.08	64.35	
5. Pukekohe ..	15.49	2.73	1.118	1.130	1.598	3.81	17.11	34.10	0.755	67.56	0.171	3.36	10.65	1.557	26.07	80.93	
6. Roxburgh ..	13.92	3.70	1.680	1.680	1.680	4.70	15.22	21.22	0.682	41.13	0.520	8.58	5.61	0.926	18.19	35.49	
7. Roxburgh ..	8.91	1.51	0.783	0.828	0.828	4.10	15.08	13.62	0.643	74.10	0.070	0.36	1.14	0.707	16.45	51.47	
8. Roxburgh ..	10.40	2.35	1.184	1.184	1.184	4.70	17.97	25.30	0.905	81.05	0.276	1.21	3.96	0.713	12.40	40.39	
9. Roxburgh ..	14.93	2.41	1.221	1.221	1.221	5.02	18.18	25.30	0.938	74.10	0.150	5.14	5.54	1.073	21.99	23.09	
10. Roxburgh ..	13.50	2.23	1.535	1.535	1.148	4.14	18.18	30.72	0.785	89.37	0.283	5.97	9.70	1.086	21.73	36.46	
11. Roxburgh ..	25.87	4.10	1.610	1.610	1.610	7.13	18.07	28.25	0.938	60.47	0.543	9.53	4.39	1.455	25.00	41.12	
12. Roxburgh ..	37.59	5.55	0.649	0.649	0.530	5.78	13.28	13.28	0.268	59.84	0.139	2.31	3.05	0.378	9.15	27.23	
13. Roxburgh ..	11.53	2.01	0.957	0.957	0.825	5.70	14.72	19.54	0.605	46.14	0.113	2.31	5.00	0.808	10.60	46.10	
14. Roxburgh ..	5.95	1.63	1.184	1.184	1.032	5.63	15.69	26.13	0.605	57.64	0.139	2.31	3.05	0.378	9.15	27.23	
15. Te Anau ..	7.27	1.04	1.003	1.003	1.003	7.08	22.95	16.56	0.692	10.77	0.108	2.62	15.28	0.860	13.40	78.07	
16. Te Anau ..	5.95	1.04	1.003	1.003	1.003	4.26	13.29	22.07	0.821	63.04	0.093	1.61	3.10	0.914	15.82	31.34	
17. Wairoa ..	7.27	3.50	1.276	1.276	1.107	4.26	13.29	22.07	0.821	63.04	0.093	1.61	3.10	0.914	15.82	31.34	
18. Wairoa ..	29.11	3.81	1.381	1.381	1.196	5.89	18.25	21.13	0.949	67.10	0.309	4.73	6.40	1.258	19.25	29.42	
19. Wairoa ..	15.80	3.30	1.203	1.203	0.955	4.77	15.33	18.60	0.870	71.78	0.236	3.66	5.85	1.107	17.11	27.38	
Totals ..	15.33(t)	3.02(c)	1.004(d)	1.111(e)	0.938	5.12(f)	15.48(g)	558.08(f)	0.731(g)	67.31(t)	0.105(j)	..	6.08(k)	0.920(l)	..	33.83(m)	
TOWN BOARDS																	
1. Kaipara ..	18.51	2.73	1.160	1.160	1.146	7.04	24.45	22.77	1.040	85.78	0.121	2.35	3.79	1.161	22.62	36.40	
2. Mairangi ..	16.12	2.39	1.006	1.006	1.110	8.81	16.70	21.19	1.210	86.08	0.081	1.61	3.18	1.202	55.08	55.30	
3. Tamu ..	34.10	148.77	3.512	9.000	9.000	0.23	5.63	9.95	2.562	73.53	0.247	0.70	0.05	2.839	8.02	1.60	
Totals ..	26.73(t)	8.20(c)	1.180(d)	1.169	1.169	3.52(f)	20.36(g)	183.47(f)	1.091(g)	85.58(t)	0.115(j)	..	1.10(k)	1.200(l)	..	29.53(m)	

(For notes see page 14.)

TABLE XIII—AVERAGES DERIVED FROM PREVIOUS TABLES FOR THE YEAR ENDED 31 MARCH 1953—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 (Overall, 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.	Route-mile of Lino.	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.)		£(N.Z.)	£(N.Z.)	£(N.Z.)
COUNTY COUNCILS	8.04	30.00	1.76	0.074	0.071	0.012	4.74	17.13	11.70	253.36	0.587	10.20	84.22	0.039	0.07	3.26	0.626	10.87	52.80	1	
1. Heathcote	10.75	38.55	1.84	5.288	5.985	0.690	6.06	20.95	60.23	1070.50	7.715	87.80	122.35	0.344	3.91	3.53	8.058	91.77	280.10	2	
2. Kaitiawa	21.32	107.43	4.91	1.037	1.037	1.075	4.80	21.74	29.52	211.02	2.350	35.53	108.29	1.317	10.86	13.01	3.673	55.30	90.16	3	
3. Marchion	13.06	50.31	2.31	25.240	25.240	27.280	0.15	24.42	148.79	914.00	21.892	129.02	93.50	..	..	..	21.892	129.02	113.30	4	
Totals	11.11(m)	43.29(o)	2.28(e)	1.098(d)	1.098(d)	0.901	5.30(p)	10.02(r)	..	322.18(f)	1.107(g)	..	97.00(o)	0.150(j)	..	6.25(k)	1.324(l)	..	84.57(m)	..	
COMPANIES	30.36	105.31	4.53	0.705	0.807	1.226	7.14	20.42	14.01	798.39	0.528	11.17	74.06	0.080	1.88	2.79	0.018	13.05	59.80	..	1
1. Kansler Electric, Ltd.	89.53	1161.48	4.71	0.328	0.306	1.000	10.75	136.13	8.55	797.12	0.108	5.15	59.48	0.014	0.37	0.93	0.212	5.53	43.08	..	2
2. Wilson's (N.Z.) Portland Cement	20.14	160.83	3.63	1.302	1.848	2.007	5.06	25.18	37.03	100.26	0.810	23.03	61.86	0.420	12.11	8.99	1.235	35.13	43.57	..	3
3. Westland Power, Ltd.	38.03(n)	163.04(o)	4.34(c)	0.540(d)	0.664(e)	1.503	0.81(p)	28.79(r)	..	415.97(f)	0.350(g)	..	65.10(o)	0.084(j)	..	3.54(k)	0.443(l)	..	48.50(m)	..	..
Totals	02.04(n)	200.27(o)	8.20(e)	..	0.894(c)	..	5.41(p)	17.00(r)	..	332.18(f)	..	..	68.70(p)	..	..	3.90(k)	..	..	22.25(m)	..	..
GRAND TOTALS:	54.74	178.41	7.47	..	0.809	..	5.22	16.51	..	328.28	..	..	66.50	..	..	3.87	..	..	22.05	..	1952
Grand totals, 1952	40.40	163.68	7.35	..	0.858	..	4.70	15.18	..	304.58	..	..	67.52	..	..	4.00	..	..	22.08	..	1951
" 1951	44.07	149.86	0.78	..	0.842	..	4.59	13.20	..	308.51	..	..	62.70	..	..	4.54	..	..	23.39	..	1950
" 1948	40.44	130.57	0.55	..	0.850	..	4.40	14.70	..	206.59	..	..	63.10	..	..	4.80	..	..	23.60	..	1949
" 1948	37.17	130.92	0.02	..	0.850	..	4.00	13.74	..	207.20	..	..	62.29	..	..	4.02	..	..	23.71	..	1948
" 1947	34.11	121.97	0.16	..	0.850	..	3.97	13.83	..	310.80	..	..	62.55	..	..	4.99	..	..	22.21	..	1947
" 1946	31.42	111.38	5.00	..	0.850	..	3.88	13.38	..	308.00	..	..	59.58	..	..	5.13	..	..	21.42	..	1946
" 1945	30.64	102.91	5.28	..	0.850	..	4.07	13.31	..	300.89	..	..	55.01	..	..	3.42	..	..	23.48	..	1945
" 1944	28.95	98.80	5.20	..	0.846	..	3.96	12.51	..	208.67	..	..	55.17	..	..	5.71	..	..	25.36	..	1944

NOTES.— Returns for year ended 31 December 1951. (a) Excludes sundry private plants (Table X) which do not furnish returns. (b) Excludes loans redemption fund arrears. (c) Gross revenue, excluding bulk sales, rates, feed-back refunds, and standby charges. (d) Derived from items 7 and 11, Table XIII. (e) Derived from items 5 and 14, Table XIII. (f) Derived from items 3 and 15, Table XIII. (g) Derived from items 5 and 18, Table XIII. (h) Derived from items 8 and 18, Table XIII. (i) Derived from items 1 and 7, Table XIII. (j) Derived from items 2 and 7, Table XIII. (k) Excluding costs of generating feed-back. (l) Derived from items 1 and 13, Table XIII. (m) Derived from items 1 and 14, Table XIII. (n) Including costs of generating feed-back. (o) Derived from items 12 and 14, Table XIII. (p) Derived from items 12 and 14, Table XIII. (q) Derived from items 12 and 14, Table XIII. (r) Derived from items 12 and 14, Table XIII. (s) Derived from items 12 and 14, Table XIII. (t) Derived from items 12 and 14, Table XIII. (u) Derived from items 12 and 14, Table XIII. (v) Derived from items 12 and 14, Table XIII. (w) Derived from items 12 and 14, Table XIII. (x) Derived from items 12 and 14, Table XIII. (y) Derived from items 12 and 14, Table XIII. (z) Derived from items 12 and 14, Table XIII.

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

No.	Item.	Electric-power Boards.				Other Local Authorities.				Companies.	Total, all Supply Authorities.
		Hydro-electric Department.	City Councils.	Town Boards.	County Councils.	City Councils.	Town Boards.	County Councils.	Total.		
1	Population in area of supply	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
2	Number of consumers	52,320	1,284,550	4,840	98,380	8,050	664,100	8,450	2,009,420	8,450	2,009,420
3	Units generated	16,421	388,038	775	31,810	2,067	216,009	1,971	3,579,026,778	1,971	3,579,026,778
4	Units sold (retail)	3,294,732,135	74,076,569	46,885	27,443,606	1,603,486	167,256,101	42,961,973 ¹	2,841,457,351	42,961,973 ¹	2,841,457,351
5	Units sold (bulk plus retail)	116,377,156	1,737,369,251	3,208,440	106,395,345	8,587,515	886,422,171	42,845,565 ²	45,769	42,845,565 ²	45,769
6	Route-miles of lines (including service lines)	3,016,465,845	1,922,605,820	3,923	112,513,598	122	5,029	178		178	
		6,724	33,838								
7	Capital outlay	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)	£(N.Z.)
8	Capital outlay on transmission and distribution system ³	83,533,066	28,909,716	129,377	1,507,753	89,474	11,942,075	321,355	124,706,812	321,355	124,706,812
9	Revenue (retail sales)	31,355,340	27,955,080	68,506	1,283,262	56,907	9,288,526	123,722	68,722,668	123,722	68,722,668
10	Revenue (bulk sales)	425,432	6,812,754	15,778	492,463	39,306	3,286,706	56,750	10,581,042	56,750	10,581,042
11	Revenue (retail plus bulk sales)	4,262,437	309,425	26,247	6,520	39,306	3,319,473	17,292	4,621,921	17,292	4,621,921
12	Gross revenue (excluding rates)	4,687,869	7,122,179	15,778	499,003	74,042	15,203,563	74,811	15,765,858	74,811	15,765,858
13	Gross revenue (less revenue from bulk sales, feed-back, and standby charges)	4,746,995	6,980,608	17,037	517,954	42,640	3,593,440	57,519	10,879,651	57,519	10,879,651
14	Working costs (including costs of generating feed-back)	484,559	6,980,608	17,037	503,346	42,640	3,356,905	57,519	10,879,651	57,519	10,879,651
15	Working costs (excluding costs of generating feed-back)	3,097,444	5,058,740	14,581	348,651	41,769	2,626,936	48,747	10,366,158	48,747	10,366,158
16	Capital charges	2,835,070	5,012,220	14,581	342,567	41,769	2,460,121	48,747	10,366,158	48,747	10,366,158
17	Total costs (including costs of generating feed-back)	2,714,348 ⁴	1,625,984	1,541	91,606	5,595	585,119	11,372	4,936,823	11,372	4,936,823
18	Total costs (excluding costs of generating feed-back)	5,811,792	6,684,724	16,122	440,257	47,364	3,212,655	60,119	15,768,690	60,119	15,768,690
		5,549,418	6,638,204	16,122	434,173	47,364	3,045,240	60,119	15,292,981	60,119	15,292,981

NOTES.—¹ Includes generation by sundry private plants (see Table X).
² Includes bulk sales by sundry private plants (see Table X).
³ Includes plant, stocks, motor-vehicles, and tools.
⁴ Includes Loan Redemption Statutory Charge £109,000 (unpaid) see Table I A.

STATISTICAL

TABLE XIV—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1953

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.	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.			Horse-power.
STATE HYDRO-ELECTRIC DEPARTMENT															
1. North Island ..	52,320	30.49	13,686	2,264	15,950	5,463	34,100	104.12	496	515	105.31	108	66	0.19	1
2. South Island ..	52,320	..	14,147	2,274	16,421	5,943	37,101	42.01	4,672	6,352	29.29	2,076	2,870	3.72	2
Totals ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
POWER BOARDS															
1. Ashburton ..	20,230	31.65	5,671	732	6,403	3,575	12,826	63.04	4,089	8,068	63.86	271	207	4.89	1
2. Auckland ..	291,130	32.08	78,424	14,968	93,392	45,360	324,681	57.84	51,720	39,465	55.38	1,095	1,095	59.54	2
3. Banks Peninsula ..	3,760	41.30	1,465	88	1,553	759	4,737	51.81	764	1,200	49.20	216	170	6.20	3
4. Bay of Islands ..	34,090	20.38	6,055	896	6,949	3,295	20,631	54.44	4,021	3,098	57.86	1,522	2,300	4.28	4
5. Bay of Plenty ..	20,440	18.34	3,217	531	3,748	1,932	11,682	60.06	2,655	2,221	70.84	938	1,361	9.96	5
6. Buller ..	10,590	19.95	1,692	421	2,113	52	397	3.07	106	91	5.02	42	23	33.02	6
7. Cambridge ..	7,950	31.08	2,178	293	2,471	1,094	7,303	50.23	1,749	1,896	70.78	492	594	10.12	7
8. Central Hawke's Bay ..	12,080	27.50	2,815	507	3,322	2,111	13,212	74.99	1,777	2,028	53.49	293	291	4.18	8
9. Central Waikato ..	39,700	30.95	11,186	1,103	12,289	5,285	33,580	47.25	7,547	6,171	61.41	2,454	3,736	7.19	9
10. Dannevirke ..	12,670	30.58	3,274	601	3,875	1,733	11,197	52.93	1,834	1,693	47.33	584	685	8.75	10
11. Franklin ..	26,240	31.09	7,332	835	8,167	4,287	25,942	58.47	6,561	4,976	80.43	2,618	3,173	8.81	11
12. Golden Bay ..	4,250	27.79	1,039	142	1,181	465	2,487	44.75	591	493	50.04	230	240	5.64	12
13. Grey ..	20,700	33.15	5,886	976	6,862	2,330	15,144	39.59	1,949	1,805	50.30	108	116	18.74	13
14. Hawke's Bay ..	45,190	31.91	12,694	1,727	14,421	8,303	60,859	69.35	8,628	8,525	59.83	484	524	18.78	14
15. Horowhenua ..	26,340	44.33	9,589	2,087	11,676	5,057	33,142	52.74	5,434	3,967	46.54	878	1,133	11.87	15
16. Hutt Valley ..	99,210	29.03	26,087	2,739	28,796	16,723	113,799	64.18	17,710	13,473	61.50	154	188	30.72	16
17. King Country ..	10,630	17.64	1,765	110	1,875	479	3,177	27.14	547	752	29.17	224	310	4.09	17
18. Malvern ..	4,760	23.84	996	139	1,135	333	1,778	33.43	250	397	22.03	38	27	4.57	18
19. Manawatu-Oroua ..	25,920	28.64	6,713	711	7,424	3,785	25,418	56.38	4,569	3,353	61.54	209	261	9.31	19
20. Marlborough ..	20,480	28.01	4,852	885	5,737	1,501	11,137	30.94	1,239	1,043	21.60	234	326	14.15	20
21. North Auckland ..	30,350	30.43	8,239	998	9,237	4,225	25,032	51.28	6,471	5,168	70.06	2,809	3,855	4.07	21
22. North Canterbury ..	16,510	32.88	4,923	505	5,428	2,429	14,301	49.34	2,416	3,476	44.51	487	332	4.86	22
23. Otago ..	6,390	26.20	1,472	202	1,674	947	5,784	64.33	1,380	1,227	82.44	438	1,031	7.00	23
24. Otago Central ..	26,930	28.87	6,542	1,233	7,775	1,635	12,301	24.99	1,727	2,401	22.21	271	336	6.49	24
25. Poverty Bay ..	9,590	30.79	2,647	480	3,127	961	5,251	38.86	1,149	1,189	38.91	59	60	4.47	25
26. South Canterbury ..	37,320	25.02	7,646	1,692	9,338	4,202	30,405	54.96	4,265	4,464	45.67	430	368	15.64	26
27. South Taranaki ..	27,630	26.82	7,410	848	8,258	2,284	15,312	34.81	2,110	3,310	28.48	404	302	6.10	27
28. Springs-Ellesmere ..	17,270	31.31	4,438	969	5,407	2,258	15,199	50.88	3,406	3,495	62.99	1,187	1,655	12.78	28
29. Tairāpiti ..	14,490	28.25	3,808	285	4,093	2,622	16,204	62.91	2,780	3,259	61.18	469	384	9.01	29
30. Taranaki ..	9,290	30.14	2,857	443	3,300	1,586	10,884	41.65	2,672	2,175	65.28	1,746	2,902	6.98	30
31. Tairāpiti ..	22,100	31.31	6,227	801	7,028	4,790	29,242	75.71	5,331	4,849	77.05	639	698	5.97	31
32. Tairāpiti ..	16,790	27.05	3,740	801	4,541	3,049	14,728	81.52	3,064	2,712	67.47	1,179	1,470	7.17	32
33. Te Awamutu ..	4,350	16.34	489	222	711	394	2,527	80.57	380	379	53.45	6	4	8.80	33
34. Teviot ..	52,310	30.80	14,749	1,365	16,114	7,635	53,545	51.77	10,939	9,259	67.89	4,357	7,006	7.71	34
35. Thames Valley ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(For notes, see page 18.)

TABLE XIV—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1953—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. (?)	Total Kilo-watts.	Ratio. Number of Ranges to Domestic Consumers.	Number.	Total Kilo-watts.	Ratio. Number of Water-heaters to Total Consumers.	Number.	H.P.			
Power Boards—continued																
36. Waimere	29,820	29.57	5,752	1,015	6,747	3,618	21,234	63.12	3,846	3,973	57.00	590	612	11.46	36	
37. Waikarepa .. .	29,030	28.80	7,027	1,335	8,362	4,379	26,021	62.32	4,419	4,545	52.85	1,177	1,605	10.89	37	
38. Waikare .. .	4,050	23.85	823	143	966	521	3,043	63.30	656	499	67.91	268	303	2.91	38	
39. Waikare .. .	7,990	14.76	1,057	112	1,179	418	2,715	39.18	543	455	46.06	147	125	4.99	39	
40. Waikare .. .	19,740	33.59	5,572	1,058	6,630	3,395	21,875	60.93	3,421	3,679	51.60	183	121	9.55	40	
41. Waikare .. .	86,800	37.20	28,197	4,092	32,289	18,357	121,309	65.10	17,847	15,728	55.27	3,800	2,412	14.71	41	
42. Waikare .. .	13,710	24.91	2,850	565	3,415	1,911	12,775	67.05	2,098	1,837	61.43	640	888	8.19	42	
43. Waikare-Rangitikei .. .	53,210	29.21	13,813	2,314	16,127	6,021	40,002	43.59	6,080	5,610	41.42	1,542	1,202	12.96	43	
Totals	1,284,550	30.21	335,912	52,126	388,038	188,396	1,248,416	56.08	212,944	188,880	54.88	38,886	48,587	11.47		
City Councils																
1. Christchurch .. .	160,590	32.73	45,764	6,805	52,569	31,349	229,426	68.50	31,567	27,760	60.05	202	157	38.92	1	
2. Dunedin .. .	101,020	32.12	28,768	3,682	32,450	19,748	65,671	37.36	16,328	20,925	50.32	289	388	44.53	2	
3. Hamilton .. .	24,560	31.80	6,067	1,743	7,810	1,948	12,877	32.11	2,829	1,830	36.22			39.76	3	
4. Invercargill .. .	27,680	32.39	7,504	1,401	8,905	1,259	6,244	16.78	1,271	1,519	14.18			38.09	4	
5. Napier .. .	16,770	31.12	4,164	1,055	5,219	1,554	12,221	37.32	2,213	1,844	42.40			75.97	5	
6. Nelson .. .	15,990	31.76	4,170	905	5,075	1,228	10,400	29.45	2,606	2,490	51.35			73.83	6	
7. New Plymouth .. .	31,770	30.96	8,578	1,280	9,858	5,701	39,907	66.46	6,688	5,518	67.84			78.92	7	
8. Palmerston North .. .	31,820	32.83	8,953	1,493	10,446	4,542	27,807	50.73	5,568	3,843	53.30			24.22	8	
9. Timaru .. .	20,770	31.48	5,350	1,188	6,538	2,492	16,704	46.58	2,673	4,258	40.88			87.53	9	
10. Wellington .. .	121,800	34.83	34,336	8,091	42,427	8,975	57,925	24.10	16,646	19,975	39.23	34	82	58.44	10	
Totals	552,830	32.81	153,654	27,703	181,357	69,096	479,182	44.97	88,389	89,932	48.74	525	627	46.23		
Rovouh Councils																
1. Bluff .. .	2,290	33.76	625	148	773	199	861	31.84	117	150	15.14			62.51	1	
2. Inglewood .. .	1,590	38.87	450	168	618	289	1,500	53.11	229	225	37.06			38.63	2	
3. Kaparu .. .	2,320	33.58	662	117	779	368	2,475	55.59	374	413	48.01			65.45	3	
4. Lyttelton .. .	3,430	32.48	901	213	1,114	375	2,558	41.62	402	489	36.09			17.46	4	
5. Ohakune .. .	2,610	28.51	550	194	744	111	790	20.18	159	139	21.22			24.26	5	
6. Patea .. .	2,260	30.66	553	140	693	368	2,421	60.55	355	288	51.23			18.33	6	
7. Raehiri .. .	2,500	22.00	441	109	550	70	540	15.87	116	116	24.18			18.33	7	
8. Rangiora .. .	2,920	38.87	981	154	1,135	499	3,036	50.87	582	617	52.16			75.04	8	
9. Rolleston Electric Supply .. .	8,380	29.05	2,308	126	2,434	1,448	9,686	62.74	1,639	1,315	67.34			92.72	9	
10. Stratford .. .	21,960	31.50	5,678	1,240	6,918	2,319	15,409	40.84	2,673	2,225	38.64			56.07	10	
11. Taihape .. .	4,760	32.39	1,190	352	1,542	683	5,157	57.39	669	628	43.39			66.17	11	
12. Taumarunui .. .	2,870	33.50	866	208	1,074	186	1,296	31.74	187	189	23.55			42.33	12	
13. Taumarunui .. .	3,320	36.80	1,027	268	1,295	256	1,739	24.93	266	196	20.54			40.59	13	
14. Te Anau .. .	6,210	36.80	1,786	499	2,285	1,462	9,872	81.91	1,562	873	68.36			23.33	14	
15. Te Anau .. .	2,760	38.08	773	278	1,051	428	2,982	55.11	452	346	43.01			23.33	15	
16. Thames .. .	4,760	34.64	1,320	329	1,649	700	4,182	53.03	614	512	37.23			64.67	16	

(For notes, see page 18.)

TABLE XIV—STATISTICS OF POPULATION, CONSUMERS, ELECTRIC RANGES, WATER-HEATERS, AND MILKING-MACHINES FOR THE YEAR ENDED 31 MARCH 1953—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 for Route-table of Line. (?)	No.
			Domestic.	Commercial and Industrial.	Total.	Number. (?)	Total Kilowatts.	Ratio, Number of Ranges to Domestic Consumers.	Number.	Total Kilowatts.	Ratio, Number of Water-heaters to Total Number of Consumers.	Number.	Horse-power.			
Borough Councils—continued																
Warrage	Number 3,540	Per Cent. 30.99	Number 827	Number 270	Number 1,097	Number 633	kW. 4,254	Per Cent. 76.54	Number 631	kW. 405	Per Cent. 57.52	Number ..	H.P. ..	Number 41.40	17	
Waikato	3,350	31.37	869	182	1,051	407	2,668	46.84	423	322	40.25	26	22	61.19	18	
Waikare	4,240	31.51	1,016	320	1,336	628	3,810	61.81	667	408	49.93	16	8	33.19	19	
Whangarei	12,810	30.85	3,174	778	3,952	1,870	11,157	58.92	1,657	1,209	41.93	..	..	43.24	20
Totals ..	98,380	32.33	25,717	6,093	31,810	13,248	86,393	51.51	13,801	11,105	43.39	701	904	35.42	..	
Town Boards																
Kaponga	1,860	27.74	427	89	516	212	1,432	49.65	382	326	74.03	201	318	10.12	1	
Mangaweka	380	40.26	105	48	153	51	306	48.57	67	52	43.79	13	8	13.30	2	
Taupo	2,600	4.08	70	36	106	2	13	2.86	5	8	4.72	..	..	4.61	3
Totals ..	4,840	16.01	602	173	775	265	1,751	44.02	454	386	58.58	214	326	9.01	..	
Country Councils																
Heathcote	4,560	26.71	1,207	11	1,218	888	5,222	73.57	1,043	1,142	85.63	8	9	14.79	1	
Kahurangi	1,650	27.88	348	112	460	47	115	13.51	9	12	1.96	4	3	51.11	2	
Murchison	1,800	19.85	189	60	258	40	220	21.16	68	59	26.36	33	35	9.74	3	
Uawa	540	24.26	114	17	131	..	..	..	..	..	..	..	..	37.43	4
Totals ..	8,050	25.68	1,858	200	2,067	975	5,557	52.48	1,120	1,213	54.18	45	47	16.94	..	
Companies																
Kanieri Electric Ltd. ¹	3,160	34.53	864	227	1,091	340	2,364	39.35	287	296	36.31	..	..	34.36	1
Whitsons (N.Z.) Portland Cement	1,440	7.71	92	19	111	47	305	51.09	94	74	54.68	27	45	3.23	2	
Westland Power Ltd. ²	3,850	19.07	678	91	769	134	880	19.76	175	181	22.76	128	164	6.86	3	
Totals ..	8,450	23.33	1,634	337	1,971	521	3,549	31.88	556	551	28.21	155	209	11.07	..	
GRAND TOTALS	2,009,420	30.98	533,524	88,915	622,439	278,444	1,856,949	52.19	322,432	298,449	51.80	42,800	53,636	13.50	..	

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. (?) Returns for year ended 31 December 1952.

TABLE XVII—STATISTICS RELATING TO ELECTRICAL WIREMEN'S REGISTRATION BOARD FOR YEAR ENDED 31 MARCH 1953

(The figures in parentheses are for the previous year)

1. Number of Board Meetings : 13 (13)

Registrations—	During Year.		Total.	Current.
	Candidates.	Passed. Per Cent.			Highest Marks
Inspectors	30 (38)	1,130 (1,091)	479 (465)	
Electrical Wiremen	287 (270)	6,696 (6,409)	5,350 (5,552)	
Electrical servicers, Class "D"	40 (32)	371 (331)	335 (295)	
Electrical servicers, Class "E" (including radio)	43 (47)	556 (513)	556 (509)	
Electrical servicers, Class "E" (excluding radio)	2 (1)	43 (41)		
Limited registration	13* (19)	1,353† (1,340)	890 (875)	
Provisional licences	169 (112)	1,636 (1,467)		
Re-registration after periodical purging	21 (25)	350 (329)		
3. Examinations (one examination only)—				
Wiremen—				
Written	352 (527)	60 (52)	98 (91)	
Practical	307 (372)	64 (76)	94 (100)	
Servicemen—				
Written	175 (215)	62 (55)	98 (91)	
Practical	118 (207)	40 (56)	91 (94)	

4. Defective work reports, 18 (18) ; endorsements made, 0 (1) ; endorsements removed, nil.
5. Breach of Act reports, 60 (61) ; prosecutions authorized, 50 (39).

* Includes : Servicing calculating machines and like office appliances up to and including the plug top, † ; numerous-discharge-tube heaters, ‡ ; maintenance and repair of temperature control and picture telegraph equipment, 1 ; radio experimenters, 1 ; testing appliances manufactured for sale, 1 ; radio apparatus, 2 ; repair and maintenance of automatic telephone and impulse signalling equipment, 2.
† Includes : Radio servicemen registered prior to the introduction in 1939 of examinations for Electrical Servicemen Class "B" and includes other miscellaneous registrations.

1012 2171948 1949